# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/17/2008 10:50 AM<br>88<br><br>NEEL | 11/10/2008 3:35 PM<br>89<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/19/2008 9:30 AM<br>2832<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.70188333 | |
| Longitude | -- | -- | -- | | -75.88603056 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 94.8 |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | 7.9 | 12.7 | 12.1 |
| DO (mg/l) | -- | -- | -- | | | |
| Hardness (mg/l) | -- | -- | -- | | | 103 |
| ORP (mV) | -- | -- | -- | | | |
| MBAS (mg/l) | -- | -- | -- | < 0.2 | < 0.02 | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.3 | 6.26 | 7.4 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 149 | 127 | 154 |
| TSS (mg/l) | -- | -- | -- | < 5 | 35.5 | |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | | | |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | | | |
| Methane (µg/l) | -- | -- | 28000 | | | |
| n-Butane (µg/l) | -- | -- | -- | | | |
| Propane (µg/l) | -- | -- | -- | | | |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | < 0.0005 | < 0.0005 | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | < 0.0005 | < 0.0005 | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | < 0.001 | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | < 0.5 | < 0.5 | |
| o-Xylene (µg/l) | -- | -- | -- | | < 0.5 | |
| Oil & Grease (mg/l) | -- | -- | -- | < 5 | < 5 | |
| Toluene (mg/l) | 1 | -- | -- | < 0.0005 | < 0.0005 | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | 0.0005 | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | 4.88 | < 0.2 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | 0.186 | 0.134 |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | 31.6 |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.03 | 3.38 | 0.135 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.96 | 6.79 | 5.76 |
| Manganese (mg/l) | -- | 0.05 | -- | | 0.062 | < 0.01 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | 1.07 |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | 14.2 |
| Strontium (mg/l) | -- | -- | -- | | 0.13 | 0.129 |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**

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**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/17/2008 10:50 AM<br>88<br><br>NEEL | 11/10/2008 3:35 PM<br>89<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/19/2008 9:30 AM<br>2832<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 79.6 | |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | 278 | |
| Chloride (mg/l) | -- | 250 | -- | 20.6 | 20.8 | |
| DO (mg/l) | -- | -- | -- | | | |
| Hardness (mg/l) | -- | -- | -- | | 106 | |
| ORP (mV) | -- | -- | -- | | | |
| MBAS (mg/l) | -- | -- | -- | | | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.9 | 7 | |
| Sulfate (mg/l) | 250 | -- | -- | 13.1 | | |
| Sulfide (mg/l) | -- | -- | -- | | | |
| TDS (mg/l) | -- | 500 | -- | 166 | 202 | |
| TSS (mg/l) | -- | -- | -- | | | |
| Turbidity (ntu) | -- | -- | -- | 2.65 | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | 6 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | | | 86.6 |
| Ethene (µg/l) | -- | -- | -- | | | < 19.8 |
| iso-Butane (µg/l) | -- | -- | -- | | | |
| Methane (µg/l) | -- | -- | 28000 | | | 7,990 |
| n-Butane (µg/l) | -- | -- | -- | | | |
| Propane (µg/l) | -- | -- | -- | | | < 19.8 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | 0.224 | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | 0.14 | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | 31.9 | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | 0.284 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | 6.273 | |
| Manganese (mg/l) | -- | 0.05 | -- | | < 0.01 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | 1.137 | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | 12.9 | |
| Strontium (mg/l) | -- | -- | -- | | 0.135 | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.714 | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.141 | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.086 | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.377 | | |

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|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | < 0.002 | | |
| Beryllium (mg/l) | -- | -- | -- | < 0.001 | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | | |
| Nickel (mg/l) | -- | -- | -- | < 0.05 | | |
| Nitrate (mg/l) | -- | -- | -- | 3.37 | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | 0.04 | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | < 0.007 | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 9.24 | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/16/2008 12:00 AM<br>3148 | 12/16/2008 12:20 PM<br>2835<br><br>Pennsylvania Departm... | 1/12/2009 2:15 PM<br>2852<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | < 0.004 | | |
| Copper (mg/l) | -- | -- | -- | 0.018 | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | 0.032 | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/22/2009 5:15 PM<br>90<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Unknown<br>Well 1 | 1/29/2009 10:05 AM<br>2853<br><br>Pennsylvania Departm... | 2/12/2009 12:30 PM<br>91<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 47.74488889 | | 41.74497222 |
| Longitude | -- | -- | -- | -75.88369444 | | -75.88386111 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 58 | | 100 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | 21.5 | | 36.2 |
| DO (mg/l) | -- | -- | -- | | | |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | | | |
| MBAS (mg/l) | -- | -- | -- | < 0.2 | | < 0.2 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.83 | | 7.01 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 164 | | 156 |
| TSS (mg/l) | -- | -- | -- | < 2 | | < 2 |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | < 780 | 476 | 340 |
| Ethene (µg/l) | -- | -- | -- | | < 19.8 | |
| iso-Butane (µg/l) | -- | -- | -- | 0.83 | | 0.39 |
| Methane (µg/l) | -- | -- | 28000 | 19,000 | 14,200 | 15,000 |
| n-Butane (µg/l) | -- | -- | -- | 1.2 | | 0.29 |
| Propane (µg/l) | -- | -- | -- | 24 | < 19.8 | 6.6 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | < 0.0005 | | < 0.0005 |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | < 0.0005 | | < 0.0005 |
| m, p-Xylenes (mg/l) | -- | -- | -- | < 0.0005 | | < 0.001 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/22/2009 5:15 PM<br>90<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Unknown<br>Well 1 | 1/29/2009 10:05 AM<br>2853<br><br>Pennsylvania Departm... | 2/12/2009 12:30 PM<br>91<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | < 0.5 | | < 0.5 |
| o-Xylene (µg/l) | -- | -- | -- | < 0.5 | | < 0.5 |
| Oil & Grease (mg/l) | -- | -- | -- | < 5 | | < 5 |
| Toluene (mg/l) | 1 | -- | -- | < 0.0005 | | < 0.0005 |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.139 | | 0.089 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | 0.1 | | 0.12 |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.1 | | 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.22 | | 6.28 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | < 0.01 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.096 | | 0.115 |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/22/2009 5:15 PM<br>90<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Unknown<br>Well 1 | 1/29/2009 10:05 AM<br>2853<br><br>Pennsylvania Departm... | 2/12/2009 12:30 PM<br>91<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/22/2009 5:15 PM<br>90<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Unknown<br>Well 1 | 1/29/2009 10:05 AM<br>2853<br><br>Pennsylvania Departm... | 2/12/2009 12:30 PM<br>91<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/17/2009 12:55 PM | 4/14/2009 11:15 AM | 4/14/2009 11:15 AM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 2855 | 92 | 2840 |
| Sample Location: | | | | | Holding Tank | Kitchen Sink |
| Laboratory: | | | | Pennsylvania Departm... | Quantum Labs | Pennsylvania Departm... |
| Collection Company: | | | | | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.74497222 | 41.744972 |
| Longitude | -- | -- | -- | | -75.88386111 | -75.8838611 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 62.4 | | |
| LEL - Wellhead (%) | -- | -- | -- | | 2 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 242 | | |
| Chloride (mg/l) | -- | 250 | -- | 22.9 | 28.3 | |
| DO (mg/l) | -- | -- | -- | | 11.8 | |
| Hardness (mg/l) | -- | -- | -- | 91 | | |
| ORP (mV) | -- | -- | -- | | 201.2 | |
| MBAS (mg/l) | -- | -- | -- | | < 0.02 | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.1 | 7.03 | |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 152 | 50 | |
| TSS (mg/l) | -- | -- | -- | | < 2 | |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 31 | 50 | < 19.8 |
| Ethene (µg/l) | -- | -- | -- | 0 | | < 19.8 |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 5,620 | 2,200 | 311 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | 0 | 0.77 | < 19.8 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | < 0.0005 | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | < 0.0005 | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | < 0.001 | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/17/2009 12:55 PM<br>2855<br><br>Pennsylvania Departm... | 4/14/2009 11:15 AM<br>92<br>Holding Tank<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/14/2009 11:15 AM<br>2840<br>Kitchen Sink<br><br>Pennsylvania Departm...<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | < 0.5 | |
| o-Xylene (µg/l) | -- | -- | -- | | < 0.5 | |
| Oil & Grease (mg/l) | -- | -- | -- | | < 5 | |
| Toluene (mg/l) | 1 | -- | -- | | < 0.0005 | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.2 | < 0.1 | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | 0.096 | 0.093 | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | 28.4 | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.034 | 0.047 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 4.925 | 5.35 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.01 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | < 1 | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | 10.1 | | |
| Strontium (mg/l) | -- | -- | -- | 0.089 | 0.088 | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.034 | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | |

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Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/17/2009 12:55 PM<br>2855<br><br>Pennsylvania Departm... | 4/14/2009 11:15 AM<br>92<br>Holding Tank<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/14/2009 11:15 AM<br>2840<br>Kitchen Sink<br><br>Pennsylvania Departm...<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **3/17/2009 12:55 PM**<br>**2855**<br><br>**Pennsylvania Departm...** | **4/14/2009 11:15 AM**<br>**92**<br>**Holding Tank**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **4/14/2009 11:15 AM**<br>**2840**<br>**Kitchen Sink**<br><br>**Pennsylvania Departm...**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/14/2009 11:20 AM<br>2837<br>Holding Tank<br><br>Pennsylvania Departm...<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/14/2009 11:20 AM<br>93<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/30/2009 11:20 AM<br>2846<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74497222 | 41.744972 | |
| Longitude | -- | -- | -- | -75.88386111 | -75.8838611 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 85.8 |
| LEL - Wellhead (%) | -- | -- | -- | 2 | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 272 |
| Chloride (mg/l) | -- | 250 | -- | | | 20.3 |
| DO (mg/l) | -- | -- | -- | 11.8 | | |
| Hardness (mg/l) | -- | -- | -- | | | 93 |
| ORP (mV) | -- | -- | -- | 201.2 | | |
| MBAS (mg/l) | -- | -- | -- | | | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.03 | | 7.5 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | |
| TDS (mg/l) | -- | 500 | -- | | | 172 |
| TSS (mg/l) | -- | -- | -- | | | |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | < 19.8 | 14 | 115 |
| Ethene (µg/l) | -- | -- | -- | < 19.8 | | < 19.8 |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | < 7.9 | 640 | 3,120 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 19.8 | 0.17 | < 19.8 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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* If there is an aerator in the faucet it is removed prior to sampling.
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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/14/2009 11:20 AM<br>2837<br>Holding Tank<br><br>Pennsylvania Departm...<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/14/2009 11:20 AM<br>93<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/30/2009 11:20 AM<br>2846<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | < 0.2 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | | 0.101 |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | 28.4 |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | 0.104 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 5.285 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.01 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | < 1 |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | 15.5 |
| Strontium (mg/l) | -- | -- | -- | | | 0.105 |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/14/2009 11:20 AM<br>2837<br>Holding Tank<br><br>Pennsylvania Departm...<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/14/2009 11:20 AM<br>93<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/30/2009 11:20 AM<br>2846<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/14/2009 11:20 AM<br>2837<br>Holding Tank<br><br>Pennsylvania Departm...<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/14/2009 11:20 AM<br>93<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/30/2009 11:20 AM<br>2846<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/30/2009 11:30 AM<br>2841<br><br>Pennsylvania Departm... | 5/14/2009 2:44 PM<br>95<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/14/2009 3:05 PM<br>94<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.74494444 | 41.74494444 |
| Longitude | -- | -- | -- | | -75.88394444 | -75.88394444 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 85.6 | | |
| LEL - Wellhead (%) | -- | -- | -- | | 4 | 4 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 263 | | |
| Chloride (mg/l) | -- | 250 | -- | 17.2 | | |
| DO (mg/l) | -- | -- | -- | | 9.96 | 5.78 |
| Hardness (mg/l) | -- | -- | -- | 98 | | |
| ORP (mV) | -- | -- | -- | | 123.3 | 140.2 |
| MBAS (mg/l) | -- | -- | -- | | | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.8 | 7.86 | 6.93 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | |
| TDS (mg/l) | -- | 500 | -- | 164 | | |
| TSS (mg/l) | -- | -- | -- | | | |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 469 | 1.1 | 60 |
| Ethene (µg/l) | -- | -- | -- | < 19.8 | | |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 11,800 | 160 | 5,200 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 19.8 | < 0.05 | 0.5 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | <= 0.0005 | < 0.0005 |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | < 0.0005 | < 0.0005 |
| m, p-Xylenes (mg/l) | -- | -- | -- | | < 0.001 | < 0.001 |

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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/30/2009 11:30 AM<br>2841<br><br>Pennsylvania Departm... | 5/14/2009 2:44 PM<br>95<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/14/2009 3:05 PM<br>94<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | < 0.5 | < 0.5 |
| o-Xylene (µg/l) | -- | -- | -- | | < 0.5 | < 0.5 |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | < 0.0005 | < 0.0005 |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.366 | | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | 0.117 | | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | 30 | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.509 | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.684 | | |
| Manganese (mg/l) | -- | 0.05 | -- | 0.012 | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | 1.024 | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | 11.7 | | |
| Strontium (mg/l) | -- | -- | -- | 0.111 | | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/30/2009 11:30 AM<br>2841<br><br>Pennsylvania Departm... | 5/14/2009 2:44 PM<br>95<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/14/2009 3:05 PM<br>94<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/24/2009 9:15 AM<br>97<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2009 9:30 AM<br>96<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/15/2009 12:00 AM<br>2866<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.7449722 | 41.74497222 | |
| Longitude | -- | -- | -- | -75.88386111 | -75.88338611 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 73.4 |
| LEL - Wellhead (%) | -- | -- | -- | 4 | 4 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | | | 34 |
| DO (mg/l) | -- | -- | -- | 9.44 | 6.36 | |
| Hardness (mg/l) | -- | -- | -- | | | 108 |
| ORP (mV) | -- | -- | -- | 170.7 | 172.3 | |
| MBAS (mg/l) | -- | -- | -- | | | |
| pH (pH) | -- | 6.5-8.5 | -- | 8.12 | 7.16 | 7.5 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | |
| TDS (mg/l) | -- | 500 | -- | | | 186 |
| TSS (mg/l) | -- | -- | -- | | | |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0.97 | 66 | 0 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 52 | 2,300 | 2,090 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | 0.27 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/24/2009 9:15 AM<br>97<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2009 9:30 AM<br>96<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/15/2009 12:00 AM<br>2866<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.025 | < 0.025 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | |
| Manganese (mg/l) | -- | 0.05 | -- | | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | 0.0135 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | 0.116 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | < 0.02 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | 6.396 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/24/2009 9:15 AM<br>97<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2009 9:30 AM<br>96<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/15/2009 12:00 AM<br>2866<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | 0.118 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 32.6 |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.073 |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 14.5 |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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## Ex. 6 - Personal Privacy

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|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/15/2009 12:00 AM<br>2870<br><br>Pennsylvania Departm... | 7/20/2009 10:08 AM<br>99<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/20/2009 10:20 AM<br>98<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.74497222 | 41.74497222 |
| Longitude | -- | -- | -- | | -75.88386111 | -75.88386111 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 74.4 | | |
| LEL - Wellhead (%) | -- | -- | -- | | 100 | 100 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | 34.2 | | |
| DO (mg/l) | -- | -- | -- | | 9.02 | 6.03 |
| Hardness (mg/l) | -- | -- | -- | 109 | | |
| ORP (mV) | -- | -- | -- | | 150.2 | 150.5 |
| MBAS (mg/l) | -- | -- | -- | | | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.9 | 7.89 | 7.21 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | |
| TDS (mg/l) | -- | 500 | -- | 200 | | |
| TSS (mg/l) | -- | -- | -- | | | |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0 | 17 | < 220 |
| Ethene (µg/l) | -- | -- | -- | 0 | | |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 20.2 | 390 | 6,200 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | 0.19 | 2.2 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/15/2009 12:00 AM<br>2870<br><br>Pennsylvania Departm... | 7/20/2009 10:08 AM<br>99<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/20/2009 10:20 AM<br>98<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | |
| Manganese (mg/l) | -- | 0.05 | -- | | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.0113 | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.112 | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.02 | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.086 | | |

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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/15/2009 12:00 AM<br>2870<br><br>Pennsylvania Departm... | 7/20/2009 10:08 AM<br>99<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/20/2009 10:20 AM<br>98<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.112 | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.038 | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 14.5 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 33.7 | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/15/2009 12:00 AM<br>2870<br><br>Pennsylvania Departm... | 7/20/2009 10:08 AM<br>99<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/20/2009 10:20 AM<br>98<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74497222 | 41.74497222 | 41.74497222 |
| Longitude | -- | -- | -- | -75.8838611 | -75.88386111 | -75.88386111 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 100 | 100 | 100 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | | | 11 |
| DO (mg/l) | -- | -- | -- | 8.23 | 7.85 | 7.55 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 56.1 | 73.6 | 79.3 |
| MBAS (mg/l) | -- | -- | -- | | | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 8.04 | 7.33 | 8.27 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | 3 |
| TDS (mg/l) | -- | 500 | -- | | | 168 |
| TSS (mg/l) | -- | -- | -- | | | 2.4 |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 31 | 200 | 47 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 820 | 5,700 | 680 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0.14 | 0.65 | 0.99 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | < 0.0005 |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | < 0.0005 |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | < 0.001 |

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | < 0.5 |
| o-Xylene (µg/l) | -- | -- | -- | | | < 0.5 |
| Oil & Grease (mg/l) | -- | -- | -- | | | < 5 |
| Toluene (mg/l) | 1 | -- | -- | | | < 0.0005 |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | 0.158 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | | 0.124 |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | 0.108 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 6.81 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.118 |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/13/2009 10:23 AM<br>68<br>Kitchen sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/13/2009 10:38 AM<br>69<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2009 10:15 AM<br>101<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/13/2009 10:23 AM<br>68<br>Kitchen sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/13/2009 10:38 AM<br>69<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2009 10:15 AM<br>101<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/15/2009 10:40 AM<br>100<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/1/2009 12:00 AM<br>2873<br><br>Pennsylvania Departm... | 10/1/2009 12:00 AM<br>2877<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74497222 | | |
| Longitude | -- | -- | -- | -75.88386111 | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 90.2 | 92 |
| LEL - Wellhead (%) | -- | -- | -- | 100 | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | 12 | 13 | |
| DO (mg/l) | -- | -- | -- | 5.75 | | |
| Hardness (mg/l) | -- | -- | -- | | 103 | 104 |
| ORP (mV) | -- | -- | -- | 107.2 | | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.62 | 7.7 | 8 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | 3 | | |
| TDS (mg/l) | -- | 500 | -- | 168 | 168 | 170 |
| TSS (mg/l) | -- | -- | -- | 2.4 | | |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 810 | 802 | 96.1 |
| Ethene (µg/l) | -- | -- | -- | | 0 | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Methane (µg/l) | -- | -- | 28000 | 13,000 | 16,000 | 1,500 |
| n-Butane (µg/l) | -- | -- | -- | 0.13 | | |
| Propane (µg/l) | -- | -- | -- | 15 | 0 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | < 0.0005 | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | < 0.0005 | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | < 0.001 | | |

**Notes:**
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[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/15/2009 10:40 AM<br>100<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/1/2009 12:00 AM<br>2873<br><br>Pennsylvania Departm... | 10/1/2009 12:00 AM<br>2877<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | < 0.5 | | |
| o-Xylene (µg/l) | -- | -- | -- | < 0.5 | | |
| Oil & Grease (mg/l) | -- | -- | -- | < 5 | | |
| Toluene (mg/l) | 1 | -- | -- | < 0.0005 | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.16 | | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | 0.126 | | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.11 | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.95 | | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.116 | | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | < 0.2 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | 0.129 | 0.14 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | 0.127 | 0.106 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | 6.444 | 6.835 |

**Notes:**

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **9/15/2009 10:40 AM**<br>**100**<br>**Basement**<br><br>**Quantum Labs Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **10/1/2009 12:00 AM**<br>**2873**<br><br>**Pennsylvania Departm...** | **10/1/2009 12:00 AM**<br>**2877**<br><br>**Pennsylvania Departm...** |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | 0.01 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | 0.125 | 0.135 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | 30.6 | 30.3 |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | 1.124 | 1.048 |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 8.629 | 9.251 |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/15/2009 10:40 AM<br>100<br>Basement<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/1/2009 12:00 AM<br>2873<br><br>Pennsylvania Departm... | 10/1/2009 12:00 AM<br>2877<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/12/2009 10:44 AM<br>441<br>Kitchen Sink- Provided Water<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/3/2009 10:27 AM<br>604<br>OUTSIDE FAUCET- PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/7/2010 12:49 PM<br>540<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74497222 | 41.74497222 | 41.7449 |
| Longitude | -- | -- | -- | -75.88386111 | -75.88386111 | -75.88385 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 458 | 477 | 512 |
| Chloride (mg/l) | -- | 250 | -- | 60.9 | 47.7 | 71.4 |
| DO (mg/l) | -- | -- | -- | 8.52 | 8.39 | 9.29 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 558.7 | 120.9 | 142.5 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.4 | 6.91 | 7.53 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 243 | 280 | 272 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0.032 | 0.046 | 0.046 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2.4 | 0.68 | 1.7 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/12/2009 10:44 AM<br>441<br>Kitchen Sink- Provided Water<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/3/2009 10:27 AM<br>604<br>OUTSIDE FAUCET- PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/7/2010 12:49 PM<br>540<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | 0.071 | 0.099 | 0.086 |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.75 | 9.03 | 7.87 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.081 | 0.109 | 0.097 |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/12/2009 10:44 AM<br>441<br>Kitchen Sink- Provided Water<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/3/2009 10:27 AM<br>604<br>OUTSIDE FAUCET- PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/7/2010 12:49 PM<br>540<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/12/2009 10:44 AM<br>441<br>Kitchen Sink- Provided Water<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/3/2009 10:27 AM<br>604<br>OUTSIDE FAUCET-PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/7/2010 12:49 PM<br>540<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/2/2010 10:49 AM<br>634<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 3/6/2010 1:17 PM<br>780<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 4/13/2010 12:00 AM<br>2878<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74498 | 41.74497 | |
| Longitude | -- | -- | -- | -75.88385 | -75.88389 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 64.8 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | 0 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 555 | 492 | |
| Chloride (mg/l) | -- | 250 | -- | 90.7 | 61.8 | 26.3 |
| DO (mg/l) | -- | -- | -- | 9.6 | 8.97 | |
| Hardness (mg/l) | -- | -- | -- | | | 93 |
| ORP (mV) | -- | -- | -- | 149.7 | 131.7 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.94 | 6.96 | 7 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | 3 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 280 | 270 | |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | < 0.025 | < 0.025 | 0 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 0.6 | 0.27 | 0 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/2/2010 10:49 AM<br>634<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 3/6/2010 1:17 PM<br>780<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 4/13/2010 12:00 AM<br>2878<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 250 | < 100 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | 0.097 | 0.097 | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | 0.064 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 9.56 | 9.27 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.109 | 0.111 | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | 0.0218 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | 0.234 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | 0.035 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | 4.898 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/2/2010 10:49 AM<br>634<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 3/6/2010 1:17 PM<br>780<br>OUTSIDE SPIGOT - PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 4/13/2010 12:00 AM<br>2878<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | 0.263 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 29 |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.172 |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 12.7 |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/25/2010 7:23 PM<br>1087<br>OUTSIDE SPIGOT, PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 4/27/2010 12:00 AM<br>2903<br><br>Pennsylvania Departm... | 5/10/2010 2:20 PM<br>1952<br>HOSE OUTSIDE (WELL)<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74492 | | |
| Longitude | -- | -- | -- | -75.88393 | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 75 | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 520 | | |
| Chloride (mg/l) | -- | 250 | -- | 42.8 | 18.4 | |
| DO (mg/l) | -- | -- | -- | 8.63 | | |
| Hardness (mg/l) | -- | -- | -- | | 96 | |
| ORP (mV) | -- | -- | -- | 150.8 | | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.78 | 7 | |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | |
| TDS (mg/l) | -- | 500 | -- | 285 | 168 | |
| TSS (mg/l) | -- | -- | -- | < 2 | | |
| Turbidity (ntu) | -- | -- | -- | < 1 | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0.35 | 0 | |
| Ethene (µg/l) | -- | -- | -- | | 0 | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Methane (µg/l) | -- | -- | 28000 | 17 | 0 | |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | 0 | |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/25/2010 7:23 PM<br>1087<br>OUTSIDE SPIGOT, PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 4/27/2010 12:00 AM<br>2903<br><br>Pennsylvania Departm... | 5/10/2010 2:20 PM<br>1952<br>HOSE OUTSIDE (WELL)<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | 0.101 | | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 10.3 | | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.117 | | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | 6.05 | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | 0.284 | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | 10.6 | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | 6.148 | |

**Notes:**

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* If there is an aerator in the faucet it is removed prior to sampling.
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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/25/2010 7:23 PM<br>1087<br>OUTSIDE SPIGOT, PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 4/27/2010 12:00 AM<br>2903<br><br>Pennsylvania Departm... | 5/10/2010 2:20 PM<br>1952<br>HOSE OUTSIDE (WELL)<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | 0.362 | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | 173 | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | 2.02 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | 28.4 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | 2.676 | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 14.7 | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/25/2010 7:23 PM<br>1087<br>OUTSIDE SPIGOT, PROVIDED WATER<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 4/27/2010 12:00 AM<br>2903<br><br>Pennsylvania Departm... | 5/10/2010 2:20 PM<br>1952<br>HOSE OUTSIDE (WELL)<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/14/2010 12:14 PM<br>11840<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 5/14/2010 12:39 PM<br>11838<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 5/14/2010 1:08 PM<br>798<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | | | 22.6 |
| DO (mg/l) | -- | -- | -- | | | |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | | | |
| MBAS (mg/l) | -- | -- | -- | | | 0.054 |
| pH (pH) | -- | 6.5-8.5 | -- | | | |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | < 1 |
| TDS (mg/l) | -- | 500 | -- | | | 136 |
| TSS (mg/l) | -- | -- | -- | | | 4 |
| Turbidity (ntu) | -- | -- | -- | | | 9 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 4.2 | 2.6 | 4.4 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 150 | 90 | 150 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/14/2010 12:14 PM<br>11840<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 5/14/2010 12:39 PM<br>11838<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 5/14/2010 1:08 PM<br>798<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | 0.284 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | | | 0.126 |
| Boron (mg/l) | -- | -- | -- | | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | 0.385 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 5.15 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.134 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.0003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | 0.119 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | 4.99 |

**Notes:**

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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/14/2010 12:14 PM<br>11840<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 5/14/2010 12:39 PM<br>11838<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 5/14/2010 1:08 PM<br>798<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | 0.13 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **5/14/2010 12:14 PM**<br>**11840**<br>**After Treatment**<br><br>**Quantum Labs**<br>**Quantum**<br><br>**Well 1** | **5/14/2010 12:39 PM**<br>**11838**<br>**After Treatment**<br><br>**Quantum Labs**<br>**Quantum**<br><br>**Well 1** | **5/14/2010 1:08 PM**<br>**798**<br>**After Treatment**<br><br>**Quantum Labs**<br>**Quantum**<br><br>**Well 1** |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/14/2010 1:08 PM<br>799<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br><br>well 1 | 5/20/2010 7:08 PM<br>839<br>Basement before treatment system<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/20/2010 7:40 PM<br>840<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.744844 | 41.7449 | 41.744899 |
| Longitude | -- | -- | -- | -75.883759 | -75.88385 | -75.88385 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | | | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 283 |
| Chloride (mg/l) | -- | 250 | -- | 23 | | 18.6 |
| DO (mg/l) | -- | -- | -- | | | 11.85 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | | | 172.4 |
| MBAS (mg/l) | -- | -- | -- | < 0.02 | | < 0.02 |
| pH (pH) | -- | 6.5-8.5 | -- | | | 7.46 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 156 | | 180 |
| TSS (mg/l) | -- | -- | -- | 60 | | 8 |
| Turbidity (ntu) | -- | -- | -- | 7 | | 5.65 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 41 | | 1.7 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 1,300 | | 78 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/14/2010 1:08 PM<br>799<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br><br>well 1 | 5/20/2010 7:08 PM<br>839<br>Basement before treatment system<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/20/2010 7:40 PM<br>840<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.326 | | 0.155 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.003 | | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | 0.125 | | 0.104 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | | 0.127 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.438 | | 0.162 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.75 | | 4.26 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.123 | | 0.139 |
| Thallium (mg/l) | -- | -- | -- | < 0.002 | | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.116 | | 0.095 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | | 0.12 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.55 | | 4.1 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/14/2010 1:08 PM<br>799<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br><br>well 1 | 5/20/2010 7:08 PM<br>839<br>Basement before treatment system<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/20/2010 7:40 PM<br>840<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.121 | | 0.131 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | < 2.2 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/14/2010 1:08 PM<br>799<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br><br>well 1 | 5/20/2010 7:08 PM<br>839<br>Basement before treatment system<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/20/2010 7:40 PM<br>840<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.744896 |
| Longitude | -- | -- | -- | | | -75.88402 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 76.6 | 83.6 | |
| LEL - Wellhead (%) | -- | -- | -- | | | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 240 |
| Chloride (mg/l) | -- | 250 | -- | 19.3 | 18.1 | 23.6 |
| DO (mg/l) | -- | -- | -- | | | 11.68 |
| Hardness (mg/l) | -- | -- | -- | 104 | 104 | |
| ORP (mV) | -- | -- | -- | | | 111.7 |
| MBAS (mg/l) | -- | -- | -- | | | 0.377 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.2 | 7.6 | 7.47 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 160 | | 133 |
| TSS (mg/l) | -- | -- | -- | | | < 2 |
| Turbidity (ntu) | -- | -- | -- | | | 3 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0 | 27.4 | 40 |
| Ethene (µg/l) | -- | -- | -- | 0 | 0 | |
| iso-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 6,670 | 3,190 | 3,000 |
| n-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | 0 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/27/2010 12:00 AM<br>2908<br><br>Pennsylvania Departm... | 5/27/2010 12:00 AM<br>2912<br><br>Pennsylvania Departm... | 5/27/2010 10:10 AM<br>883<br>HOSE AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | | | 0.121 |
| Boron (mg/l) | -- | -- | -- | | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | 0.064 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 5.72 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.118 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.177 | 0.0445 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.104 | 0.119 | 0.117 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.291 | 0.071 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.77 | 5.809 | 5.59 |

**Notes:**

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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/27/2010 12:00 AM<br>2908<br><br>Pennsylvania Departm... | 5/27/2010 12:00 AM<br>2912<br><br>Pennsylvania Departm... | 5/27/2010 10:10 AM<br>883<br>HOSE AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.012 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.1 | 0.123 | 0.119 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | < 2.1 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.084 | 1.061 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 7.848 | 10.3 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 31.9 | 32.1 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/27/2010 12:00 AM<br>2908<br><br>Pennsylvania Departm... | 5/27/2010 12:00 AM<br>2912<br><br>Pennsylvania Departm... | 5/27/2010 10:10 AM<br>883<br>HOSE AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/27/2010 10:22 AM<br>882<br>BEFORE SYSTEM FROM HOSE<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/1/2010 4:30 PM<br>905<br>AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 6/1/2010 5:00 PM<br>904<br>BEFORE SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74496 | 41.744844 | 41.74499 |
| Longitude | -- | -- | -- | -75.88402 | -75.883759 | -75.55385 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 238 | 250 | 238 |
| Chloride (mg/l) | -- | 250 | -- | 23.7 | 20.4 | 20.5 |
| DO (mg/l) | -- | -- | -- | 9.87 | 10.24 | 8.03 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 120.9 | 137.6 | 156.9 |
| MBAS (mg/l) | -- | -- | -- | < 0.02 | 0.02 | < 0.02 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.07 | 7.28 | 6.89 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 133 | 147 | 133 |
| TSS (mg/l) | -- | -- | -- | 3.3 | 4.8 | 2.6 |
| Turbidity (ntu) | -- | -- | -- | 6 | 10 | 5 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 37 | 17 | 48 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 4,800 | 720 | 2,700 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/27/2010 10:22 AM<br>882<br>BEFORE SYSTEM FROM HOSE<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/1/2010 4:30 PM<br>905<br>AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 6/1/2010 5:00 PM<br>904<br>BEFORE SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.271 | 0.283 | 0.192 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.003 | < 0.003 | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | 0.106 | 0.116 | 0.094 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.291 | 0.371 | 0.244 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.78 | 5.82 | 5.66 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.098 | 0.112 | 0.088 |
| Thallium (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.235 | 0.404 | 0.173 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | < 0.003 | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.099 | 0.094 | 0.085 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.122 | 0.23 | 0.091 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.8 | 5.67 | 5.54 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/27/2010 10:22 AM<br>882<br>BEFORE SYSTEM FROM HOSE<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/1/2010 4:30 PM<br>905<br>AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 6/1/2010 5:00 PM<br>904<br>BEFORE SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.099 | 0.111 | 0.086 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.3 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/2/2010 12:00 AM<br>2915<br><br>Pennsylvania Departm... | 6/2/2010 12:00 AM<br>2920<br><br>Pennsylvania Departm... | 6/3/2010 2:13 PM<br>917<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.74502 |
| Longitude | -- | -- | -- | | | -75.88393 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 85.8 | 85.6 | |
| LEL - Wellhead (%) | -- | -- | -- | | | 100 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 248 |
| Chloride (mg/l) | -- | 250 | -- | 16 | 16.2 | 15.1 |
| DO (mg/l) | -- | -- | -- | | | 6.12 |
| Hardness (mg/l) | -- | -- | -- | 105 | 101 | |
| ORP (mV) | -- | -- | -- | | | 149.4 |
| MBAS (mg/l) | -- | -- | -- | | | < 0.02 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.4 | 7.7 | 7.29 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | 1 |
| TDS (mg/l) | -- | 500 | -- | 122 | 170 | 136 |
| TSS (mg/l) | -- | -- | -- | | | < 2 |
| Turbidity (ntu) | -- | -- | -- | | | 3 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 292 | 28.3 | 630 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 11,100 | 896 | 13,000 |
| n-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | | | 1.4 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/2/2010 12:00 AM<br>2915<br><br>Pennsylvania Departm... | 6/2/2010 12:00 AM<br>2920<br><br>Pennsylvania Departm... | 6/3/2010 2:13 PM<br>917<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | 0.121 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | | | 0.118 |
| Boron (mg/l) | -- | -- | -- | | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | 0.134 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 6.35 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.115 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.0885 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.111 | 0.112 | 0.109 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.191 | 0.16 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.067 | 5.662 | 6 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/2/2010 12:00 AM<br>2915<br><br>Pennsylvania Departm... | 6/2/2010 12:00 AM<br>2920<br><br>Pennsylvania Departm... | 6/3/2010 2:13 PM<br>917<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.111 | 0.12 | 0.107 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | < 2 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | < 1 | < 0.01 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 7.342 | 11.8 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 32.2 | 31.2 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/2/2010 12:00 AM<br>2915<br><br>Pennsylvania Departm... | 6/2/2010 12:00 AM<br>2920<br><br>Pennsylvania Departm... | 6/3/2010 2:13 PM<br>917<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/3/2010 2:27 PM<br>918<br>AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 6/9/2010 12:00 AM<br>2924<br><br>Pennsylvania Departm... | 6/10/2010 6:42 PM<br>952<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74502 | | 41.744844 |
| Longitude | -- | -- | -- | -75.88393 | | -75.883759 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 76 | |
| LEL - Wellhead (%) | -- | -- | -- | 100 | | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 252 | | 268 |
| Chloride (mg/l) | -- | 250 | -- | 15.3 | 22.1 | 23.5 |
| DO (mg/l) | -- | -- | -- | 8.33 | | 7.89 |
| Hardness (mg/l) | -- | -- | -- | | 103 | |
| ORP (mV) | -- | -- | -- | 142.2 | | 147.2 |
| MBAS (mg/l) | -- | -- | -- | < 0.02 | | < 0.02 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.39 | 7 | 6.83 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | 1 | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 128 | 164 | 147 |
| TSS (mg/l) | -- | -- | -- | < 2 | | 3.2 |
| Turbidity (ntu) | -- | -- | -- | 4 | | 2.9 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 120 | 0 | 30 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2,200 | 154 | 1,000 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0.27 | | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/3/2010 2:27 PM<br>918<br>AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 6/9/2010 12:00 AM<br>2924<br><br>Pennsylvania Departm... | 6/10/2010 6:42 PM<br>952<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.141 | | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.003 | | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | 0.118 | | 0.111 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.154 | | 0.063 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.15 | | 5.6 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.118 | | 0.115 |
| Thallium (mg/l) | -- | -- | -- | < 0.002 | | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | 0.0657 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.108 | 0.104 | 0.105 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | 0.087 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.94 | 5.828 | 5.36 |

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|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.112 | 0.101 | 0.109 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | 31.6 | |

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | < 1 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 9.22 | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/10/2010 7:02 PM<br>953<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 6/14/2010 10:50 AM<br>994<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/14/2010 11:00 AM<br>995<br>AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.744844 | | 41.744844 |
| Longitude | -- | -- | -- | -75.883759 | | -75.883759 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 260 | 266 | 272 |
| Chloride (mg/l) | -- | 250 | -- | 21.5 | 16.7 | 17.2 |
| DO (mg/l) | -- | -- | -- | 6.1 | 3.62 | 7.46 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 143.9 | 150.5 | 145.8 |
| MBAS (mg/l) | -- | -- | -- | < 0.02 | < 0.02 | < 0.02 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.02 | 7.06 | 7.15 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 160 | 180 | 147 |
| TSS (mg/l) | -- | -- | -- | 2.8 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 3.23 | 2 | 2 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 250 | 280 | 110 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 6,300 | 11,000 | 4,100 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0.22 | 0.18 | 0.071 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/10/2010 7:02 PM<br>953<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 6/14/2010 10:50 AM<br>994<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/14/2010 11:00 AM<br>995<br>AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 110 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.003 | < 0.003 | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | 0.109 | 0.124 | 0.121 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.073 | 0.066 | 0.053 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.23 | 6.1 | 6.03 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.111 | 0.128 | 0.126 |
| Thallium (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | < 0.003 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.103 | 0.112 | 0.114 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.06 | 5.87 | 5.71 |

**Notes:**

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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/10/2010 7:02 PM<br>953<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 6/14/2010 10:50 AM<br>994<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/14/2010 11:00 AM<br>995<br>AFTER SYSTEM<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.106 | 0.118 | 0.124 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.744844 |
| Longitude | -- | -- | -- | | | -75.883759 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 73.4 | 86.8 | |
| LEL - Wellhead (%) | -- | -- | -- | | | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 234 |
| Chloride (mg/l) | -- | 250 | -- | 25.7 | 21.8 | 17.5 |
| DO (mg/l) | -- | -- | -- | | | 6.83 |
| Hardness (mg/l) | -- | -- | -- | 106 | 101 | |
| ORP (mV) | -- | -- | -- | | | 162.8 |
| MBAS (mg/l) | -- | -- | -- | | | < 0.02 |
| pH (pH) | -- | 6.5-8.5 | -- | 7 | 7.3 | 6.85 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | < 1 |
| TDS (mg/l) | -- | 500 | -- | | 180 | 150 |
| TSS (mg/l) | -- | -- | -- | | | < 2 |
| Turbidity (ntu) | -- | -- | -- | | | 4 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 93.2 | 39.9 | 200 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 5,040 | 2,380 | 6,100 |
| n-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | | | 0.15 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/15/2010 12:00 AM<br>2928<br><br>Pennsylvania Departm... | 6/15/2010 12:00 AM<br>2933<br><br>Pennsylvania Departm... | 6/17/2010 8:05 PM<br>1003<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | | | 0.112 |
| Boron (mg/l) | -- | -- | -- | | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | 0.09 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 5.88 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.11 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.042 | 0.0359 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.114 | 0.113 | 0.096 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.046 | 0.044 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.915 | 5.757 | 5.42 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/15/2010 12:00 AM<br>2928<br><br>Pennsylvania Departm... | 6/15/2010 12:00 AM<br>2933<br><br>Pennsylvania Departm... | 6/17/2010 8:05 PM<br>1003<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.107 | 0.117 | 0.098 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | < 2.2 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | < 1 | 1.013 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 9.84 | 12.3 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 32.5 | 30.8 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/15/2010 12:00 AM<br>2928<br><br>Pennsylvania Departm... | 6/15/2010 12:00 AM<br>2933<br><br>Pennsylvania Departm... | 6/17/2010 8:05 PM<br>1003<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/17/2010 8:35 PM<br>1002<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2010 12:00 AM<br>2940<br><br>Pennsylvania Departm... | 6/24/2010 12:00 AM<br>2944<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74492 | | |
| Longitude | -- | -- | -- | -75.88393 | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 85.6 | 83.2 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 249 | | |
| Chloride (mg/l) | -- | 250 | -- | 16.5 | 21.3 | 20.9 |
| DO (mg/l) | -- | -- | -- | 8.95 | | |
| Hardness (mg/l) | -- | -- | -- | | 112 | 113 |
| ORP (mV) | -- | -- | -- | 148.3 | | |
| MBAS (mg/l) | -- | -- | -- | < 0.02 | | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.13 | 7.8 | 7.5 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | |
| TDS (mg/l) | -- | 500 | -- | 150 | 176 | 164 |
| TSS (mg/l) | -- | -- | -- | < 2 | | |
| Turbidity (ntu) | -- | -- | -- | 3 | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 76 | 0 | 29.5 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Methane (µg/l) | -- | -- | 28000 | 3,000 | 902 | 5,910 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | | |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/17/2010 8:35 PM<br>1002<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2010 12:00 AM<br>2940<br><br>Pennsylvania Departm... | 6/24/2010 12:00 AM<br>2944<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | | |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.003 | | |
| Barium (mg/l) | 2 | -- | -- | 0.113 | | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.058 | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.61 | | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.118 | | |
| Thallium (mg/l) | -- | -- | -- | < 0.002 | | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | 0.0317 | 0.0345 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.108 | 0.118 | 0.16 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | 0.049 | 0.066 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.49 | 6.158 | 6.252 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/17/2010 8:35 PM<br>1002<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2010 12:00 AM<br>2940<br><br>Pennsylvania Departm... | 6/24/2010 12:00 AM<br>2944<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | 0.027 | 0.012 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.113 | 0.125 | 0.171 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.3 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | 34.8 | 34.9 |

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | 1.14 | 1.152 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 13.9 | 11.2 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.7449722 | 41.74497222 | 41.745 |
| Longitude | -- | -- | -- | -75.88386111 | -75.88386111 | -75.88387 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 4 | 4 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | 419 | 260 |
| Chloride (mg/l) | -- | 250 | -- | 18.4 | 17.8 | 17.4 |
| DO (mg/l) | -- | -- | -- | 6.36 | 9.44 | 8.02 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 172.3 | 170.7 | 149.9 |
| MBAS (mg/l) | -- | -- | -- | < 0.04 | < 0.04 | 0.036 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.16 | 8.12 | 7.1 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 133 | 173 | 140 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 2 | 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 110 | 35 | 51 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 4,800 | 1,900 | 1,700 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0.057 | 0.066 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/24/2010 3:45 PM<br>1070<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2010 4:11 PM<br>1071<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 7/1/2010 7:40 PM<br>1112<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.003 | < 0.003 | |
| Barium (mg/l) | 2 | -- | -- | 0.14 | 0.135 | 0.105 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.06 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.9 | 5.84 | 5.83 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.139 | 0.138 | 0.102 |
| Thallium (mg/l) | -- | -- | -- | < 0.0005 | < 0.0005 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | < 0.003 | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.139 | 0.135 | 0.104 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.86 | 5.9 | 5.79 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/24/2010 3:45 PM<br>1070<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2010 4:11 PM<br>1071<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 7/1/2010 7:40 PM<br>1112<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.138 | 0.14 | 0.105 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0005 | < 0.0005 | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/24/2010 3:45 PM<br>1070<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/24/2010 4:11 PM<br>1071<br>Kitchen Sink<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 7/1/2010 7:40 PM<br>1112<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/1/2010 7:50 PM<br>1111<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/8/2010 12:00 AM<br>2949<br><br>Pennsylvania Departm... | 7/8/2010 12:00 AM<br>2954<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.745 | | |
| Longitude | -- | -- | -- | -75.88387 | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 86.6 | 81.8 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 266 | | |
| Chloride (mg/l) | -- | 250 | -- | 19.4 | 15.9 | 17.5 |
| DO (mg/l) | -- | -- | -- | 2.67 | | |
| Hardness (mg/l) | -- | -- | -- | | 111 | 110 |
| ORP (mV) | -- | -- | -- | 161.9 | | |
| MBAS (mg/l) | -- | -- | -- | < 0.02 | | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.81 | 7.2 | 7.5 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | |
| TDS (mg/l) | -- | 500 | -- | 152 | 166 | 164 |
| TSS (mg/l) | -- | -- | -- | < 2 | | |
| Turbidity (ntu) | -- | -- | -- | 1 | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 190 | 265 | 0 |
| Ethene (µg/l) | -- | -- | -- | | 0 | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Methane (µg/l) | -- | -- | 28000 | 8,900 | 10,700 | 332 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | 0 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/1/2010 7:50 PM<br>1111<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/8/2010 12:00 AM<br>2949<br><br>Pennsylvania Departm... | 7/8/2010 12:00 AM<br>2954<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | 0.111 | | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.75 | | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.114 | | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | 0.0271 | 0.0226 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.108 | 0.096 | 0.1 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | 0.039 | 0.031 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.65 | 6.171 | 5.998 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.01 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.112 | 0.104 | 0.106 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | 34.3 | 34.2 |

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Ex. 6 - Personal Privacy

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|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | < 1 | < 1 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 8.698 | 8.25 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/8/2010 5:00 PM<br>1196<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/8/2010 5:10 PM<br>1197<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 7/13/2010 12:00 AM<br>2959<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74490615 | 41.74490615 | |
| Longitude | -- | -- | -- | -75.88365171 | -75.88365171 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 97.2 |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 294 | 275 | |
| Chloride (mg/l) | -- | 250 | -- | 16.6 | 15.6 | 14.6 |
| DO (mg/l) | -- | -- | -- | 5.83 | 7.05 | |
| Hardness (mg/l) | -- | -- | -- | | | 102 |
| ORP (mV) | -- | -- | -- | 170.8 | 163 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.1 | 5.67 | 8.1 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 150 | 140 | 176 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | | 3 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | | 14 | 10.6 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 300 | 340 | 1,190 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/8/2010 5:00 PM<br>1196<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/8/2010 5:10 PM<br>1197<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 7/13/2010 12:00 AM<br>2959<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | < 100 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | < 0.1 | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | |
| Manganese (mg/l) | -- | 0.05 | -- | | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | | 0.0268 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | < 0.003 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.103 | 0.104 | 0.137 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.025 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.026 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.28 | 5.85 | 6.629 |

**Notes:**

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[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/8/2010 5:00 PM<br>1196<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/8/2010 5:10 PM<br>1197<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 7/13/2010 12:00 AM<br>2959<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.121 | 0.111 | 0.15 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | < 2.1 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 29.8 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/8/2010 5:00 PM<br>1196<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/8/2010 5:10 PM<br>1197<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>well 1 | 7/13/2010 12:00 AM<br>2959<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.05 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 12.4 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/13/2010 12:00 AM<br>2963<br><br>Pennsylvania Departm... | 7/15/2010 2:00 PM<br>11849<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 7/15/2010 2:35 PM<br>11851<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 98.2 | | |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | 16.3 | 16.4 | 17.4 |
| DO (mg/l) | -- | -- | -- | | | |
| Hardness (mg/l) | -- | -- | -- | 101 | | |
| ORP (mV) | -- | -- | -- | | | |
| MBAS (mg/l) | -- | -- | -- | | < 0.04 | < 0.04 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.9 | | |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 176 | 155 | 155 |
| TSS (mg/l) | -- | -- | -- | | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | | 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0 | 4.5 | 31 |
| Ethene (µg/l) | -- | -- | -- | 0 | | |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 3,030 | 570 | 3,300 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | < 0.0005 | < 0.00005 |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | < 0.0005 | < 0.00005 |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/13/2010 12:00 AM<br>2963<br><br>Pennsylvania Departm... | 7/15/2010 2:00 PM<br>11849<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 7/15/2010 2:35 PM<br>11851<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | < 0.0005 | < 0.00005 |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | < 0.0005 | < 0.00005 |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | 0.0008 | 0.0006 |
| Barium (mg/l) | 2 | -- | -- | | 0.117 | 0.112 |
| Boron (mg/l) | -- | -- | -- | | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | 5.76 | 6.06 |
| Manganese (mg/l) | -- | 0.05 | -- | | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | 0.126 | 0.113 |
| Thallium (mg/l) | -- | -- | -- | | < 0.0005 | < 0.0005 |
| Vanadium (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.0783 | < 0.1 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | < 0.003 | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.131 | 0.113 | 0.111 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.038 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.708 | 5.65 | 6.04 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/13/2010 12:00 AM<br>2963<br><br>Pennsylvania Departm... | 7/15/2010 2:00 PM<br>11849<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 7/15/2010 2:35 PM<br>11851<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.133 | 0.123 | 0.112 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | < 0.002 | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | < 2 | < 2.1 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.048 | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 9.07 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 29.4 | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/13/2010 12:00 AM<br>2963<br><br>Pennsylvania Departm... | 7/15/2010 2:00 PM<br>11849<br>After Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 | 7/15/2010 2:35 PM<br>11851<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br><br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | < 0.1 | < 0.1 |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/21/2010 12:00 AM<br>2966<br><br>Pennsylvania Departm... | 7/21/2010 12:00 AM<br>2972<br><br>Pennsylvania Departm... | 7/22/2010 5:56 PM<br>1450<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.74492 |
| Longitude | -- | -- | -- | | | -75.88393 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 87 | 90 | |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 322 |
| Chloride (mg/l) | -- | 250 | -- | 16.4 | 17.2 | 17.3 |
| DO (mg/l) | -- | -- | -- | | | 7.35 |
| Hardness (mg/l) | -- | -- | -- | 108 | 104 | |
| ORP (mV) | -- | -- | -- | | | 83.2 |
| MBAS (mg/l) | -- | -- | -- | | | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.5 | 7.9 | 7.81 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 178 | 134 | 160 |
| TSS (mg/l) | -- | -- | -- | | | < 2 |
| Turbidity (ntu) | -- | -- | -- | | | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0 | 0 | 7.6 |
| Ethene (µg/l) | -- | -- | -- | 0 | 0 | |
| iso-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 565 | 444 | 490 |
| n-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | 0 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/21/2010 12:00 AM<br>2966<br><br>Pennsylvania Departm... | 7/21/2010 12:00 AM<br>2972<br><br>Pennsylvania Departm... | 7/22/2010 5:56 PM<br>1450<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | 0.0012 |
| Barium (mg/l) | 2 | -- | -- | | | 0.098 |
| Boron (mg/l) | -- | -- | -- | | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 5.59 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.104 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.0005 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.0128 | 0.0129 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.108 | 0.12 | 0.089 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | 0.104 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.023 | 0.02 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.639 | 6.256 | 4.87 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/21/2010 12:00 AM<br>2966<br><br>Pennsylvania Departm... | 7/21/2010 12:00 AM<br>2972<br><br>Pennsylvania Departm... | 7/22/2010 5:56 PM<br>1450<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.111 | 0.125 | 0.104 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | < 2 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | < 1 | 1.016 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 7.841 | 11.1 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 32.4 | 31.1 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/21/2010 12:00 AM<br>2966<br><br>Pennsylvania Departm... | 7/21/2010 12:00 AM<br>2972<br><br>Pennsylvania Departm... | 7/22/2010 5:56 PM<br>1450<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/22/2010 6:10 PM<br>1448<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/28/2010 12:00 AM<br>2982<br><br>Pennsylvania Departm... | 8/6/2010 11:33 AM<br>1508<br>FINAL EFFLUENT (AFTER TREATMENT)<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74482288 | | 41.74492 |
| Longitude | -- | -- | -- | -75.88357178 | | -75.88393 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 304 | | 284 |
| Chloride (mg/l) | -- | 250 | -- | 17.9 | 19.7 | 18.5 |
| DO (mg/l) | -- | -- | -- | 2.9 | | 9.28 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 107.7 | | 240.1 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.96 | 7.4 | 7.74 |
| Sulfate (mg/l) | 250 | -- | -- | | 13.5 | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 145 | 190 | 240 |
| TSS (mg/l) | -- | -- | -- | 2 | | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | 1.11 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 9.9 | | 0.22 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | 0.025 | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 1,600 | | 10 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0.025 | | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/22/2010 6:10 PM<br>1448<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/28/2010 12:00 AM<br>2982<br><br>Pennsylvania Departm... | 8/6/2010 11:33 AM<br>1508<br>FINAL EFFLUENT (AFTER TREATMENT)<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.0009 | | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | 0.116 | | 0.11 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | | 0.131 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | < 0.005 |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.54 | | 5.05 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.146 | | 0.136 |
| Thallium (mg/l) | -- | -- | -- | < 0.0005 | | < 0.002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | 0.0234 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | < 0.003 | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.112 | 0.084 | 0.115 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.077 | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | 0.032 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.42 | 6.312 | 5.26 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/22/2010 6:10 PM<br>1448<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/28/2010 12:00 AM<br>2982<br><br>Pennsylvania Departm... | 8/6/2010 11:33 AM<br>1508<br>FINAL EFFLUENT (AFTER TREATMENT)<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.14 | | 0.138 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | < 0.005 |
| **Water Quality Indicator Parameters** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | < 0.002 | |
| Beryllium (mg/l) | -- | -- | -- | | < 0.001 | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | < 0.002 | < 0.002 |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 29.9 |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | < 0.004 | |
| Copper (mg/l) | -- | -- | -- | | 0.095 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | < 0.0002 | |

**Notes:**

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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/22/2010 6:10 PM<br>1448<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/28/2010 12:00 AM<br>2982<br><br>Pennsylvania Departm... | 8/6/2010 11:33 AM<br>1508<br>FINAL EFFLUENT (AFTER TREATMENT)<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Nickel (mg/l) | -- | -- | -- | | < 0.05 | |
| Nitrate (mg/l) | -- | -- | -- | | 2.55 | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | 0.04 | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | < 0.007 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 8.872 | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | < 0.01 | |

**Notes:**

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/12/2010 2:32 PM<br>1652<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/12/2010 2:54 PM<br>1512<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/18/2010 12:00 AM<br>2999<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74492 | 41.744944 | |
| Longitude | -- | -- | -- | -75.88393 | -75.88393 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 91.4 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 308 | 289 | |
| Chloride (mg/l) | -- | 250 | -- | 17.7 | 16.8 | 15.4 |
| DO (mg/l) | -- | -- | -- | 8.4 | 9.16 | |
| Hardness (mg/l) | -- | -- | -- | | | 114 |
| ORP (mV) | -- | -- | -- | 136.5 | 155.5 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.45 | 7.08 | 7.6 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 190 | 180 | 172 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0.068 | 1 | 0 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 1.7 | 21 | 65.6 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/12/2010 2:32 PM<br>1652<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/12/2010 2:54 PM<br>1512<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/18/2010 12:00 AM<br>2999<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 110 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.0009 | 0.0005 | |
| Barium (mg/l) | 2 | -- | -- | 0.116 | 0.133 | |
| Boron (mg/l) | -- | -- | -- | 0.12 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.075 | < 0.05 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.37 | 6.06 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.129 | 0.139 | |
| Thallium (mg/l) | -- | -- | -- | < 0.0005 | < 0.0005 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | < 0.003 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.109 | 0.125 | 0.142 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.02 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.2 | 5.88 | 6.979 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/12/2010 2:32 PM<br>1652<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/12/2010 2:54 PM<br>1512<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/18/2010 12:00 AM<br>2999<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.124 | 0.134 | 0.147 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 34.2 |

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/12/2010 2:32 PM<br>1652<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/12/2010 2:54 PM<br>1512<br>Before treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/18/2010 12:00 AM<br>2999<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.013 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 9.33 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/18/2010 12:00 AM<br>3004<br><br>Pennsylvania Departm... | 8/20/2010 1:00 PM<br>1547<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/20/2010 2:25 PM<br>1548<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.74492 | 41.74492 |
| Longitude | -- | -- | -- | | -75.88393 | -75.88393 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 125.4 | | |
| LEL - Wellhead (%) | -- | -- | -- | | < 1 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | 284 | 297 |
| Chloride (mg/l) | -- | 250 | -- | 14.1 | 17.3 | 16.3 |
| DO (mg/l) | -- | -- | -- | | 15.17 | 7.29 |
| Hardness (mg/l) | -- | -- | -- | 76 | | |
| ORP (mV) | -- | -- | -- | | 92.3 | 109.2 |
| MBAS (mg/l) | -- | -- | -- | | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 8.3 | 7.95 | 7.64 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 194 | 190 | 190 |
| TSS (mg/l) | -- | -- | -- | | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | | 8.5 | 3.6 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | | 270 | 200 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/18/2010 12:00 AM<br>3004<br><br>Pennsylvania Departm... | 8/20/2010 1:00 PM<br>1547<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/20/2010 2:25 PM<br>1548<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | 0.0006 | 0.0009 |
| Barium (mg/l) | 2 | -- | -- | | 0.117 | 0.117 |
| Boron (mg/l) | -- | -- | -- | | < 0.1 | 0.144 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | 6.13 | 4.4 |
| Manganese (mg/l) | -- | 0.05 | -- | | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | 0.116 | 0.141 |
| Thallium (mg/l) | -- | -- | -- | | < 0.0005 | < 0.0005 |
| Vanadium (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.1 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | < 0.003 | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.118 | 0.108 | 0.109 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | < 0.1 | 0.157 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.02 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 4.675 | 6 | 3.87 |

**Notes:**

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/18/2010 12:00 AM<br>3004<br><br>Pennsylvania Departm... | 8/20/2010 1:00 PM<br>1547<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/20/2010 2:25 PM<br>1548<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.147 | 0.108 | 0.13 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | < 0.002 | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | < 2.1 | < 2.2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 22.8 | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.099 | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 38.7 | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **8/18/2010 12:00 AM**<br>**3004**<br><br>**Pennsylvania Departm...** | **8/20/2010 1:00 PM**<br>**1547**<br>**AFTER TREATMENT**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **8/20/2010 2:25 PM**<br>**1548**<br>**BEFORE TREATMENT**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/24/2010 12:00 AM<br>3008<br><br>Pennsylvania Departm... | 8/24/2010 12:00 AM<br>3014<br><br>Pennsylvania Departm... | 8/26/2010 3:30 PM<br>1567<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.74500752 |
| Longitude | -- | -- | -- | | | -75.883889 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 115.6 | 91.4 | |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 323 |
| Chloride (mg/l) | -- | 250 | -- | 14.4 | 18 | 19.1 |
| DO (mg/l) | -- | -- | -- | | | 8.52 |
| Hardness (mg/l) | -- | -- | -- | 84 | 109 | |
| ORP (mV) | -- | -- | -- | | | 76 |
| MBAS (mg/l) | -- | -- | -- | | | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 8.2 | | 7.42 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | < 1 |
| TDS (mg/l) | -- | 500 | -- | | 172 | < 172 |
| TSS (mg/l) | -- | -- | -- | | | < 2 |
| Turbidity (ntu) | -- | -- | -- | | | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0 | 0 | < 0.025 |
| Ethene (µg/l) | -- | -- | -- | 0 | 0 | |
| iso-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 0 | 0 | 0.22 |
| n-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | 0 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/24/2010 12:00 AM<br>3008<br><br>Pennsylvania Departm... | 8/24/2010 12:00 AM<br>3014<br><br>Pennsylvania Departm... | 8/26/2010 3:30 PM<br>1567<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | 0.001 |
| Barium (mg/l) | 2 | -- | -- | | | 0.118 |
| Boron (mg/l) | -- | -- | -- | | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 5.16 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.131 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.0005 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.2 | < 0.2 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.113 | 0.15 | 0.118 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.02 | < 0.02 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 4.922 | 6.288 | 5.14 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/24/2010 12:00 AM<br>3008<br><br>Pennsylvania Departm... | 8/24/2010 12:00 AM<br>3014<br><br>Pennsylvania Departm... | 8/26/2010 3:30 PM<br>1567<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.01 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.137 | 0.154 | 0.129 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | < 2.1 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.063 | 1.048 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 30.7 | 11.9 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 25.5 | 33.4 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/24/2010 12:00 AM<br>3008<br><br>Pennsylvania Departm... | 8/24/2010 12:00 AM<br>3014<br><br>Pennsylvania Departm... | 8/26/2010 3:30 PM<br>1567<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/26/2010 4:16 PM<br>1568<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/31/2010 12:00 AM<br>3018<br><br>Pennsylvania Departm... | 9/2/2010 12:00 AM<br>3021<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.745007 | | |
| Longitude | -- | -- | -- | -75.883889 | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 96.6 | 12.6 |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 330 | | |
| Chloride (mg/l) | -- | 250 | -- | 29.2 | 18.1 | 15.8 |
| DO (mg/l) | -- | -- | -- | 6.4 | | |
| Hardness (mg/l) | -- | -- | -- | | 99 | 81 |
| ORP (mV) | -- | -- | -- | 111.3 | | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.59 | 7.3 | 7.4 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | |
| TDS (mg/l) | -- | 500 | -- | 172 | | |
| TSS (mg/l) | -- | -- | -- | < 2 | | |
| Turbidity (ntu) | -- | -- | -- | 1 | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0.47 | 0 | 0 |
| Ethene (µg/l) | -- | -- | -- | | 0 | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Methane (µg/l) | -- | -- | 28000 | 140 | 80.9 | 0 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | 0 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **8/26/2010 4:16 PM**<br>**1568**<br>**BEFORE TREATMENT**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **8/31/2010 12:00 AM**<br>**3018**<br><br>**Pennsylvania Departm...** | **9/2/2010 12:00 AM**<br>**3021**<br><br>**Pennsylvania Departm...** |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | | |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.0005 | | |
| Barium (mg/l) | 2 | -- | -- | 0.15 | | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.91 | | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.141 | | |
| Thallium (mg/l) | -- | -- | -- | < 0.0005 | | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.2 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.15 | 0.109 | 0.123 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.02 | 0.02 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.94 | 5.408 | 5.006 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/26/2010 4:16 PM<br>1568<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/31/2010 12:00 AM<br>3018<br><br>Pennsylvania Departm... | 9/2/2010 12:00 AM<br>3021<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.01 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.138 | 0.116 | 0.161 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | 30.7 | 1.18 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/26/2010 4:16 PM<br>1568<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/31/2010 12:00 AM<br>3018<br><br>Pennsylvania Departm... | 9/2/2010 12:00 AM<br>3021<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | 1.049 | 1.18 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 19 | 32.9 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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Ex. 6 - Personal Privacy

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|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74492 | 41.74492 | |
| Longitude | -- | -- | -- | -75.88393 | -75.88393 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 247 | 262 | |
| Chloride (mg/l) | -- | 250 | -- | 18.8 | 18.8 | |
| DO (mg/l) | -- | -- | -- | 7.88 | 12.4 | |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 153.2 | 143.1 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.95 | 6.92 | |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 168 | 164 | |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0.12 | 0.028 | 0 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 3 | 0.67 | 1,410 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/2/2010 7:34 PM<br>1613<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/2/2010 8:00 PM<br>1614<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/8/2010 12:00 AM<br>3027<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 110 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.0005 | 0.0009 | |
| Barium (mg/l) | 2 | -- | -- | 0.14 | 0.121 | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.75 | 5.25 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.143 | 0.129 | |
| Thallium (mg/l) | -- | -- | -- | < 0.0005 | < 0.0005 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.1 | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.0005 | < 0.004 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.143 | 0.104 | |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.78 | 5.16 | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/2/2010 7:34 PM<br>1613<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/2/2010 8:00 PM<br>1614<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/8/2010 12:00 AM<br>3027<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.145 | 0.13 | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0005 | < 0.0005 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | < 2.2 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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* If there is an aerator in the faucet it is removed prior to sampling.
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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/2/2010 7:34 PM<br>1613<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/2/2010 8:00 PM<br>1614<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/8/2010 12:00 AM<br>3027<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/8/2010 12:00 AM<br>3029<br><br>Pennsylvania Departm... | 9/8/2010 12:00 AM<br>3032<br><br>Pennsylvania Departm... | 9/9/2010 5:20 PM<br>1626<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.74492 |
| Longitude | -- | -- | -- | | | -75.88393 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 87.2 | 94.2 | |
| LEL - Wellhead (%) | -- | -- | -- | | | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 246 |
| Chloride (mg/l) | -- | 250 | -- | 16.9 | 17.8 | 18.5 |
| DO (mg/l) | -- | -- | -- | | | 8.42 |
| Hardness (mg/l) | -- | -- | -- | 106 | 99 | |
| ORP (mV) | -- | -- | -- | | | 150.1 |
| MBAS (mg/l) | -- | -- | -- | | | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.2 | 7.9 | 7.21 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 176 | 174 | 176 |
| TSS (mg/l) | -- | -- | -- | | | < 2 |
| Turbidity (ntu) | -- | -- | -- | | | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0 | | 0.27 |
| Ethene (µg/l) | -- | -- | -- | 0 | | |
| iso-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 12.5 | | 21 |
| n-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/8/2010 12:00 AM<br>3029<br><br>Pennsylvania Departm... | 9/8/2010 12:00 AM<br>3032<br><br>Pennsylvania Departm... | 9/9/2010 5:20 PM<br>1626<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | 0.0008 |
| Barium (mg/l) | 2 | -- | -- | | | 0.109 |
| Boron (mg/l) | -- | -- | -- | | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 5.16 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.12 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.0005 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.2 | < 0.2 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.004 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.119 | 0.135 | 0.11 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.025 | < 0.02 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.129 | 6.481 | 5.16 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/8/2010 12:00 AM<br>3029<br><br>Pennsylvania Departm... | 9/8/2010 12:00 AM<br>3032<br><br>Pennsylvania Departm... | 9/9/2010 5:20 PM<br>1626<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.123 | 0.141 | 0.121 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.0005 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | < 2.1 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.017 | 1.088 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 7.703 | 9.85 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 32.1 | 28.9 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/8/2010 12:00 AM<br>3029<br><br>Pennsylvania Departm... | 9/8/2010 12:00 AM<br>3032<br><br>Pennsylvania Departm... | 9/9/2010 5:20 PM<br>1626<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/10/2010 9:45 AM<br>1639<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2010 12:00 AM<br>3037<br><br>Pennsylvania Departm... | 9/15/2010 12:00 AM<br>3038<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74492 | | |
| Longitude | -- | -- | -- | -75.88393 | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 93.2 | 102.2 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 313 | | |
| Chloride (mg/l) | -- | 250 | -- | 13.9 | 14.8 | 14.2 |
| DO (mg/l) | -- | -- | -- | 6.79 | | |
| Hardness (mg/l) | -- | -- | -- | | 110 | 109 |
| ORP (mV) | -- | -- | -- | 87.8 | | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | | |
| pH (pH) | -- | 6.5-8.5 | -- | 8.49 | 7.6 | 7.6 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | |
| TDS (mg/l) | -- | 500 | -- | 232 | | 164 |
| TSS (mg/l) | -- | -- | -- | < 2 | | |
| Turbidity (ntu) | -- | -- | -- | 1 | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 8 | 0 | 0 |
| Ethene (µg/l) | -- | -- | -- | | 0 | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Methane (µg/l) | -- | -- | 28000 | 280 | 0 | 0 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | 0 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/10/2010 9:45 AM<br>1639<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2010 12:00 AM<br>3037<br><br>Pennsylvania Departm... | 9/15/2010 12:00 AM<br>3038<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | | |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.0031 | | |
| Barium (mg/l) | 2 | -- | -- | 0.059 | | |
| Boron (mg/l) | -- | -- | -- | 0.373 | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 1.14 | | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.112 | | |
| Thallium (mg/l) | -- | -- | -- | < 0.0005 | | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.2 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.004 | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.059 | 0.14 | 0.122 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.4 | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.02 | < 0.02 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 1.1 | 6.576 | 6.209 |

**Notes:**

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/10/2010 9:45 AM<br>1639<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2010 12:00 AM<br>3037<br><br>Pennsylvania Departm... | 9/15/2010 12:00 AM<br>3038<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.01 | < 0.0001 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.158 | 0.13 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0005 | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | 33.3 | 33.3 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/10/2010 9:45 AM<br>1639<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2010 12:00 AM<br>3037<br><br>Pennsylvania Departm... | 9/15/2010 12:00 AM<br>3038<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | 1.053 | < 0.001 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 11.6 | 12.6 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/21/2010 12:00 AM<br>3041<br><br>Pennsylvania Departm... | 9/21/2010 12:00 AM<br>3043<br><br>Pennsylvania Departm... | 9/23/2010 4:10 PM<br>1702<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.74492 |
| Longitude | -- | -- | -- | | | -75.88425 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 172 | 94.2 | |
| LEL - Wellhead (%) | -- | -- | -- | | | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 309 |
| Chloride (mg/l) | -- | 250 | -- | 12.5 | 15.4 | 17.8 |
| DO (mg/l) | -- | -- | -- | | | 7.98 |
| Hardness (mg/l) | -- | -- | -- | 32 | 107 | |
| ORP (mV) | -- | -- | -- | | | 154.9 |
| MBAS (mg/l) | -- | -- | -- | | | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 9.3 | 8.2 | 7.45 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 236 | 40 | 152 |
| TSS (mg/l) | -- | -- | -- | | | < 2 |
| Turbidity (ntu) | -- | -- | -- | | | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 64 | 0 | 6.4 |
| Ethene (µg/l) | -- | -- | -- | 0 | 0 | |
| iso-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2,020 | 15.3 | 160 |
| n-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | 0 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/21/2010 12:00 AM<br>3041<br><br>Pennsylvania Departm... | 9/21/2010 12:00 AM<br>3043<br><br>Pennsylvania Departm... | 9/23/2010 4:10 PM<br>1702<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | 0.0008 |
| Barium (mg/l) | 2 | -- | -- | | | 0.129 |
| Boron (mg/l) | -- | -- | -- | | | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 5.54 |
| Manganese (mg/l) | -- | 0.05 | -- | | | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.144 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.0005 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.213 | < 0.2 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.004 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.118 | 0.133 | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.48 | < 0.02 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 1.877 | 6.784 | 5.57 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/21/2010 12:00 AM<br>3041<br><br>Pennsylvania Departm... | 9/21/2010 12:00 AM<br>3043<br><br>Pennsylvania Departm... | 9/23/2010 4:10 PM<br>1702<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.057 | < 0.01 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.162 | 0.141 | 0.146 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.0005 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | < 2 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.28 | 1.065 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 70.6 | 11.6 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 9.59 | 31.8 | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

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[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **9/21/2010 12:00 AM**<br>**3041**<br><br>**Pennsylvania Departm...** | **9/21/2010 12:00 AM**<br>**3043**<br><br>**Pennsylvania Departm...** | **9/23/2010 4:10 PM**<br>**1702**<br>**AFTER TREATMENT**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/23/2010 4:26 PM | 10/1/2010 2:30 PM | 10/1/2010 2:50 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 1701 | 1812 | 1813 |
| Sample Location: | | | | BEFORE TREATMENT | Before Treatment | AFTER TREATMENT |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74491667 | 41.74492 | 41.74492 |
| Longitude | -- | -- | -- | -75.88425 | -75.88393 | -75.88393 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 293 | 212 | 235 |
| Chloride (mg/l) | -- | 250 | -- | 16.6 | 22.9 | 22.7 |
| DO (mg/l) | -- | -- | -- | 9.15 | 7.46 | 8.79 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 187.2 | 147.3 | 128.8 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.91 | 6.83 | 7.33 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 165 | 136 | 156 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 130 | 680 | 45 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2,800 | 17,000 | 880 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0.063 | 0.068 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/23/2010 4:26 PM | 10/1/2010 2:30 PM | 10/1/2010 2:50 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 1701 | 1812 | 1813 |
| Sample Location: | | | | BEFORE TREATMENT | Before Treatment | AFTER TREATMENT |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.0008 | 0.001 | 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.15 | 0.116 | 0.127 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.2 | 6.25 | 5.39 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.176 | 0.12 | 0.134 |
| Thallium (mg/l) | -- | -- | -- | < 0.0005 | < 0.0005 | < 0.0005 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.05 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.004 | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.147 | 0.119 | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.06 | 6.49 | 5.7 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/23/2010 4:26 PM<br>1701<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 | 10/1/2010 2:30 PM<br>1812<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 10/1/2010 2:50 PM<br>1813<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.173 | 0.123 | 0.138 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0005 | < 0.0005 | < 0.0005 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 10.6 | < 10.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/23/2010 4:26 PM | 10/1/2010 2:30 PM | 10/1/2010 2:50 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 1701 | 1812 | 1813 |
| Sample Location: | | | | BEFORE TREATMENT | Before Treatment | AFTER TREATMENT |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/8/2010 4:22 PM<br>1783<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/8/2010 4:38 PM<br>1784<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/12/2010 12:00 AM<br>3049<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74496 | 41.74496 | |
| Longitude | -- | -- | -- | -75.8839 | -75.88393 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 84.6 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 308 | 288 | |
| Chloride (mg/l) | -- | 250 | -- | 27.8 | 29.3 | 19.4 |
| DO (mg/l) | -- | -- | -- | 8.72 | 7.39 | |
| Hardness (mg/l) | -- | -- | -- | | | 112 |
| ORP (mV) | -- | -- | -- | 164.2 | 183.4 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.18 | 6.67 | 7.4 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 180 | 168 | 180 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | 15 | 204 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 130 | 27 | 193 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 3,700 | 720 | 10,100 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/8/2010 4:22 PM<br>1783<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/8/2010 4:38 PM<br>1784<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 | 10/12/2010 12:00 AM<br>3049<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.003 | < 0.003 | |
| Barium (mg/l) | 2 | -- | -- | 0.123 | 0.122 | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.12 | 6.16 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.13 | 0.126 | |
| Thallium (mg/l) | -- | -- | -- | < 0.0005 | < 0.0005 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | < 0.003 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.124 | 0.124 | 0.108 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.022 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.18 | 6.34 | 6.321 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/8/2010 4:22 PM<br>1783<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/8/2010 4:38 PM<br>1784<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 | 10/12/2010 12:00 AM<br>3049<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | 0.012 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.131 | 0.128 | 0.109 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0006 | < 0.0006 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 10.2 | < 10.4 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 34.5 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **10/8/2010 4:22 PM**<br>**1783**<br>**After treatment**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **10/8/2010 4:38 PM**<br>**1784**<br>**BEFORE TREATMENT**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **10/12/2010 12:00 AM**<br>**3049**<br><br>**Pennsylvania Departm...** |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.167 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 9.87 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/12/2010 12:00 AM<br>3055<br><br>Pennsylvania Departm... | 10/13/2010 6:54 PM<br>1814<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/13/2010 7:06 PM<br>1815<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 90.6 | | |
| LEL - Wellhead (%) | -- | -- | -- | | 11 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | 291 | 280 |
| Chloride (mg/l) | -- | 250 | -- | 19 | 26.7 | 25.7 |
| DO (mg/l) | -- | -- | -- | | 8.61 | 7.34 |
| Hardness (mg/l) | -- | -- | -- | 104 | | |
| ORP (mV) | -- | -- | -- | | 143.2 | 155.5 |
| MBAS (mg/l) | -- | -- | -- | | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.9 | 7.06 | 6.81 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 178 | 200 | 156 |
| TSS (mg/l) | -- | -- | -- | | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | 6 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 15.6 | 2.8 | 38 |
| Ethene (µg/l) | -- | -- | -- | 0 | | |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 819 | 110 | 1,300 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/12/2010 12:00 AM<br>3055<br><br>Pennsylvania Departm... | 10/13/2010 6:54 PM<br>1814<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/13/2010 7:06 PM<br>1815<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | < 110 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | < 0.05 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | | 0.0007 | 0.0006 |
| Barium (mg/l) | 2 | -- | -- | | 0.123 | 0.126 |
| Boron (mg/l) | -- | -- | -- | | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | 5.73 | 6.48 |
| Manganese (mg/l) | -- | 0.05 | -- | | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | 0.129 | 0.13 |
| Thallium (mg/l) | -- | -- | -- | | < 0.0005 | < 0.0005 |
| Vanadium (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.2 | < 0.05 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | < 0.003 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.123 | 0.124 | 0.126 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.02 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.915 | 5.75 | 6.38 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/12/2010 12:00 AM<br>3055<br><br>Pennsylvania Departm... | 10/13/2010 6:54 PM<br>1814<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/13/2010 7:06 PM<br>1815<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.123 | 0.13 | 0.129 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | < 0.0006 | < 0.0006 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | < 2.1 | < 2.1 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.151 | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 13.5 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 32 | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 83.6 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 207 | 203 | |
| Chloride (mg/l) | -- | 250 | -- | 31.6 | 31.1 | 19.7 |
| DO (mg/l) | -- | -- | -- | 6.64 | 6.17 | |
| Hardness (mg/l) | -- | -- | -- | | | 111 |
| ORP (mV) | -- | -- | -- | 165 | 172.3 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.66 | 6.49 | 7.2 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 172 | 184 | 180 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | 1 | 1 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | 9 | 9 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 110 | 140 | 9.57 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 6,100 | 6,500 | 1,020 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/20/2010 5:20 PM<br>1816<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/20/2010 5:50 PM<br>1817<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 | 10/21/2010 12:00 AM<br>3059<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 110 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | |
| Barium (mg/l) | 2 | -- | -- | 0.102 | 0.098 | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.17 | 6.09 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.099 | 0.095 | |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.101 | 0.098 | 0.118 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.027 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.06 | 6.12 | 6.324 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/20/2010 5:20 PM<br>1816<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/20/2010 5:50 PM<br>1817<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 | 10/21/2010 12:00 AM<br>3059<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.099 | 0.095 | 0.12 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 33.8 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/20/2010 5:20 PM<br>1816<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/20/2010 5:50 PM<br>1817<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Well 1 | 10/21/2010 12:00 AM<br>3059<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.131 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 9.66 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/21/2010 12:00 AM<br>3064<br><br>Pennsylvania Departm... | 10/28/2010 12:00 AM<br>3067<br><br>Pennsylvania Departm... | 10/28/2010 12:00 AM<br>3071<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 99 | 84.8 | 85.4 |
| LEL - Wellhead (%) | -- | -- | -- | | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | |
| Chloride (mg/l) | -- | 250 | -- | 21.3 | 19.5 | 19.6 |
| DO (mg/l) | -- | -- | -- | | | |
| Hardness (mg/l) | -- | -- | -- | 93 | 111 | 109 |
| ORP (mV) | -- | -- | -- | | | |
| MBAS (mg/l) | -- | -- | -- | | | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.8 | 7 | 7.4 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | |
| TDS (mg/l) | -- | 500 | -- | | 164 | |
| TSS (mg/l) | -- | -- | -- | | | |
| Turbidity (ntu) | -- | -- | -- | | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0 | 150 | 23.4 |
| Ethene (µg/l) | -- | -- | -- | 0 | 0 | 0 |
| iso-Butane (µg/l) | -- | -- | -- | | | |
| Methane (µg/l) | -- | -- | 28000 | 232 | 9,360 | 1,140 |
| n-Butane (µg/l) | -- | -- | -- | | | |
| Propane (µg/l) | -- | -- | -- | 0 | 0 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/21/2010 12:00 AM<br>3064<br><br>Pennsylvania Departm... | 10/28/2010 12:00 AM<br>3067<br><br>Pennsylvania Departm... | 10/28/2010 12:00 AM<br>3071<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | |
| Manganese (mg/l) | -- | 0.05 | -- | | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | |
| Thallium (mg/l) | -- | -- | -- | | | |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.2 | < 0.2 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.111 | 0.114 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.02 | < 0.2 | < 0.02 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.186 | 6.102 | 6.062 |

**Notes:**

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/21/2010 12:00 AM<br>3064<br><br>Pennsylvania Departm... | 10/28/2010 12:00 AM<br>3067<br><br>Pennsylvania Departm... | 10/28/2010 12:00 AM<br>3071<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.116 | 0.109 | 0.112 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.155 | 1.054 | 1.068 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 24 | 8.766 | 9.82 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 28.6 | 34.3 | 33.8 |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **10/21/2010 12:00 AM**<br>**3064**<br><br>**Pennsylvania Departm...** | **10/28/2010 12:00 AM**<br>**3067**<br><br>**Pennsylvania Departm...** | **10/28/2010 12:00 AM**<br>**3071**<br><br>**Pennsylvania Departm...** |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/28/2010 12:30 PM<br>1818<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/2/2010 12:00 AM<br>3076<br><br>Pennsylvania Departm... | 11/2/2010 12:00 AM<br>3080<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | 85.4 | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 206 | | |
| Chloride (mg/l) | -- | 250 | -- | 29.1 | 21 | |
| DO (mg/l) | -- | -- | -- | 7.16 | | |
| Hardness (mg/l) | -- | -- | -- | | 108 | |
| ORP (mV) | -- | -- | -- | 166.3 | | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.24 | 7.6 | |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | | |
| TDS (mg/l) | -- | 500 | -- | 164 | 186 | |
| TSS (mg/l) | -- | -- | -- | < 2 | | |
| Turbidity (ntu) | -- | -- | -- | 2 | | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | 14 | | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 140 | 191 | 979 |
| Ethene (µg/l) | -- | -- | -- | | 0 | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Methane (µg/l) | -- | -- | 28000 | 6,900 | 11,900 | 24,600 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | 0 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/28/2010 12:30 PM<br>1818<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy | 11/2/2010 12:00 AM<br>3076<br><br>Pennsylvania Departm... | 11/2/2010 12:00 AM<br>3080<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.05 | | |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | | |
| Barium (mg/l) | 2 | -- | -- | 0.098 | | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.058 | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.09 | | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.098 | | |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.2 | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.094 | 0.12 | |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.02 | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.09 | 6.037 | |

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/28/2010 12:30 PM<br>1818<br>BEFORE TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/2/2010 12:00 AM<br>3076<br><br>Pennsylvania Departm... | 11/2/2010 12:00 AM<br>3080<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.01 | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.095 | 0.111 | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | 33.3 | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **10/28/2010 12:30 PM**<br>**1818**<br>**BEFORE TREATMENT**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **11/2/2010 12:00 AM**<br>**3076**<br><br>**Pennsylvania Departm...** | **11/2/2010 12:00 AM**<br>**3080**<br><br>**Pennsylvania Departm...** |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | 1.087 | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | 11.4 | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/4/2010 6:29 PM<br>1938<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/4/2010 6:45 PM<br>1937<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 11/9/2010 12:00 AM<br>3085<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 92 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 198 | 201 | |
| Chloride (mg/l) | -- | 250 | -- | 17.3 | 16.8 | 21.2 |
| DO (mg/l) | -- | -- | -- | 8.53 | 10.49 | |
| Hardness (mg/l) | -- | -- | -- | | | 124 |
| ORP (mV) | -- | -- | -- | 174.7 | 162.5 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 6.48 | 6.88 | 7.6 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 176 | 168 | 176 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 270 | 39 | 65 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 11,000 | 1,300 | 4,190 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 110 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | |
| Barium (mg/l) | 2 | -- | -- | 0.111 | 0.114 | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.26 | 6.26 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.109 | 0.114 | |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.108 | 0.114 | 0.132 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.02 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.36 | 6.22 | 6.895 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/4/2010 6:29 PM<br>1938<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/4/2010 6:45 PM<br>1937<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 11/9/2010 12:00 AM<br>3085<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.107 | 0.114 | 0.133 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 38.3 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/4/2010 6:29 PM<br>1938<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/4/2010 6:45 PM<br>1937<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 11/9/2010 12:00 AM<br>3085<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.166 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 11.7 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/9/2010 12:00 AM<br>3092<br><br>Pennsylvania Departm... | 11/12/2010 2:04 PM<br>1978<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/12/2010 2:24 PM<br>1979<br>AFTER TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 96.4 | | |
| LEL - Wellhead (%) | -- | -- | -- | | < 1 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | 207 | 206 |
| Chloride (mg/l) | -- | 250 | -- | 20.3 | 18.3 | 18.9 |
| DO (mg/l) | -- | -- | -- | | 5.59 | 8.8 |
| Hardness (mg/l) | -- | -- | -- | 113 | | |
| ORP (mV) | -- | -- | -- | | 171.4 | 153.8 |
| MBAS (mg/l) | -- | -- | -- | | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.6 | 6.45 | 6.96 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 184 | 156 | 176 |
| TSS (mg/l) | -- | -- | -- | | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0 | 240 | 9.9 |
| Ethene (µg/l) | -- | -- | -- | 0 | | |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 80.4 | 10,000 | 380 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/9/2010 12:00 AM<br>3092<br><br>Pennsylvania Departm... | 11/12/2010 2:04 PM<br>1978<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/12/2010 2:24 PM<br>1979<br>AFTER TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | < 0.05 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | | < 0.01 | < 0.01 |
| Barium (mg/l) | 2 | -- | -- | | 0.106 | 0.116 |
| Boron (mg/l) | -- | -- | -- | | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | 5.99 | 5.9 |
| Manganese (mg/l) | -- | 0.05 | -- | | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | 0.104 | 0.114 |
| Thallium (mg/l) | -- | -- | -- | | < 0.015 | < 0.015 |
| Vanadium (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.2 | < 0.05 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.135 | 0.106 | 0.117 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.02 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.191 | 6.16 | 6.16 |

**Notes:**

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* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/9/2010 12:00 AM<br>3092<br><br>Pennsylvania Departm... | 11/12/2010 2:04 PM<br>1978<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/12/2010 2:24 PM<br>1979<br>AFTER TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.133 | 0.105 | 0.115 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | < 0.015 | < 0.015 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | < 2 | < 2.1 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.082 | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 15.7 | | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 34.8 | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **11/9/2010 12:00 AM**<br>**3092**<br><br>**Pennsylvania Departm...** | **11/12/2010 2:04 PM**<br>**1978**<br>**Before Treatment**<br><br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **11/12/2010 2:24 PM**<br>**1979**<br>**AFTER TREATMENT SYSTEM**<br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/20/2010 4:39 PM<br>1845<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/20/2010 4:50 PM<br>1844<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 11/22/2010 12:00 AM<br>3094<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.44696 | 41.44696 | |
| Longitude | -- | -- | -- | -75.53034 | -75.53034 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 90 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 292 | 287 | |
| Chloride (mg/l) | -- | 250 | -- | 20.2 | 20 | 21.4 |
| DO (mg/l) | -- | -- | -- | 9.19 | 6.34 | |
| Hardness (mg/l) | -- | -- | -- | | | 111 |
| ORP (mV) | -- | -- | -- | 157.5 | 167.9 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 7 | 6.66 | 7.9 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 168 | 168 | 174 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | 1 | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 31 | 120 | 20 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 1,200 | 5,200 | 454 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/20/2010 4:39 PM<br>1845<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/20/2010 4:50 PM<br>1844<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 11/22/2010 12:00 AM<br>3094<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | |
| Barium (mg/l) | 2 | -- | -- | 0.118 | 0.115 | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.82 | 6.12 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.116 | 0.112 | |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.121 | 0.111 | 0.12 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.02 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.01 | 6.05 | 6.274 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/20/2010 4:39 PM<br>1845<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/20/2010 4:50 PM<br>1844<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 11/22/2010 12:00 AM<br>3094<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.119 | 0.109 | 0.117 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 33.9 |

**Notes:**
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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/20/2010 4:39 PM<br>1845<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/20/2010 4:50 PM<br>1844<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 11/22/2010 12:00 AM<br>3094<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.095 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 10.3 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/23/2010 3:45 PM<br>2050<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/23/2010 3:59 PM<br>2049<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 12/2/2010 12:00 AM<br>3098<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.7449333 | 41.44696 | |
| Longitude | -- | -- | -- | -75.88386667 | -75.53032 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | 78.4 |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 286 | 278 | |
| Chloride (mg/l) | -- | 250 | -- | 17.2 | 17.5 | 23.3 |
| DO (mg/l) | -- | -- | -- | 8.72 | 6.18 | |
| Hardness (mg/l) | -- | -- | -- | | | 109 |
| ORP (mV) | -- | -- | -- | 160.2 | 174.6 | |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 7.17 | 6.8 | 7.2 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| TDS (mg/l) | -- | 500 | -- | 155 | 145 | 184 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 27 | 250 | 168 |
| Ethene (µg/l) | -- | -- | -- | | | 0 |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Methane (µg/l) | -- | -- | 28000 | 840 | 9,000 | 8,230 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/23/2010 3:45 PM<br>2050<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/23/2010 3:59 PM<br>2049<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 12/2/2010 12:00 AM<br>3098<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | |
| Barium (mg/l) | 2 | -- | -- | 0.12 | 0.116 | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6 | 5.99 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.121 | 0.112 | |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.2 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.115 | 0.116 | 0.121 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.02 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.68 | 6.02 | 6.085 |

**Notes:**

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/23/2010 3:45 PM<br>2050<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/23/2010 3:59 PM<br>2049<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 12/2/2010 12:00 AM<br>3098<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.114 | 0.113 | 0.116 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2 | < 2 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 33.7 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/23/2010 3:45 PM<br>2050<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/23/2010 3:59 PM<br>2049<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/2/2010 12:00 AM<br>3098<br><br>Pennsylvania Departm... |
|---|---|---|---|---|---|---|
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.118 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 10.7 |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/2/2010 12:00 AM<br>3099<br><br>Pennsylvania Departm... | 12/2/2010 5:32 PM<br>2322<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/2/2010 5:50 PM<br>2323<br>AFTER TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | | < 1 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | 199 | 198 |
| Chloride (mg/l) | -- | 250 | -- | | 20.4 | 20.7 |
| DO (mg/l) | -- | -- | -- | | 6.04 | 8.76 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | | 219.1 | 214 |
| MBAS (mg/l) | -- | -- | -- | | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | | 6.56 | 6.65 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | | 155 | 155 |
| TSS (mg/l) | -- | -- | -- | | 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | 20 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | 20 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 13.8 | 220 | 49 |
| Ethene (µg/l) | -- | -- | -- | 0 | | |
| iso-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 578 | 11,000 | 2,200 |
| n-Butane (µg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/2/2010 12:00 AM<br>3099<br><br>Pennsylvania Departm... | 12/2/2010 5:32 PM<br>2322<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/2/2010 5:50 PM<br>2323<br>AFTER TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | < 110 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | |
| Arsenic (mg/l) | 0.01 | -- | -- | | | |
| Barium (mg/l) | 2 | -- | -- | | | |
| Boron (mg/l) | -- | -- | -- | | | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | |
| Manganese (mg/l) | -- | 0.05 | -- | | | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | |
| Thallium (mg/l) | -- | -- | -- | | < 0.001 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/2/2010 12:00 AM<br>3099<br><br>Pennsylvania Departm... | 12/2/2010 5:32 PM<br>2322<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/2/2010 5:50 PM<br>2323<br>AFTER TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | < 0.001 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | < 2 | < 2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/2/2010 12:00 AM<br>3099<br><br>Pennsylvania Departm... | 12/2/2010 5:32 PM<br>2322<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/2/2010 5:50 PM<br>2323<br>AFTER TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/7/2010 12:00 AM<br>3141<br><br>Pennsylvania Departm... | 12/7/2010 12:00 AM<br>3142<br><br>Pennsylvania Departm... | 12/10/2010 3:04 PM<br>2329<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.7449333 |
| Longitude | -- | -- | -- | | | -75.8838667 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 70.2 | 70 | |
| LEL - Wellhead (%) | -- | -- | -- | | | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | | | 272 |
| Chloride (mg/l) | -- | 250 | -- | 29.8 | 29.3 | 22.8 |
| DO (mg/l) | -- | -- | -- | | | 8.4 |
| Hardness (mg/l) | -- | -- | -- | 107 | 108 | |
| ORP (mV) | -- | -- | -- | | | 169.8 |
| MBAS (mg/l) | -- | -- | -- | | | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.9 | 7.6 | 6.59 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | | | < 1 |
| TDS (mg/l) | -- | 500 | -- | 156 | 158 | 140 |
| TSS (mg/l) | -- | -- | -- | | | 2.4 |
| Turbidity (ntu) | -- | -- | -- | | | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 112 | 11.5 | 22 |
| Ethene (µg/l) | -- | -- | -- | 0 | 0 | |
| iso-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 8,370 | 621 | 1,200 |
| n-Butane (µg/l) | -- | -- | -- | | | < 0.05 |
| Propane (µg/l) | -- | -- | -- | 0 | 0 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/7/2010 12:00 AM<br>3141<br><br>Pennsylvania Departm... | 12/7/2010 12:00 AM<br>3142<br><br>Pennsylvania Departm... | 12/10/2010 3:04 PM<br>2329<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | < 0.01 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | | | 0.12 |
| Boron (mg/l) | -- | -- | -- | | | 0.025 |
| Calcium (mg/l) | -- | -- | -- | | | 32 |
| Cadmium (mg/l) | 0.005 | -- | -- | | | < 0.0001 |
| Chromium (mg/l) | 0.1 | -- | -- | | | < 0.002 |
| Iron (mg/l) | -- | 0.3 | -- | | | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | < 0.0003 |
| Magnesium (mg/l) | -- | -- | -- | | | 6 |
| Manganese (mg/l) | -- | 0.05 | -- | | | 0.0053 |
| Mercury (mg/l) | 0.002 | -- | -- | | | < 0.0002 |
| Potassium (mg/l) | -- | -- | -- | | | 1.1 |
| Selenium (mg/l) | 0.05 | -- | -- | | | < 0.0002 |
| Silver (mg/l) | -- | 0.1 | -- | | | < 0.0001 |
| Sodium (mg/l) | -- | -- | -- | | | 11 |
| Strontium (mg/l) | -- | -- | -- | | | 0.11 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.2 | < 0.2 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.108 | 0.117 | 0.11 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | 0.023 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.021 | < 0.02 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.769 | 5.885 | 5.6 |

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | 0.0052 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.1 | 0.108 | 0.11 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | | | < 2.1 |
| **Dissolved Gasses** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.18 | 1.163 | 1.1 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 12.5 | 12.3 | 11 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 33.2 | 33.5 | 30 |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | < 0.0001 |
| Chromium (g/s) | -- | -- | -- | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/7/2010 12:00 AM<br>3141<br><br>Pennsylvania Departm... | 12/7/2010 12:00 AM<br>3142<br><br>Pennsylvania Departm... | 12/10/2010 3:04 PM<br>2329<br>AFTER TREATMENT<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | < 0.0003 |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | < 0.0002 |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | < 0.001 |
| **Water Quality Indicator Parameters** | | | | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

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|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.7449333 | | |
| Longitude | -- | -- | -- | -75.8838667 | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 270 | 192 | 193 |
| Chloride (mg/l) | -- | 250 | -- | 21.4 | 23 | 23.7 |
| DO (mg/l) | -- | -- | -- | 6.08 | 5.11 | 7.15 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 177.2 | 175.6 | 152.8 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.44 | 6.62 | 7.12 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 170 | 145 | 145 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 210 | 150 | 1.9 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 11,000 | < 8,700 | 79 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/10/2010 3:15 PM<br>2326<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/16/2010 5:08 PM<br>2328<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 | 12/16/2010 5:38 PM<br>2327<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.11 | 0.11 | < 0.11 |
| Boron (mg/l) | -- | -- | -- | 0.023 | | |
| Calcium (mg/l) | -- | -- | -- | 33 | 32 | 34 |
| Cadmium (mg/l) | 0.005 | -- | -- | < 0.0001 | < 0.0001 | < 0.0001 |
| Chromium (mg/l) | 0.1 | -- | -- | < 0.002 | < 0.002 | 0.002 |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | < 0.0003 | 0.001 | 0.00038 |
| Magnesium (mg/l) | -- | -- | -- | 6.2 | 5.8 | 6.1 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0077 | 0.0086 | 0.0058 |
| Mercury (mg/l) | 0.002 | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Potassium (mg/l) | -- | -- | -- | 1.2 | 1.2 | 1.2 |
| Selenium (mg/l) | 0.05 | -- | -- | < 0.002 | < 0.002 | < 0.002 |
| Silver (mg/l) | -- | 0.1 | -- | < 0.001 | < 0.001 | < 0.001 |
| Sodium (mg/l) | -- | -- | -- | 10 | 10 | 10 |
| Strontium (mg/l) | -- | -- | -- | 0.11 | 0.1 | 0.1 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | | |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.11 | 0.11 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.024 | | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.1 | 5.9 | 5.5 |

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|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0069 | 0.0081 | 0.0055 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.1 | 0.1 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | < 0.0001 | < 0.0001 | < 0.0001 |
| Calcium, Dissolved (mg/l) | -- | -- | -- | 33 | 33 | 31 |
| Chromium (g/s) | -- | -- | -- | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | < 0.002 |
| Lead, Dissolved (mg/l) | -- | -- | -- | < 0.0003 | < 0.0003 | 0.0002 |
| Mercury, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Potassium, Dissolved (mg/l) | -- | -- | -- | 1.1 | 1.1 | 1.1 |

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|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | < 0.002 | < 0.002 | < 0.002 |
| Silver, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | 10 | 10 | 9.8 |
| **Water Quality Indicator Parameters** | | | | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/21/2010 1:30 PM | 12/21/2010 1:41 PM | 12/28/2010 3:57 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 1946 | 1961 | 2324 |
| Sample Location: | | | | After Treatment | Before Treatment | After Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74495 | 41.74495 | |
| Longitude | -- | -- | -- | -75.88395 | -75.88395 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 0 | 0 | 0 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 269 | 264 | 201 |
| Chloride (mg/l) | -- | 250 | -- | 22.2 | 21.3 | 18.5 |
| DO (mg/l) | -- | -- | -- | 10.35 | 8.28 | 11.2 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 115.5 | 123.2 | 144.8 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.63 | 7.19 | 7.53 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 150 | 150 | 150 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 35 | 280 | 11 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 1,300 | 11,000 | 350 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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|---|---|---|---|---|---|---|
| Analysis ID: | | | | 1946 | 1961 | 2324 |
| Sample Location: | | | | After Treatment | Before Treatment | After Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | | | 0.016 |
| Arsenic (mg/l) | 0.01 | -- | -- | | | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | | | 0.13 |
| Boron (mg/l) | -- | -- | -- | | | 0.035 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | | | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | | | 6.2 |
| Manganese (mg/l) | -- | 0.05 | -- | | | 0.0047 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | | | 0.13 |
| Thallium (mg/l) | -- | -- | -- | | | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | | | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | | | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | | | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | | | 0.034 |
| Iron, Dissolved (mg/l) | -- | -- | -- | | | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | | | 6 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/21/2010 1:30 PM<br>1946<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/21/2010 1:41 PM<br>1961<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 12/28/2010 3:57 PM<br>2324<br>After Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | | | 0.0047 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | | | 0.13 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | | | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | | | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2 | < 2.1 | 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/21/2010 1:30 PM | 12/21/2010 1:41 PM | 12/28/2010 3:57 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 1946 | 1961 | 2324 |
| Sample Location: | | | | After Treatment | Before Treatment | After Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/28/2010 4:30 PM<br>2325<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/6/2011 1:29 PM<br>5408<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/6/2011 2:00 PM<br>5409<br>After treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 0 | 0 | 0 |
| CGI (%) | -- | -- | -- | | | |
| Conductivity (µS/cm) | -- | -- | -- | 194 | 206 | 213 |
| Chloride (mg/l) | -- | 250 | -- | 19.2 | 25.2 | 26.1 |
| DO (mg/l) | -- | -- | -- | 6.73 | 7.1 | 8.47 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 162.8 | 157.8 | 164 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.13 | 7.05 | 6.84 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 140 | 180 | 155 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 470 | 350 | 98 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 17,000 | 11,000 | 2,500 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/28/2010 4:30 PM<br>2325<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/6/2011 1:29 PM<br>5408<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/6/2011 2:00 PM<br>5409<br>After treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.014 | 0.0072 | 0.0058 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.11 | 0.12 | 0.13 |
| Boron (mg/l) | -- | -- | -- | 0.042 | 0.042 | 0.064 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.9 | 6.2 | 6.2 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0058 | 0.0052 | 0.006 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.12 | 0.12 | 0.14 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | 0.006 | 0.0046 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | 0.00045 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.12 | 0.12 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.042 | 0.051 | 0.064 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.9 | 6.1 | 5.8 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/28/2010 4:30 PM<br>2325<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/6/2011 1:29 PM<br>5408<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/6/2011 2:00 PM<br>5409<br>After treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0052 | 0.0057 | 0.0059 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.13 | 0.13 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/28/2010 4:30 PM<br>2325<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/6/2011 1:29 PM<br>5408<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/6/2011 2:00 PM<br>5409<br>After treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/13/2011 4:15 PM<br>5411<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/13/2011 4:45 PM<br>5410<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/20/2011 3:45 PM<br>5413<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 100 | 100 | 100 |
| CGI (%) | -- | -- | -- | | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 194 | 186 | 195 |
| Chloride (mg/l) | -- | 250 | -- | 24.1 | 25.2 | 27.1 |
| DO (mg/l) | -- | -- | -- | 7.73 | 7.01 | 7.4 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 163.8 | 176.6 | 157 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.8 | 6.73 | 7 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 152 | 172 | 144 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 430 | 130 | 510 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 13,000 | 3,300 | 17,000 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/13/2011 4:15 PM<br>5411<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/13/2011 4:45 PM<br>5410<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/20/2011 3:45 PM<br>5413<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.011 | 0.0066 | 0.015 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.00039 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.12 | 0.12 | 0.14 |
| Boron (mg/l) | -- | -- | -- | 0.08 | 0.055 | 0.057 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.1 | 6.4 | 6.3 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.006 | 0.0059 | 0.007 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.14 | 0.13 | 0.14 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.12 | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.078 | 0.054 | 0.051 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.8 | 6.1 | 5.9 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/13/2011 4:15 PM<br>5411<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/13/2011 4:45 PM<br>5410<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/20/2011 3:45 PM<br>5413<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0055 | 0.0055 | 0.0057 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.13 | 0.13 | 0.13 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **1/13/2011 4:15 PM**<br>**5411**<br>**Before Treatment in System Shed**<br>**Quantum Labs**<br>**Quantum** | **1/13/2011 4:45 PM**<br>**5410**<br>**After Treatment System in System Shed**<br>**Quantum Labs**<br>**Quantum** | **1/20/2011 3:45 PM**<br>**5413**<br>**BEFORE TREATMENT SYSTEM**<br>**Quantum Labs**<br>**Quantum** |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| | | | | **Well 1** | **Well 1** | **Well 1** |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/20/2011 4:20 PM<br>5412<br>After System Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 1/27/2011 2:48 PM<br>5414<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/27/2011 3:20 PM<br>5415<br>Before treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.74497233 | 41.74497233 |
| Longitude | -- | -- | -- | | -75.88391117 | -75.8839117 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 100 | 100 | 100 |
| CGI (%) | -- | -- | -- | 10 | 32 | 32 |
| Conductivity (µS/cm) | -- | -- | -- | 184 | 186 | 191 |
| Chloride (mg/l) | -- | 250 | -- | 24.5 | 25.9 | 26.4 |
| DO (mg/l) | -- | -- | -- | 6.64 | 11.63 | 9.27 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 159.9 | 139.6 | 147.3 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.92 | 7.09 | 6.96 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 136 | 144 | 156 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 76 | 170 | 570 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2,100 | 4,600 | 17,000 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/20/2011 4:20 PM | 1/27/2011 2:48 PM | 1/27/2011 3:20 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5412 | 5414 | 5415 |
| Sample Location: | | | | After System Treatment | After treatment in system shed | Before treatment in system shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.0066 | 0.0059 | 0.015 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | 0.00051 | 0.00041 |
| Barium (mg/l) | 2 | -- | -- | 0.14 | 0.13 | 0.12 |
| Boron (mg/l) | -- | -- | -- | 0.045 | 0.04 | 0.03 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.4 | 6.3 | 6.4 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0072 | 0.0075 | 0.007 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.14 | 140 | 0.13 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | 0.00046 | 0.00037 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.14 | 0.13 | 0.12 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.048 | 0.041 | 0.025 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.6 | 6.2 | 6.5 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/20/2011 4:20 PM<br>5412<br>After System Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 1/27/2011 2:48 PM<br>5414<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/27/2011 3:20 PM<br>5415<br>Before treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0073 | 0.0072 | 0.0064 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.15 | 0.14 | 0.13 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 1/20/2011 4:20 PM<br>5412<br>After System Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 1/27/2011 2:48 PM<br>5414<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 1/27/2011 3:20 PM<br>5415<br>Before treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/3/2011 3:30 PM<br>2123<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 2/3/2011 4:00 PM<br>2124<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 2/10/2011 2:38 PM<br>2233<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.7449705 | 41.7449705 | 41.74496 |
| Longitude | -- | -- | -- | -75.883914 | -75.883914 | -75.8839 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 100 | 100 | < 1 |
| CGI (%) | -- | -- | -- | 20 | 20 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 190 | 191 | 276 |
| Chloride (mg/l) | -- | 250 | -- | 18.4 | 19.7 | 17.9 |
| DO (mg/l) | -- | -- | -- | 9.54 | 12.01 | 12.86 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 138.3 | 137.6 | 160.6 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.04 | 7.19 | 7.31 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 127 | 127 | 167 |
| TSS (mg/l) | -- | -- | -- | 2.4 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 590 | 7.1 | 18 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 18,000 | 90 | 220 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/3/2011 3:30 PM<br>2123<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 2/3/2011 4:00 PM<br>2124<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 2/10/2011 2:38 PM<br>2233<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.011 | < 0.01 | < 0.01 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.00062 | 0.00046 | 0.0005 |
| Barium (mg/l) | 2 | -- | -- | 0.12 | 0.13 | 0.13 |
| Boron (mg/l) | -- | -- | -- | 0.06 | 0.043 | 0.047 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | 0.041 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6 | 6 | 6.8 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0071 | 0.005 | 0.0046 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.13 | 0.13 | 0.14 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | 0.026 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.0004 | 0.00052 | 0.00047 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.13 | 0.12 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.059 | 0.045 | 0.046 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | 0.028 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.8 | 6.1 | 6.6 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/3/2011 3:30 PM<br>2123<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 2/3/2011 4:00 PM<br>2124<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 2/10/2011 2:38 PM<br>2233<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0063 | 0.0065 | 0.0044 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.13 | 0.14 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/3/2011 3:30 PM<br>2123<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 2/3/2011 4:00 PM<br>2124<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 2/10/2011 2:38 PM<br>2233<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/10/2011 2:57 PM<br>2232<br>Before treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 2/17/2011 3:52 AM<br>2138<br>Pressure Tank- Before treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 2/17/2011 3:40 PM<br>2137<br>After treatment in Treatment Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74496 | 41.7449705 | 41.74495 |
| Longitude | -- | -- | -- | -75.8839 | -75.883914 | -75.88391 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 269 | 270 | 276 |
| Chloride (mg/l) | -- | 250 | -- | 20 | 26.2 | 23.4 |
| DO (mg/l) | -- | -- | -- | 8.24 | 8.53 | 12.77 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 166.9 | 185.6 | 178 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.2 | 6.93 | 7.01 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 180 | 133 | 140 |
| TSS (mg/l) | -- | -- | -- | < 2 | 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 460 | 580 | 35 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 14,000 | 16,000 | 960 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/10/2011 2:57 PM<br>2232<br>Before treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 2/17/2011 3:52 AM<br>2138<br>Pressure Tank- Before treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 2/17/2011 3:40 PM<br>2137<br>After treatment in Treatment Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.0057 | 0.017 | 0.0096 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.0004 | 0.00066 | 0.00071 |
| Barium (mg/l) | 2 | -- | -- | 0.12 | 0.12 | 0.12 |
| Boron (mg/l) | -- | -- | -- | 0.022 | 0.023 | 0.043 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 7 | 6.2 | 5.9 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0065 | 0.0076 | 0.0066 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.12 | 0.13 | 0.13 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.00045 | 0.00055 | 0.00066 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.12 | 0.12 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.021 | 0.022 | 0.044 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.9 | 6.1 | 5.8 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/10/2011 2:57 PM<br>2232<br>Before treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 2/17/2011 3:52 AM<br>2138<br>Pressure Tank- Before treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 2/17/2011 3:40 PM<br>2137<br>After treatment in Treatment Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.006 | 0.006 | 0.0063 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.12 | 0.13 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2 | < 2 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/10/2011 2:57 PM<br>2232<br>Before treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 2/17/2011 3:52 AM<br>2138<br>Pressure Tank- Before treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 2/17/2011 3:40 PM<br>2137<br>After treatment in Treatment Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/24/2011 3:40 PM | 2/24/2011 3:55 PM | 3/3/2011 3:30 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5417 | 5418 | 5419 |
| Sample Location: | | | | Pressure Tank | After treatment in system shed | After treatment in system shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74497567 | 41.74497567 | 41.7253944 |
| Longitude | -- | -- | -- | -75.88390383 | -75.88390383 | -75.883914 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 72 | 72 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 184 | 182 | 175 |
| Chloride (mg/l) | -- | 250 | -- | 29 | 29.6 | 32.7 |
| DO (mg/l) | -- | -- | -- | 9.19 | 16.35 | 15.01 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 167.1 | 148.1 | 162.5 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.9 | 7.26 | 7.12 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 200 | 144 | 172 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 230 | 6.5 | 5.8 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 9,700 | 330 | 330 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/24/2011 3:40 PM | 2/24/2011 3:55 PM | 3/3/2011 3:30 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5417 | 5418 | 5419 |
| Sample Location: | | | | Pressure Tank | After treatment in system shed | After treatment in system shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.016 | 0.01 | 0.0048 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.00053 | 0.00057 | 0.00052 |
| Barium (mg/l) | 2 | -- | -- | 0.11 | 0.11 | 0.11 |
| Boron (mg/l) | -- | -- | -- | 0.029 | 0.029 | 0.022 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.8 | 5.6 | 5.5 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0086 | 0.0061 | 0.006 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.1 | 0.11 | 0.1 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.00051 | 0.00053 | 0.00047 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.11 | 0.11 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.028 | 0.029 | 0.022 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.7 | 5.6 | 5.4 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 2/24/2011 3:40 PM<br>5417<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 | 2/24/2011 3:55 PM<br>5418<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 3/3/2011 3:30 PM<br>5419<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.008 | 0.0066 | 0.006 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.1 | 0.1 | 0.1 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | < 2.1 | < 2.3 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | | | | 2/24/2011 3:40 PM | 2/24/2011 3:55 PM | 3/3/2011 3:30 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5417 | 5418 | 5419 |
| Sample Location: | | | | Pressure Tank | After treatment in system shed | After treatment in system shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/3/2011 3:48 PM | 3/10/2011 3:35 PM | 3/10/2011 4:00 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5420 | 5439 | 5440 |
| Sample Location: | | | | BEFORE TREATMENT SYSTEM | After treatment in system shed | Pressure Tank |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.44699 | 41.74497417 | 41.74499083 |
| Longitude | -- | -- | -- | -75.53035 | -75.88390467 | -75.88390467 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | 17 | 17 |
| CGI (%) | -- | -- | -- | < 1 | 2 | 2 |
| Conductivity (µS/cm) | -- | -- | -- | 178 | 186 | 179 |
| Chloride (mg/l) | -- | 250 | -- | 35.2 | 23.7 | 23.1 |
| DO (mg/l) | -- | -- | -- | 10.17 | 11.94 | 8.41 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 183.7 | 140.3 | 163.4 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.65 | 7.28 | 6.84 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 168 | 128 | 120 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | 2.4 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 69 | 1.9 | 91 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 6,800 | 170 | 6,700 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/3/2011 3:48 PM<br>5420<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 | 3/10/2011 3:35 PM<br>5439<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 3/10/2011 4:00 PM<br>5440<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | 150 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.0087 | 0.0046 | < 0.01 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.0005 | 0.00056 | 0.00055 |
| Barium (mg/l) | 2 | -- | -- | 0.1 | 0.092 | 0.093 |
| Boron (mg/l) | -- | -- | -- | 0.021 | 0.018 | 0.019 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.03 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.3 | 5.1 | 5.1 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.011 | 0.0044 | 0.01 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.096 | 0.091 | 0.092 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.0005 | 0.00054 | 0.00051 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.1 | 0.09 | 0.091 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.022 | 0.018 | 0.019 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.4 | 5 | 5.1 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/3/2011 3:48 PM<br>5420<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Well 1 | 3/10/2011 3:35 PM<br>5439<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 3/10/2011 4:00 PM<br>5440<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0093 | 0.0042 | 0.0099 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.094 | 0.089 | 0.09 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.3 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/3/2011 3:48 PM<br>5420<br>BEFORE TREATMENT SYSTEM<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 3/10/2011 3:35 PM<br>5439<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 3/10/2011 4:00 PM<br>5440<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/17/2011 2:48 PM | 3/17/2011 3:00 PM | 3/24/2011 2:25 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5424 | 5422 | 5441 |
| Sample Location: | | | | After treatment in system shed | Pressure Tank | After treatment in system shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.7449667 | 41.7449667 | 41.74495 |
| Longitude | -- | -- | -- | -75.8839 | -75.8839 | -75.88391667 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 184 | 179 | 245 |
| Chloride (mg/l) | -- | 250 | -- | 24.6 | 21.5 | 26.9 |
| DO (mg/l) | -- | -- | -- | 11.77 | 9.67 | 13.5 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 168.8 | 179.9 | 185.4 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.9 | 6.53 | 7.22 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 124 | 132 | 140 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 2.2 | 43 | 0.58 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 270 | 3,300 | 62 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/17/2011 2:48 PM<br>5424<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 3/17/2011 3:00 PM<br>5422<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 | 3/24/2011 2:25 PM<br>5441<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.01 | 0.014 | 0.0076 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.1 | 0.093 | 0.094 |
| Boron (mg/l) | -- | -- | -- | 0.021 | 0.021 | 0.021 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 4.8 | 5.1 | 4.7 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.006 | 0.0093 | 0.0059 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.088 | 0.083 | 0.085 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | 0.0069 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.099 | 0.094 | 0.091 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.021 | 0.022 | 0.021 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 4.8 | 4.9 | 4.6 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/17/2011 2:48 PM<br>5424<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 3/17/2011 3:00 PM<br>5422<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 3/24/2011 2:25 PM<br>5441<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0057 | 0.0076 | 0.0057 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.089 | 0.085 | 0.082 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/17/2011 2:48 PM<br>5424<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 3/17/2011 3:00 PM<br>5422<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 | 3/24/2011 2:25 PM<br>5441<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

Ex. 6 - Personal Privacy

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/24/2011 2:39 PM | 3/31/2011 4:06 PM | 3/31/2011 4:16 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5442 | 5428 | 5426 |
| Sample Location: | | | | Pressure Tank | After treatment in system shed | Pressure Tank |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74495 | 41.7449833 | 41.74498333 |
| Longitude | -- | -- | -- | -75.88391667 | -75.88391667 | -75.88391667 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 244 | 244 | 243 |
| Chloride (mg/l) | -- | 250 | -- | 25.3 | 20.2 | 21 |
| DO (mg/l) | -- | -- | -- | 8.39 | 13.94 | 8.67 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 205.9 | 153.9 | 170 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.6 | 7.31 | 6.77 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 176 | 132 | 124 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 23 | 7.3 | 45 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 1,700 | 470 | 3,200 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:** | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | **3/24/2011 2:39 PM** | **3/31/2011 4:06 PM** | **3/31/2011 4:16 PM** |
|---|---|---|---|---|---|---|
| **Analysis ID:** | | | | **5442** | **5428** | **5426** |
| **Sample Location:** | | | | **Pressure Tank** | **After treatment in system shed** | **Pressure Tank** |
| **Laboratory:** | | | | **Quantum Labs** | **Quantum Labs** | **Quantum Labs** |
| **Collection Company:** | | | | **Quantum** | **Quantum** | **Quantum** |
| **Interviewer:** | | | | Ex. 6 - Personal Privacy | | |
| **Water Source:** | | | | **Well 1** | **Well 1** | **Well 1** |
| **Install Date:** | | | | | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.016 | < 0.01 | 0.0092 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.086 | 0.093 | 0.092 |
| Boron (mg/l) | -- | -- | -- | 0.02 | 0.017 | 0.021 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 4.8 | 5.1 | 5.1 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0073 | 0.0028 | 0.0072 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.079 | 0.09 | 0.089 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.023 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.043 | 0.092 | 0.086 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.0048 | 0.018 | 0.018 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 0.68 | 5.1 | 5.1 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/24/2011 2:39 PM<br>5442<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 3/31/2011 4:06 PM<br>5428<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 3/31/2011 4:16 PM<br>5426<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.0025 | 0.0028 | 0.0053 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.012 | 0.089 | 0.087 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 3/24/2011 2:39 PM | 3/31/2011 4:06 PM | 3/31/2011 4:16 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5442 | 5428 | 5426 |
| Sample Location: | | | | Pressure Tank | After treatment in system shed | Pressure Tank |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/5/2011 3:02 PM | 4/5/2011 3:15 PM | 4/12/2011 2:01 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 4388 | 5453 | 4397 |
| Sample Location: | | | | After treatment in system shed | Pressure Tank | AFTER TREATMENT SYSTEM IN SYSTEM SHED |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.7449333 | 41.744933 | 41.74491 |
| Longitude | -- | -- | -- | -75.88391667 | -75.88391667 | -75.88398 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 242 | 246 | 242 |
| Chloride (mg/l) | -- | 250 | -- | 37.8 | 33.8 | 32.9 |
| DO (mg/l) | -- | -- | -- | 13.85 | 8.91 | 12.6 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 127.6 | 150.1 | 208.2 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.3 | 6.78 | 6.79 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 100 | 108 | 47 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 3.6 | 92 | 8 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 260 | 5,200 | 480 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | < 0.0005 | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | < 0.0005 | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| Analysis ID: | | | | 4388 | 5453 | 4397 |
| Sample Location: | | | | After treatment in system shed | Pressure Tank | AFTER TREATMENT SYSTEM IN SYSTEM SHED |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | < 0.0005 | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | < 0.0005 | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.01 | 0.095 | < 0.01 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.00037 | 0.00038 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.091 | 0.089 | 0.093 |
| Boron (mg/l) | -- | -- | -- | 0.018 | 0.017 | 0.021 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.2 | 5.4 | 4.9 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0053 | 0.0074 | 0.0036 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.092 | 0.09 | 0.089 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.09 | 0.088 | 0.087 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.017 | 0.016 | 0.02 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.2 | 5.3 | 4.8 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/5/2011 3:02 PM<br>4388<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 4/5/2011 3:15 PM<br>5453<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 | 4/12/2011 2:01 PM<br>4397<br>AFTER TREATMENT SYSTEM IN SYSTEM SHED<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0051 | 0.0043 | 0.0033 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.09 | 0.089 | 0.086 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | < 0.0005 | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | < 0.0005 | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | < 0.0005 | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | < 0.0005 | | |
| Naphthalene (mg/l) | -- | -- | -- | < 0.0005 | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | < 0.0005 | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | < 0.0005 | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | < 0.0005 | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/5/2011 3:02 PM<br>4388<br>After treatment in system shed<br>Quantum Labs<br>Quantum<br>Well 1 | 4/5/2011 3:15 PM<br>5453<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 | 4/12/2011 2:01 PM<br>4397<br>AFTER TREATMENT SYSTEM IN SYSTEM SHED<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/12/2011 2:17 PM | 4/19/2011 2:27 PM | 4/19/2011 2:42 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5431 | 4420 | 4421 |
| Sample Location: | | | | Pressure Tank | After Treatment in System Shed | Before Treatment at Pressure Tank |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74491667 | 41.74496667 | 41.7449667 |
| Longitude | -- | -- | -- | -75.88398333 | -75.8839167 | -75.8839167 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | 20 | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 241 | 231 | 221 |
| Chloride (mg/l) | -- | 250 | -- | 14.4 | 27 | 32.3 |
| DO (mg/l) | -- | -- | -- | 9.08 | 12.79 | 8.76 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 223.3 | 207.8 | 228 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.39 | 7.19 | 6.64 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 93 | 164 | 108 |
| TSS (mg/l) | -- | -- | -- | < 2 | 2 | 2.4 |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 57 | 2.7 | 14 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 3,300 | 200 | 1,300 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/12/2011 2:17 PM<br>5431<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 | 4/19/2011 2:27 PM<br>4420<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 4/19/2011 2:42 PM<br>4421<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.0054 | 0.012 | 0.0077 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.085 | 0.088 | 0.074 |
| Boron (mg/l) | -- | -- | -- | 0.02 | 0.034 | 0.02 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 4.9 | 4.7 | 4.3 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.007 | 0.0095 | 0.0064 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.085 | 0.082 | 0.07 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.079 | 0.085 | 0.067 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.019 | 0.026 | 0.18 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 4.8 | 4.6 | 4.4 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/12/2011 2:17 PM<br>5431<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/19/2011 2:27 PM<br>4420<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 4/19/2011 2:42 PM<br>4421<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.0025 | 0.0089 | 0.0053 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.081 | 0.078 | 0.065 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/12/2011 2:17 PM<br>5431<br>Pressure Tank<br><br>Quantum Labs<br>Quantum<br>Well 1 | 4/19/2011 2:27 PM<br>4420<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 4/19/2011 2:42 PM<br>4421<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/26/2011 2:37 PM<br>4429<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/26/2011 2:49 PM<br>5435<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 | 5/3/2011 2:05 PM<br>5364<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | 41.74496667 |
| Longitude | -- | -- | -- | | | -75.88391667 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 182 | 170 | 177 |
| Chloride (mg/l) | -- | 250 | -- | 26 | 24.5 | 20.4 |
| DO (mg/l) | -- | -- | -- | 10.96 | 9.71 | 11.19 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 154.7 | 171.9 | 187.5 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.06 | 6.66 | 7.19 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 84 | 148 | 136 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | | | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 1.4 | 24 | 2.1 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 160 | 1,800 | 120 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/26/2011 2:37 PM<br>4429<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 4/26/2011 2:49 PM<br>5435<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/3/2011 2:05 PM<br>5364<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.01 | 0.01 | < 0.01 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.00037 | 0.00054 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.078 | 0.07 | 0.088 |
| Boron (mg/l) | -- | -- | -- | 0.017 | 0.017 | 0.022 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 4.7 | 4.6 | 4.6 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0081 | 0.006 | 0.01 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.078 | 0.071 | 0.085 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | 0.00038 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.077 | 0.07 | 0.088 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.017 | < 0.017 | < 0.02 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 4.6 | 4.6 | 4.4 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/26/2011 2:37 PM<br>4429<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 4/26/2011 2:49 PM<br>5435<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 | 5/3/2011 2:05 PM<br>5364<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.008 | 0.0054 | 0.0095 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.077 | 0.073 | 0.083 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 4/26/2011 2:37 PM<br>4429<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 4/26/2011 2:49 PM<br>5435<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/3/2011 2:05 PM<br>5364<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/3/2011 2:35 PM | 5/10/2011 2:30 PM | 5/10/2011 2:45 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5363 | 5454 | 5452 |
| Sample Location: | | | | Before Treatment at Pressure Tank | After Treatment in System Shed | Before Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74496667 | | 41.9272222 |
| Longitude | -- | -- | -- | -75.88391667 | | -75.89305556 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 165 | 174 | 175 |
| Chloride (mg/l) | -- | 250 | -- | 22.4 | 23.1 | 20.8 |
| DO (mg/l) | -- | -- | -- | 8.37 | 13.52 | 8.92 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 218.3 | 117.2 | 124.7 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.54 | 7.37 | 8.07 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 120 | 144 | 128 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 7.4 | 0.68 | 30 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 910 | 66 | 3,000 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/3/2011 2:35 PM<br>5363<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/10/2011 2:30 PM<br>5454<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/10/2011 2:45 PM<br>5452<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.01 | < 0.05 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | 0.072 | 0.083 | 0.08 |
| Boron (mg/l) | -- | -- | -- | 0.023 | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 4.4 | 4.89 | 4.23 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.0025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | 1.16 |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | 11.5 |
| Strontium (mg/l) | -- | -- | -- | 0.071 | 0.083 | 0.082 |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.005 | < 0.005 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.05 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.003 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.066 | 0.081 | 0.087 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.02 | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 4.2 | 4.82 | 4.81 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/3/2011 2:35 PM<br>5363<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 | 5/10/2011 2:30 PM<br>5454<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/10/2011 2:45 PM<br>5452<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0041 | < 0.025 | < 0.0025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.067 | 0.082 | 0.09 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.005 | < 0.005 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* If there is an aerator in the faucet it is removed prior to sampling.
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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/3/2011 2:35 PM<br>5363<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/10/2011 2:30 PM<br>5454<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/10/2011 2:45 PM<br>5452<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/17/2011 2:35 PM | 5/17/2011 2:50 PM | 5/24/2011 2:25 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5372 | 5373 | 5381 |
| Sample Location: | | | | After Treatment in System Shed | Before Treatment at Pressure Tank | After Treatment in System Shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.74497 | |
| Longitude | -- | -- | -- | | -75.88392 | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 192 | 183 | 190 |
| Chloride (mg/l) | -- | 250 | -- | 17.2 | 17.1 | 21.8 |
| DO (mg/l) | -- | -- | -- | 12.46 | 8.64 | 11.99 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 157.2 | 174 | 140.6 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.42 | 6.98 | 7.53 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 168 | 148 | 136 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 2 | 78 | 6.8 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 110 | 5,100 | 290 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/17/2011 2:35 PM<br>5372<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 5/17/2011 2:50 PM<br>5373<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 | 5/24/2011 2:25 PM<br>5381<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.0062 | 0.0068 | < 0.01 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.11 | 0.1 | 0.094 |
| Boron (mg/l) | -- | -- | -- | 0.037 | 0.032 | 0.019 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.029 | 0.075 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.5 | 5.5 | 4.8 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0093 | 0.0081 | 0.0081 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.11 | 0.1 | 0.086 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.1 | 0.1 | 0.098 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.036 | 0.031 | 0.019 |
| Iron, Dissolved (mg/l) | -- | -- | -- | 0.026 | 0.025 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.3 | 5.4 | 4.9 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/17/2011 2:35 PM<br>5372<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 5/17/2011 2:50 PM<br>5373<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 | 5/24/2011 2:25 PM<br>5381<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0088 | 0.0077 | 0.0073 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.11 | 0.089 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/17/2011 2:35 PM<br>5372<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/17/2011 2:50 PM<br>5373<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/24/2011 2:25 PM<br>5381<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/24/2011 2:50 PM<br>5382<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/31/2011 2:10 PM<br>5394<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/31/2011 2:38 PM<br>5395<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74497 | | 41.74496667 |
| Longitude | -- | -- | -- | -75.88392 | | -75.88391667 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 182 | 200 | 189 |
| Chloride (mg/l) | -- | 250 | -- | 20.8 | 21.8 | 19.9 |
| DO (mg/l) | -- | -- | -- | 12.3 | 14.23 | 9.58 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 160.4 | 162.2 | 195.5 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.84 | 7.36 | 6.55 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 140 | 128 | 140 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 130 | 1.1 | 85 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 6,900 | 97 | 4,300 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/24/2011 2:50 PM<br>5382<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/31/2011 2:10 PM<br>5394<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/31/2011 2:38 PM<br>5395<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 110 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | < 0.0005 | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.0064 | 0.008 | 0.013 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.1 | 0.091 | 0.097 |
| Boron (mg/l) | -- | -- | -- | 0.02 | 0.035 | 0.032 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | 0.027 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.3 | 4.8 | 5.2 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0099 | 0.012 | 0.013 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.093 | 0.09 | 0.097 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | 0.0057 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.097 | 0.082 | 0.096 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.019 | 0.044 | 0.033 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.1 | 4.5 | 5.1 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/24/2011 2:50 PM<br>5382<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 | 5/31/2011 2:10 PM<br>5394<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 5/31/2011 2:38 PM<br>5395<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0098 | 0.0087 | 0.013 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.092 | 0.082 | 0.096 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 5/24/2011 2:50 PM<br>5382<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/31/2011 2:10 PM<br>5394<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 5/31/2011 2:38 PM<br>5395<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/7/2011 2:25 PM | 6/7/2011 2:35 PM | 6/14/2011 1:20 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5468 | 5469 | 5445 |
| Sample Location: | | | | After Treatment in System Shed | Before Treatment at Pressure Tank | Before Treatment at Pressure Tank |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.74496667 | 41.74496667 |
| Longitude | -- | -- | -- | | -75.88391667 | -75.88391667 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 208 | 186 | 183 |
| Chloride (mg/l) | -- | 250 | -- | 18.5 | 20.1 | 19.4 |
| DO (mg/l) | -- | -- | -- | 12.36 | 10.17 | 9.79 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 130.6 | 138.1 | 173.1 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.55 | 7.27 | 6.64 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 152 | 124 | 124 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 0.5 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 2.8 | 150 | 380 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 120 | 8,400 | 12,000 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/7/2011 2:25 PM<br>5468<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 6/7/2011 2:35 PM<br>5469<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 | 6/14/2011 1:20 PM<br>5445<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.01 | 0.0053 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.003 |
| Barium (mg/l) | 2 | -- | -- | 0.099 | 0.099 | 0.097 |
| Boron (mg/l) | -- | -- | -- | 0.031 | 0.022 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.2 | 5.4 | 5.63 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.01 | 0.0095 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.1 | 0.097 | 0.095 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.005 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.002 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.097 | 0.1 | 0.093 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.032 | 0.022 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.1 | 5.4 | 5.49 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/7/2011 2:25 PM<br>5468<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/7/2011 2:35 PM<br>5469<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/14/2011 1:20 PM<br>5445<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0086 | 0.0095 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.099 | 0.1 | 0.093 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.005 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/7/2011 2:25 PM<br>5468<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 6/7/2011 2:35 PM<br>5469<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 | 6/14/2011 1:20 PM<br>5445<br>Before Treatment at Pressure Tank<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/14/2011 1:40 PM<br>5444<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/21/2011 1:17 PM<br>5481<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/21/2011 1:25 PM<br>5482<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 194 | 243 | 240 |
| Chloride (mg/l) | -- | 250 | -- | 19.1 | 20 | 19.4 |
| DO (mg/l) | -- | -- | -- | 11.24 | 11.3 | 7.17 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 155.8 | 81.3 | 92.9 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.18 | 7.34 | 6.83 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 116 | 156 | 136 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | 2.4 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 0.5 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 20 | 10 | 170 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 810 | 400 | 7,500 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/14/2011 1:40 PM<br>5444<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/21/2011 1:17 PM<br>5481<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 6/21/2011 1:25 PM<br>5482<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.01 | 0.0064 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.003 | 0.00062 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.1 | 0.099 | 0.1 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | 0.038 | 0.022 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.55 | 5.3 | 5.5 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | 0.011 | 0.012 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.999 | 0.099 | 0.1 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.005 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.003 | 0.00063 | 0.00044 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.097 | 0.098 | 0.1 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | 0.035 | 0.019 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.42 | 5.2 | 5.4 |

**Notes:**

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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/14/2011 1:40 PM<br>5444<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/21/2011 1:17 PM<br>5481<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 6/21/2011 1:25 PM<br>5482<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | 0.0098 | 0.011 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.097 | 0.099 | 0.1 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.005 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **6/14/2011 1:40 PM**<br>**5444**<br>**After Treatment in System Shed**<br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **6/21/2011 1:17 PM**<br>**5481**<br>**After Treatment in System Shed**<br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** | **6/21/2011 1:25 PM**<br>**5482**<br>**Pressure Tank Before Treatment**<br>**Quantum Labs**<br>**Quantum**<br>Ex. 6 - Personal Privacy<br>**Well 1** |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/29/2011 1:30 PM<br>5492<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 6/29/2011 1:45 PM<br>5493<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 7/6/2011 1:45 PM<br>5501<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 246 | 242 | 160 |
| Chloride (mg/l) | -- | 250 | -- | 28.6 | 28.1 | 24.3 |
| DO (mg/l) | -- | -- | -- | 5.28 | 4.94 | 14.16 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 200.7 | 178.9 | 240.8 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.6 | 7.33 | 8.2 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 156 | 176 | 188 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 12 | 200 | 5.4 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 530 | 10,000 | 300 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/29/2011 1:30 PM<br>5492<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 6/29/2011 1:45 PM<br>5493<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 7/6/2011 1:45 PM<br>5501<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.01 | 0.0054 | 0.0054 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.00056 | 0.00055 | 0.00063 |
| Barium (mg/l) | 2 | -- | -- | 0.11 | 0.11 | 0.11 |
| Boron (mg/l) | -- | -- | -- | 0.033 | 0.039 | 0.056 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.9 | 5.8 | 5.8 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.012 | 0.011 | 0.014 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.12 | 0.11 | 0.13 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.00056 | 0.00069 | 0.00068 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.11 | 0.11 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.031 | 0.036 | 0.055 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.9 | 5.6 | 5.5 |

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 6/29/2011 1:30 PM<br>5492<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 6/29/2011 1:45 PM<br>5493<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 7/6/2011 1:45 PM<br>5501<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.011 | 0.006 | 0.013 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.11 | 0.12 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.2 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| **Date of Survey:**<br>**Analysis ID:**<br>**Sample Location:**<br><br>**Laboratory:**<br>**Collection Company:**<br>**Interviewer:**<br>**Water Source:**<br>**Install Date:** | **Primary Max. Contaminant Levels[1]** | **Secondary Max. Contaminant Levels[2]** | **Recommended Action Levels[3]** | **6/29/2011 1:30 PM**<br>**5492**<br>**After Treatment in System Shed**<br>**Quantum Labs**<br>**Quantum**<br>**Well 1** | **6/29/2011 1:45 PM**<br>**5493**<br>**Pressure Tank Before Treatment**<br>**Quantum Labs**<br>**Quantum**<br>**Well 1** | **7/6/2011 1:45 PM**<br>**5501**<br>**After Treatment in System Shed**<br>**Quantum Labs**<br>**Quantum**<br>**Well 1** |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/6/2011 2:05 PM<br>5502<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 7/13/2011 1:10 PM<br>5512<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 7/13/2011 2:15 PM<br>5513<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | | |
| Longitude | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 146 | 184 | 162 |
| Chloride (mg/l) | -- | 250 | -- | 29.8 | 29.1 | 29.1 |
| DO (mg/l) | -- | -- | -- | 8.42 | 8.85 | 9.64 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 200.2 | 293.7 | 157.1 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.05 | 8.37 | 8.07 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 152 | 168 | 176 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 44 | 0.11 | 2 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2,500 | 140 | 220 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/6/2011 2:05 PM<br>5502<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 7/13/2011 1:10 PM<br>5512<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 7/13/2011 2:15 PM<br>5513<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 110 | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.018 | 0.0066 | 0.0033 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.00061 | 0.00073 | 0.00074 |
| Barium (mg/l) | 2 | -- | -- | 0.11 | 0.13 | 0.13 |
| Boron (mg/l) | -- | -- | -- | 0.026 | 0.099 | 0.054 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | 0.028 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.2 | 5.6 | 6.1 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.019 | 0.0098 | 0.0053 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.12 | 0.14 | 0.14 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.00052 | 0.00067 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.13 | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.024 | 0.1 | 0.052 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6 | 5.4 | 6 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/6/2011 2:05 PM<br>5502<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 7/13/2011 1:10 PM<br>5512<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 | 7/13/2011 2:15 PM<br>5513<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0091 | 0.01 | 0.0041 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.14 | 0.14 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | 0.0003 | 0.00031 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/6/2011 2:05 PM<br>5502<br>Pressure Tank Before Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/13/2011 1:10 PM<br>5512<br>After treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/13/2011 2:15 PM<br>5513<br>Before Treatment<br><br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/20/2011 1:25 PM | 7/20/2011 1:42 PM | 7/27/2011 1:09 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 5725 | 5726 | 5727 |
| Sample Location: | | | | After Treatment System in System Shed | Before Treatment System in System Shed | After Treatment System |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74498 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88391 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 268 | 305 | 282 |
| Chloride (mg/l) | -- | 250 | -- | 28.8 | 28.6 | 31.8 |
| DO (mg/l) | -- | -- | -- | 6.89 | 8.45 | 9.7 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 212 | 172 | 181 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.2 | 7.71 | 7.69 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 108 | 104 | 116 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0.048 | 2.2 | 14 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2.7 | 120 | 600 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/20/2011 1:25 PM<br>5725<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 7/20/2011 1:42 PM<br>5726<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 7/27/2011 1:09 PM<br>5727<br>After Treatment System<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 110 | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Barium (mg/l) | 2 | -- | -- | 0.114 | 0.118 | 0.126 |
| Boron (mg/l) | -- | -- | -- | 0.104 | 0.0507 | 0.102 |
| Calcium (mg/l) | -- | -- | -- | | | 29.8 |
| Cadmium (mg/l) | 0.005 | -- | -- | | | < 0.001 |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | < 0.005 | < 0.005 | < 0.005 |
| Magnesium (mg/l) | -- | -- | -- | 4.83 | 5.57 | 5.49 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0335 | < 0.015 | 0.0239 |
| Mercury (mg/l) | 0.002 | -- | -- | | | < 0.0002 |
| Potassium (mg/l) | -- | -- | -- | | | < 1 |
| Selenium (mg/l) | 0.05 | -- | -- | | | < 0.01 |
| Silver (mg/l) | -- | 0.1 | -- | | | < 0.005 |
| Sodium (mg/l) | -- | -- | -- | | | 22.3 |
| Strontium (mg/l) | -- | -- | -- | 0.13 | 0.139 | 0.149 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.02 | < 0.02 | < 0.02 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | 0.009 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.00063 | 0.00059 | 0.00058 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.14 | 0.14 | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.057 | 0.11 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.1 | 5.7 | 5.2 |

**Notes:**

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[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/20/2011 1:25 PM<br>5725<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 7/20/2011 1:42 PM<br>5726<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 7/27/2011 1:09 PM<br>5727<br>After Treatment System<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.041 | 0.01 | 0.021 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.15 | 0.15 | 0.15 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.2 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | < 0.005 |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/20/2011 1:25 PM<br>5725<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 7/20/2011 1:42 PM<br>5726<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 7/27/2011 1:09 PM<br>5727<br>After Treatment System<br><br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

Ex. 6 - Personal Privacy

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Ex. 6 - Personal Privacy

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| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/27/2011 1:35 PM<br>5728<br>Before Treatment System<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/3/2011 1:35 PM<br>5729<br>After Treatment System<br>in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/3/2011 1:54 PM<br>5730<br>Before Treatment System<br>in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74498 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88391 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 240 | 282 | 267 |
| Chloride (mg/l) | -- | 250 | -- | 32.3 | 22.1 | 21.7 |
| DO (mg/l) | -- | -- | -- | 7.22 | 8.82 | 6.79 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 201 | 141 | 165 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.06 | 7.86 | 7.28 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 92 | 152 | 136 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 160 | 1.3 | 14 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 6,700 | 81 | 1,300 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | 0.13 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 110 | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | 0.1 | 0.149 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Barium (mg/l) | 2 | -- | -- | 0.131 | 0.122 | 0.13 |
| Boron (mg/l) | -- | -- | -- | < 0.05 | 0.0994 | < 0.05 |
| Calcium (mg/l) | -- | -- | -- | 36.5 | | |
| Cadmium (mg/l) | 0.005 | -- | -- | < 0.001 | | |
| Chromium (mg/l) | 0.1 | -- | -- | < 0.005 | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | < 0.005 | | |
| Magnesium (mg/l) | -- | -- | -- | 6.64 | 5.09 | 6.19 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0262 | 0.0191 | 0.0262 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | < 1 | | |
| Selenium (mg/l) | 0.05 | -- | -- | < 0.01 | | |
| Silver (mg/l) | -- | 0.1 | -- | < 0.005 | | |
| Sodium (mg/l) | -- | -- | -- | 8.68 | | |
| Strontium (mg/l) | -- | -- | -- | 0.155 | 0.13 | 0.144 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.02 | < 0.02 | < 0.02 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.0088 | 0.012 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.00054 | 0.00065 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.14 | 0.12 | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.027 | 0.1 | 0.046 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.2 | 5.1 | 5.9 |

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0014 | 0.018 | 0.016 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.15 | 0.14 | 0.15 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | < 2.1 | < 2.2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 7/27/2011 1:35 PM<br>5728<br>Before Treatment System<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/3/2011 1:35 PM<br>5729<br>After Treatment System<br>in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/3/2011 1:54 PM<br>5730<br>Before Treatment System<br>in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | < 0.11 |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/10/2011 1:15 PM<br>5731<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/10/2011 1:40 PM<br>5732<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/17/2011 1:08 PM<br>6030<br>After Treatment In System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 185 | 159 | 182 |
| Chloride (mg/l) | -- | 250 | -- | 22.1 | 21.9 | 21.3 |
| DO (mg/l) | -- | -- | -- | 7.96 | 7.02 | 6.9 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 197.5 | 187.9 | 174.1 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.76 | 6.64 | 7.75 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 140 | 140 | 112 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 0.024 | 1.8 | 2.2 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 0.71 | 72 | 96 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/10/2011 1:15 PM<br>5731<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 8/10/2011 1:40 PM<br>5732<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 8/17/2011 1:08 PM<br>6030<br>After Treatment In System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 110 | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.01 | < 0.01 | 0.0071 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.13 | 0.14 | 0.13 |
| Boron (mg/l) | -- | -- | -- | 0.11 | 0.071 | 0.091 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.2 | 5.9 | 5.4 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.006 | 0.01 | 0.011 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.15 | 0.16 | 0.14 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | 0.0048 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.00059 | < 0.001 | 0.00063 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.13 | 0.13 | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.061 | 0.084 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.1 | 5.7 | 5.3 |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/10/2011 1:15 PM<br>5731<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 8/10/2011 1:40 PM<br>5732<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/17/2011 1:08 PM<br>6030<br>After Treatment In System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0066 | 0.007 | 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.15 | 0.15 | 0.14 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.2 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/10/2011 1:15 PM<br>5731<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/10/2011 1:40 PM<br>5732<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/17/2011 1:08 PM<br>6030<br>After Treatment In System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | | |
| Conductivity (µS/cm) | -- | -- | -- | 168 | 271 | 245 |
| Chloride (mg/l) | -- | 250 | -- | 20.4 | 26.9 | 21.6 |
| DO (mg/l) | -- | -- | -- | 5.95 | 9.05 | 7.25 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 201.8 | 147 | 167 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.09 | 7.6 | 7.45 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 110 | 120 | 114 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 41 | 1.9 | 43 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2,700 | 99 | 2,200 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 100 | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.039 | 0.007 | 0.007 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | 0.00063 | 0.00058 |
| Barium (mg/l) | 2 | -- | -- | 0.13 | 0.13 | 0.13 |
| Boron (mg/l) | -- | -- | -- | 0.094 | 0.078 | 0.065 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.4 | 5.8 | 5.8 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.02 | 0.013 | 0.022 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.14 | 0.14 | 0.15 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | 0.00032 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.007 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | 0.00067 | 0.00058 | < 0.00055 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.13 | 0.13 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.081 | 0.071 | 0.057 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.13 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.3 | 5.6 | 15 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/17/2011 1:35 PM<br>6031<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 8/24/2011 1:45 PM<br>6039<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 8/24/2011 2:15 PM<br>6040<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.014 | 0.014 | 0.019 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.14 | 0.14 | 0.14 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/17/2011 1:35 PM<br>6031<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/24/2011 1:45 PM<br>6039<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 8/24/2011 2:15 PM<br>6040<br>Before Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/31/2011 1:45 PM | 8/31/2011 2:00 PM | 9/7/2011 12:20 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 6460 | 6461 | 6469 |
| Sample Location: | | | | After Treatment System in System Shed | Before Treatment System in System Shed | After Treatment System in System Shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 158 | 148 | 159 |
| Chloride (mg/l) | -- | 250 | -- | 21.2 | 22.5 | 23.1 |
| DO (mg/l) | -- | -- | -- | 6.99 | 5.21 | 6.2 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 146.9 | 164.1 | 267.1 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.05 | 6.33 | 7.62 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 170 | 175 | 168 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | 8 | 21 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | 8 | 21 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 7.1 | 200 | 6.1 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 130 | 8,300 | 200 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/31/2011 1:45 PM<br>6460<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 8/31/2011 2:00 PM<br>6461<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/7/2011 12:20 PM<br>6469<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 100 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.0054 | 0.0083 | < 0.01 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.00039 |
| Barium (mg/l) | 2 | -- | -- | 0.12 | 0.09 | 0.12 |
| Boron (mg/l) | -- | -- | -- | 0.047 | 0.027 | 0.023 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.6 | 5.8 | 6 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.018 | 0.014 | 0.012 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.13 | 0.089 | 0.12 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.088 | 0.12 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.049 | 0.028 | 0.023 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.5 | 5,500 | 5.9 |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 8/31/2011 1:45 PM<br>6460<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 8/31/2011 2:00 PM<br>6461<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/7/2011 12:20 PM<br>6469<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.016 | 0.016 | 0.01 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.13 | 0.086 | 0.12 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

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|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/7/2011 12:45 PM<br>6470<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2011 1:05 PM<br>6514<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2011 1:20 PM<br>6515<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 145 | 159 | 174 |
| Chloride (mg/l) | -- | 250 | -- | 24.3 | 43.1 | 38.4 |
| DO (mg/l) | -- | -- | -- | 6.54 | 5.66 | 5.84 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 267.1 | 239.5 | 229.9 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.46 | 6.47 | 7.31 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 180 | 180 | 224 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | | | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 240 | 1.4 | 37 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.047 |
| Methane (µg/l) | -- | -- | 28000 | 11,000 | 110 | 3,800 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.0063 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/7/2011 12:45 PM<br>6470<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/15/2011 1:05 PM<br>6514<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/15/2011 1:20 PM<br>6515<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 110 | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.01 | < 0.01 | 0.0054 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.12 | 0.12 | 0.11 |
| Boron (mg/l) | -- | -- | -- | 0.021 | 0.023 | 0.022 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.9 | 5.8 | 5.7 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.021 | 0.017 | 0.023 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.12 | 0.1 | 0.1 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | 0.0003 | 0.0003 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.11 | 0.11 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.021 | 0.023 | 0.022 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.9 | 5.6 | 5.6 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/7/2011 12:45 PM<br>6470<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/15/2011 1:05 PM<br>6514<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/15/2011 1:20 PM<br>6515<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.02 | 0.014 | 0.022 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.099 | 0.098 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.0002 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | 0.0003 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/7/2011 12:45 PM<br>6470<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/15/2011 1:05 PM<br>6514<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/15/2011 1:20 PM<br>6515<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**

Ex. 6 - Personal Privacy

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/21/2011 12:48 PM<br>7400<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/21/2011 1:10 PM<br>7402<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/28/2011 1:25 PM<br>9481<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 261 | 259 | 171 |
| Chloride (mg/l) | -- | 250 | -- | 25.6 | 24.2 | 28.6 |
| DO (mg/l) | -- | -- | -- | 9.35 | 6.47 | 6.22 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 161 | 182 | 168.2 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.37 | 6.93 | 7 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 160 | 160 | 172 |
| TSS (mg/l) | -- | -- | -- | < 2 | 5.6 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 6.4 | 170 | 0.51 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 280 | 9,600 | 58 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/21/2011 12:48 PM<br>7400<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/21/2011 1:10 PM<br>7402<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/28/2011 1:25 PM<br>9481<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 110 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | 0.015 | 0.0088 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | 0.00058 | < 0.00041 | < 0.01 |
| Barium (mg/l) | 2 | -- | -- | 0.12 | 0.11 | 0.13 |
| Boron (mg/l) | -- | -- | -- | 0.02 | 0.02 | < 0.05 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.7 | 5.8 | 5.9 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.011 | 0.022 | 0.012 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.1 | 0.1 | 0.11 |
| Thallium (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.015 |
| Vanadium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.00059 | < 0.00048 | < 0.01 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.12 | 0.11 | 0.121 |
| Boron, Dissolved (mg/l) | -- | -- | -- | 0.02 | 0.02 | < 0.05 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.6 | 5.7 | 5.7 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/21/2011 12:48 PM<br>7400<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 9/21/2011 1:10 PM<br>7402<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/28/2011 1:25 PM<br>9481<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0095 | 0.022 | 0.011 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.1 | 0.11 | 0.099 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.0002 | < 0.0002 | < 0.015 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.3 | < 2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/21/2011 12:48 PM<br>7400<br>After Treatment in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/21/2011 1:10 PM<br>7402<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 9/28/2011 1:25 PM<br>9481<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/28/2011 1:40 PM | 10/5/2011 12:55 PM | 10/5/2011 1:10 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 9483 | 7428 | 7430 |
| Sample Location: | | | | Before Treatment System in System Shed | Before Treatment System in System Shed | After Treatment System in System Shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 155 | 154 | 163 |
| Chloride (mg/l) | -- | 250 | -- | 29 | 46.4 | 44.1 |
| DO (mg/l) | -- | -- | -- | 6.66 | 6.57 | 8.35 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 194.1 | 357.8 | 338.1 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.72 | 6.36 | 7.58 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 108 | 110 | 160 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 120 | 0.41 | 6.4 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 6,400 | 75 | 590 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/28/2011 1:40 PM<br>9483<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/5/2011 12:55 PM<br>7428<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/5/2011 1:10 PM<br>7430<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 110 | < 100 | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Barium (mg/l) | 2 | -- | -- | 0.12 | 0.093 | 0.08 |
| Boron (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.04 | < 0.04 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6 | 4.8 | 4.5 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.019 | 0.012 | 0.014 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.11 | 0.079 | 0.071 |
| Thallium (mg/l) | -- | -- | -- | < 0.015 | < 0.15 | < 0.15 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.109 | 0.098 | 0.1 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.04 | < 0.04 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6.1 | 4.8 | 5.6 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/28/2011 1:40 PM<br>9483<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/5/2011 12:55 PM<br>7428<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/5/2011 1:10 PM<br>7430<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.019 | 0.0097 | 0.015 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.11 | 0.08 | 0.089 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.015 | < 0.15 | < 0.15 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 9/28/2011 1:40 PM<br>9483<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/5/2011 12:55 PM<br>7428<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/5/2011 1:10 PM<br>7430<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/11/2011 1:42 PM | 10/11/2011 1:47 PM | 10/18/2011 1:40 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 9345 | 9347 | 7353 |
| Sample Location: | | | | After Treatment System in System Shed | Before Treatment System in System Shed | Before Treatment System in System Shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 148 | 140 | 145 |
| Chloride (mg/l) | -- | 250 | -- | 27.6 | 25.3 | 18 |
| DO (mg/l) | -- | -- | -- | 8.94 | 9.62 | 5.77 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 172.9 | 188 | 224.4 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.61 | 7.14 | 6.01 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 120 | 124 | 152 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | 1.24 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | < 1 |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 2.4 | 33 | 0.43 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 240 | 2,600 | 42 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/11/2011 1:42 PM<br>9345<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/11/2011 1:47 PM<br>9347<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/18/2011 1:40 PM<br>7353<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 110 | < 100 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Barium (mg/l) | 2 | -- | -- | 0.0911 | 0.0927 | 0.105 |
| Boron (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.04 | < 0.04 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.19 | 5.57 | 5.93 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0105 | 0.0142 | 0.0118 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.0852 | 0.0874 | 0.0996 |
| Thallium (mg/l) | -- | -- | -- | < 0.015 | < 0.015 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.099 | 0.099 | 0.097 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.04 | < 0.04 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.4 | 5.8 | 5.39 |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/11/2011 1:42 PM<br>9345<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/11/2011 1:47 PM<br>9347<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/18/2011 1:40 PM<br>7353<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0093 | 0.013 | 0.0117 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.091 | 0.093 | 0.09 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.015 | < 0.015 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/11/2011 1:42 PM<br>9345<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/11/2011 1:47 PM<br>9347<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/18/2011 1:40 PM<br>7353<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/18/2011 2:10 PM<br>7355<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/25/2011 1:10 PM<br>9285<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/25/2011 1:15 PM<br>9289<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 149 | 143 | 138 |
| Chloride (mg/l) | -- | 250 | -- | 19.1 | 35.2 | 32.3 |
| DO (mg/l) | -- | -- | -- | 8.91 | 8.79 | 10 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 206.1 | 184 | 193.7 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.02 | 7.1 | 6.95 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 156 | 112 | 128 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | 1.19 | 1.22 | 1.11 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | 6 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 14 | 6.5 | 32 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 1,500 | 510 | 2,900 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/18/2011 2:10 PM<br>7355<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/25/2011 1:10 PM<br>9285<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/25/2011 1:15 PM<br>9289<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | < 100 | < 100 | < 110 |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.001 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.01 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.1 | 0.0917 | 0.0751 |
| Boron (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.04 | < 0.04 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.83 | 5.5 | 5.22 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0165 | < 0.005 | 0.0094 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.0958 | 0.0876 | 0.0755 |
| Thallium (mg/l) | -- | -- | -- | < 0.01 | < 0.001 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.001 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.0946 | 0.0882 | 0.0731 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.04 | < 0.04 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.4 | 5.28 | 5 |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/18/2011 2:10 PM<br>7355<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/25/2011 1:10 PM<br>9285<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 10/25/2011 1:15 PM<br>9289<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0148 | < 0.005 | 0.009 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.0892 | 0.084 | 0.0727 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | < 2.1 | < 2.2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/18/2011 2:10 PM<br>7355<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/25/2011 1:10 PM<br>9285<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/25/2011 1:15 PM<br>9289<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | | | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/27/2011 11:02 AM | 10/27/2011 11:15 AM | 11/3/2011 1:00 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 10879 | 10877 | 10950 |
| Sample Location: | | | | At Pressure Tank in Water Treatment Shed | Post-treatment hose bib in water treatment shed | After Treatment System in System Shed |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Moody & Associates | Moody & Associates | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.744962 | 41.744962 | 41.74487 |
| Longitude | -- | -- | -- | -75.883883 | -75.883883 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | 0 | 0 | < 1 |
| CGI (%) | -- | -- | -- | | | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 224 | 235 | 146 |
| Chloride (mg/l) | -- | 250 | -- | 31.2 | 31.3 | 25.2 |
| DO (mg/l) | -- | -- | -- | 4.7 | 9.48 | 10.4 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 150.3 | 192.1 | 203.3 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 6.53 | 6.98 | 7.76 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | 1 | 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 152 | 112 | 152 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 1.9 | 0.77 | 2.8 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 350 | 58 | 140 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.018 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
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* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/27/2011 11:02 AM<br>10879<br>At Pressure Tank in Water Treatment Shed<br>Quantum Labs<br>Moody & Associates<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/27/2011 11:15 AM<br>10877<br>Post-treatment hose bib in water treatment shed<br>Quantum Labs<br>Moody & Associates<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/3/2011 1:00 PM<br>10950<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.09 | 0.095 | 0.093 |
| Boron (mg/l) | -- | -- | -- | < 0.5 | < 0.5 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | 31.3 |
| Cadmium (mg/l) | 0.005 | -- | -- | | | < 0.002 |
| Chromium (mg/l) | 0.1 | -- | -- | | | < 0.005 |
| Iron (mg/l) | -- | 0.3 | -- | < 0.04 | < 0.04 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 6.08 | 6.26 | 5.82 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | 1.15 |
| Selenium (mg/l) | 0.05 | -- | -- | < 0.001 | < 0.0001 | |
| Silver (mg/l) | -- | 0.1 | -- | | | < 0.01 |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.094 | 0.1 | 0.098 |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | < 0.005 | < 0.005 | < 0.005 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.09 | 0.095 | 0.098 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.5 | < 0.5 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.04 | < 0.04 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.4 | 5.5 | 5.85 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/27/2011 11:02 AM<br>10879<br>At Pressure Tank in Water Treatment Shed<br>Quantum Labs<br>Moody & Associates<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/27/2011 11:15 AM<br>10877<br>Post-treatment hose bib in water treatment shed<br>Quantum Labs<br>Moody & Associates<br>Well 1 | 11/3/2011 1:00 PM<br>10950<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.094 | 0.099 | 0.098 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.005 | < 0.005 | < 0.005 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 1.9 | < 1.9 | < 2 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | < 0.002 |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | 31 |
| Chromium (g/s) | -- | -- | -- | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 10/27/2011 11:02 AM<br>10879<br>At Pressure Tank in Water Treatment Shed<br>Quantum Labs<br>Moody & Associates<br>Ex. 6 - Personal Privacy<br>Well 1 | 10/27/2011 11:15 AM<br>10877<br>Post-treatment hose bib in water treatment shed<br>Quantum Labs<br>Moody & Associates<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/3/2011 1:00 PM<br>10950<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | 1.3 |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | < 0.01 |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | 12.3 |
| **Water Quality Indicator Parameters** | | | | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | < 0.096 | < 0.093 | < 0.11 |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/3/2011 1:10 PM<br>10952<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 11/8/2011 1:10 PM<br>10970<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 11/8/2011 1:15 PM<br>10972<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 134 | 143 | 132 |
| Chloride (mg/l) | -- | 250 | -- | 24 | 20.8 | 20.4 |
| DO (mg/l) | -- | -- | -- | 8.91 | 7.26 | 7.29 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 220.1 | 248 | 282.9 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.17 | 7.98 | 7.34 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 152 | 144 | 128 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 23 | 1 | 28 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 2,000 | 59 | 2,900 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/3/2011 1:10 PM<br>10952<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 11/8/2011 1:10 PM<br>10970<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 11/8/2011 1:15 PM<br>10972<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.072 | 0.094 | 0.095 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | 30.8 | | |
| Cadmium (mg/l) | 0.005 | -- | -- | < 0.002 | | |
| Chromium (mg/l) | 0.1 | -- | -- | < 0.005 | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.04 | < 0.04 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.65 | 5.79 | 5.7 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | 1.04 | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | < 0.01 | | |
| Sodium (mg/l) | -- | -- | -- | 10.8 | | |
| Strontium (mg/l) | -- | -- | -- | 0.078 | 0.1 | 0.093 |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.015 | < 0.015 |
| Vanadium (mg/l) | -- | -- | -- | < 0.005 | < 0.005 | < 0.005 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.072 | 0.093 | 0.077 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.04 | < 0.04 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.67 | 5.73 | 5.65 |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/3/2011 1:10 PM<br>10952<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 11/8/2011 1:10 PM<br>10970<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 | 11/8/2011 1:15 PM<br>10972<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.078 | 0.099 | 0.082 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.015 | < 0.015 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.005 | < 0.005 | < 0.005 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/3/2011 1:10 PM<br>10952<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/8/2011 1:10 PM<br>10970<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/8/2011 1:15 PM<br>10972<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | < 0.11 | < 0.1 | < 0.11 |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/17/2011 1:20 PM | 11/17/2011 1:30 PM | 11/21/2011 1:15 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 11693 | 11695 | 11754 |
| Sample Location: | | | | After Treatment System in System Shed | Before Treatment System in System Shed | In Treatment System Shed After Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | | Ex. 6 - Personal Privacy | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 132 | 127 | 141 |
| Chloride (mg/l) | -- | 250 | -- | 19.8 | 19.1 | 17.1 |
| DO (mg/l) | -- | -- | -- | 7.93 | 8.75 | 8.46 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 211.1 | 227.1 | 237 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 8.13 | 7.63 | 8.16 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 148 | 156 | 144 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 3.1 | 31 | 1.4 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 210 | 2,700 | 82 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/17/2011 1:20 PM<br>11693<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/17/2011 1:30 PM<br>11695<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/21/2011 1:15 PM<br>11754<br>In Treatment System Shed After Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.1 |
| Barium (mg/l) | 2 | -- | -- | 0.092 | 0.072 | 0.113 |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.04 | < 0.04 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.62 | 5.62 | 5.98 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.098 | 0.079 | 0.112 |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | < 0.005 | < 0.005 | < 0.005 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.091 | 0.072 | 0.101 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.04 | < 0.04 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.6 | 5.44 | 5.89 |

**Notes:**
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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/17/2011 1:20 PM<br>11693<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum | 11/17/2011 1:30 PM<br>11695<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum | 11/21/2011 1:15 PM<br>11754<br>In Treatment System Shed After Treatment<br>Quantum Labs<br>Quantum |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| | | | | Well 1 | Well 1 | Well 1 |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.098 | 0.077 | 0.104 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.005 | < 0.005 | < 0.005 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/17/2011 1:20 PM<br>11693<br>After Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/17/2011 1:30 PM<br>11695<br>Before Treatment System in System Shed<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 11/21/2011 1:15 PM<br>11754<br>In Treatment System Shed After Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | < 0.1 | < 0.11 | < 0.1 |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/21/2011 1:25 PM | 12/1/2011 12:45 PM | 12/1/2011 12:50 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 11752 | 11784 | 11953 |
| Sample Location: | | | | In Treatment System Before Treatment | In Treatment System Shed After Treatment | In Treatment System Before Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 136 | 141 | 138 |
| Chloride (mg/l) | -- | 250 | -- | 17.4 | 24.4 | 24.4 |
| DO (mg/l) | -- | -- | -- | 9.2 | 9.85 | 10.87 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 247.7 | 217.8 | 228.5 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.8 | 7.9 | 7.45 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 140 | 104 | 136 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 33 | 1.6 | 3.8 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 3,000 | 130 | 280 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/21/2011 1:25 PM<br>11752<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/1/2011 12:45 PM<br>11784<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/1/2011 12:50 PM<br>11953<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.1 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.093 | 0.072 | 0.058 |
| Boron (mg/l) | -- | -- | -- | | < 0.05 | < 0.05 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.04 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.97 | 4.7 | 4.6 |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | 0.0082 | 0.0059 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.096 | 0.068 | 0.06 |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | < 0.005 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.01 | < 0.01 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.092 | 0.071 | 0.054 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.05 | < 0.05 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.04 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 6 | 5.1 | 4.8 |

**Notes:**

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/21/2011 1:25 PM | 12/1/2011 12:45 PM | 12/1/2011 12:50 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 11752 | 11784 | 11953 |
| Sample Location: | | | | In Treatment System Before Treatment | In Treatment System Shed After Treatment | In Treatment System Before Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | 0.0075 | 0.005 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.096 | 0.078 | 0.066 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.005 | < 0.001 | < 0.001 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | < 2 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 11/21/2011 1:25 PM<br>11752<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/1/2011 12:45 PM<br>11784<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/1/2011 12:50 PM<br>11953<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.11 |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/8/2011 1:20 PM<br>12198<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/8/2011 1:25 PM<br>12196<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/15/2011 1:35 PM<br>12313<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 134 | 133 | 139 |
| Chloride (mg/l) | -- | 250 | -- | 36.6 | 33.9 | 36.6 |
| DO (mg/l) | -- | -- | -- | 10.2 | 8.59 | 11.4 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 145.8 | 160 | 237.5 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.97 | 7.34 | 8.16 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 148 | 156 | 188 |
| TSS (mg/l) | -- | -- | -- | 2.4 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 4 | 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 1.2 | 25 | 0.7 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 100 | 2,300 | 65 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/8/2011 1:20 PM<br>12198<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/8/2011 1:25 PM<br>12196<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/15/2011 1:35 PM<br>12313<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.083 | 0.077 | 0.082 |
| Boron (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.04 | < 0.04 | < 0.04 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 4.8 | 5 | 4.9 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0058 | 0.0086 | 0.0056 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.079 | 0.076 | 0.078 |
| Thallium (mg/l) | -- | -- | -- | < 0.015 | < 0.015 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | < 0.1 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.079 | 0.078 | 0.081 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.04 | < 0.04 | < 0.04 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 4.3 | 5.2 | 4.7 |

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Ex. 6 - Personal Privacy

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| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/8/2011 1:20 PM<br>12198<br>In Treatment System Shed After Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/8/2011 1:25 PM<br>12196<br>In Treatment System Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/15/2011 1:35 PM<br>12313<br>In Treatment System Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0057 | 0.0065 | 0.0067 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.077 | 0.077 | 0.079 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.015 | < 0.015 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.01 | < 0.01 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.2 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:
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* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/8/2011 1:20 PM<br>12198<br>In Treatment System Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/8/2011 1:25 PM<br>12196<br>In Treatment System Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/15/2011 1:35 PM<br>12313<br>In Treatment System Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | < 0.1 | < 0.11 | < 0.1 |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

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* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
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# Cabot Oil & Gas Corporation

## Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/15/2011 1:40 PM | 12/20/2011 1:20 PM | 12/20/2011 1:30 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 12311 | 12335 | 12333 |
| Sample Location: | | | | In Treatment System Before Treatment | In Treatment System Shed After Treatment | In Treatment System Before Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 134 | 128 | 126 |
| Chloride (mg/l) | -- | 250 | -- | 29.8 | 25.2 | 26.2 |
| DO (mg/l) | -- | -- | -- | 8.45 | 7.78 | 9.06 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 252 | 174.4 | 186.4 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | < 0.08 |
| pH (pH) | -- | 6.5-8.5 | -- | 7.46 | 7.63 | 7.44 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| TDS (mg/l) | -- | 500 | -- | 180 | 140 | 140 |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | < 2 |
| Turbidity (ntu) | -- | -- | -- | 1 | < 1 | < 1 |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | < 1 |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | < 1 |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 15 | 4.2 | 14 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.11 |
| Methane (µg/l) | -- | -- | 28000 | 1,300 | 460 | 1,200 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.24 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | 0.16 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/15/2011 1:40 PM | 12/20/2011 1:20 PM | 12/20/2011 1:30 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 12311 | 12335 | 12333 |
| Sample Location: | | | | In Treatment System Before Treatment | In Treatment System Shed After Treatment | In Treatment System Before Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | Ex. 6 - Personal Privacy | Ex. 6 - Personal Privacy |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.1 | < 0.05 | < 0.05 |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium (mg/l) | 2 | -- | -- | 0.073 | 0.08 | 0.069 |
| Boron (mg/l) | -- | -- | -- | < 0.05 | < 0.1 | < 0.1 |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.04 | < 0.05 | < 0.05 |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5 | 5.14 | 5.1 |
| Manganese (mg/l) | -- | 0.05 | -- | 0.0068 | < 0.025 | < 0.025 |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.073 | 0.083 | 0.073 |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium (mg/l) | -- | -- | -- | < 0.01 | < 0.005 | < 0.005 |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.05 | < 0.05 |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.071 | 0.079 | 0.075 |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.1 | < 0.1 |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.04 | < 0.05 | < 0.05 |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5 | 5.07 | 5.03 |

**Notes:**

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[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

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* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/15/2011 1:40 PM<br>12311<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/20/2011 1:20 PM<br>12335<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/20/2011 1:30 PM<br>12333<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | 0.0059 | < 0.025 | < 0.025 |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.073 | 0.08 | 0.076 |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | < 0.001 |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.01 | < 0.005 | < 0.005 |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.2 | < 2.1 | < 2.1 |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/15/2011 1:40 PM<br>12311<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/20/2011 1:20 PM<br>12335<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 | 12/20/2011 1:30 PM<br>12333<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Ex. 6 - Personal Privacy<br>Well 1 |
|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | < 0.11 | < 0.11 | < 0.11 |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/27/2011 1:20 PM | 12/27/2011 1:30 PM | 1/5/2012 1:35 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 12397 | 12395 | 11472 |
| Sample Location: | | | | In Treatment System Shed After Treatment | In Treatment System Before Treatment | In Treatment System Before Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Water Source Location** | | | | | | |
| Latitude | -- | -- | -- | 41.74487 | 41.74487 | 41.74487 |
| Longitude | -- | -- | -- | -75.88392 | -75.88392 | -75.88392 |
| **Water Quality Indicator Parameters** | | | | | | |
| Alkalinity (mg/l) | -- | -- | -- | | | |
| LEL - Wellhead (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| CGI (%) | -- | -- | -- | < 1 | < 1 | < 1 |
| Conductivity (µS/cm) | -- | -- | -- | 195 | 138 | 128 |
| Chloride (mg/l) | -- | 250 | -- | 38.7 | 36.9 | |
| DO (mg/l) | -- | -- | -- | 10.53 | 10.16 | 8.62 |
| Hardness (mg/l) | -- | -- | -- | | | |
| ORP (mV) | -- | -- | -- | 232.1 | 224.8 | 165.9 |
| MBAS (mg/l) | -- | -- | -- | < 0.08 | < 0.08 | |
| pH (pH) | -- | 6.5-8.5 | -- | 8.32 | 8.3 | 7.96 |
| Sulfate (mg/l) | 250 | -- | -- | | | |
| Sulfide (mg/l) | -- | -- | -- | < 1 | 1 | |
| TDS (mg/l) | -- | 500 | -- | 184 | 182 | |
| TSS (mg/l) | -- | -- | -- | < 2 | < 2 | |
| Turbidity (ntu) | -- | -- | -- | < 1 | < 1 | |
| Bromide (mg/l) | -- | -- | -- | < 1 | < 1 | |
| **Biological** | | | | | | |
| E Coli (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| Fecal Coliform (cfu/100 ml) | 0 | -- | -- | | | |
| Total Coliform (cfu/100 ml) | 0 | -- | -- | < 1 | < 1 | |
| **Dissolved Gasses** | | | | | | |
| Ethane (µg/l) | -- | -- | -- | 4.9 | 32 | 41 |
| Ethene (µg/l) | -- | -- | -- | | | |
| iso-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Methane (µg/l) | -- | -- | 28000 | 340 | 2,500 | 3,200 |
| n-Butane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| Propane (µg/l) | -- | -- | -- | < 0.05 | < 0.05 | < 0.05 |
| **Petroleum** | | | | | | |
| Benzene (mg/l) | 0.005 | -- | -- | | | |
| Ethylbenzene (mg/l) | 0.7 | -- | -- | | | |
| m, p-Xylenes (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

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**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/27/2011 1:20 PM<br>12397<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/27/2011 1:30 PM<br>12395<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 1/5/2012 1:35 PM<br>11472<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | | Ex. 6 - Personal Privacy | |
| **Petroleum** | | | | | | |
| MTBE (µg/l) | -- | -- | -- | | | |
| o-Xylene (µg/l) | -- | -- | -- | | | |
| Oil & Grease (mg/l) | -- | -- | -- | | | |
| Toluene (mg/l) | 1 | -- | -- | | | |
| TPH (µg/l) | -- | -- | -- | | | |
| Xylenes Total (mg/l) | 10 | -- | -- | | | |
| **Total Metals** | | | | | | |
| Aluminum (mg/l) | -- | 0.05-0.2 | -- | < 0.05 | < 0.05 | |
| Arsenic (mg/l) | 0.01 | -- | -- | < 0.001 | < 0.001 | |
| Barium (mg/l) | 2 | -- | -- | 0.084 | 0.091 | |
| Boron (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Calcium (mg/l) | -- | -- | -- | | | |
| Cadmium (mg/l) | 0.005 | -- | -- | | | |
| Chromium (mg/l) | 0.1 | -- | -- | | | |
| Iron (mg/l) | -- | 0.3 | -- | < 0.05 | < 0.05 | |
| Lead (mg/l) | 0.015 | -- | -- | | | |
| Magnesium (mg/l) | -- | -- | -- | 5.27 | 5.62 | |
| Manganese (mg/l) | -- | 0.05 | -- | < 0.025 | < 0.025 | |
| Mercury (mg/l) | 0.002 | -- | -- | | | |
| Potassium (mg/l) | -- | -- | -- | | | |
| Selenium (mg/l) | 0.05 | -- | -- | | | |
| Silver (mg/l) | -- | 0.1 | -- | | | |
| Sodium (mg/l) | -- | -- | -- | | | |
| Strontium (mg/l) | -- | -- | -- | 0.086 | 0.092 | |
| Thallium (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium (mg/l) | -- | -- | -- | < 0.005 | < 0.005 | |
| **Dissolved Metals** | | | | | | |
| Aluminum, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Arsenic, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Barium, Dissolved (mg/l) | -- | -- | -- | 0.084 | 0.088 | |
| Boron, Dissolved (mg/l) | -- | -- | -- | < 0.1 | < 0.1 | |
| Iron, Dissolved (mg/l) | -- | -- | -- | < 0.05 | < 0.05 | |
| Magnesium, Dissolved (mg/l) | -- | -- | -- | 5.24 | 5.6 | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

[3] Recommended action level from the Office of Surface Mining Reclamation and Enforcement - Appalachian Regional Coordinating Center, Pittsburgh, PA (September 2001).

LEL (%) is a reading of the lower explosive limit from the point at which the sample was collected.

Procedures for collecting water samples are detailed in the SOP (available on request) and summarized in the following:

* Water is run from sampling point for approximately 10 to 15 minutes to purge any water in the pipes and storage tank.
* If there is an aerator in the faucet it is removed prior to sampling.
* The sampler dons gloves and fills the appropriate containers provided by the laboratory for the respective analyses.
* The sampling point is swabbed inside and out with disinfectant and then purged prior to collection of samples for bacterial analysis.
* Field measurements are made with instruments that have been properly calibrated and the LEL of the sample headspace is measured for both hot and cold water sources, if available.

# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/27/2011 1:20 PM | 12/27/2011 1:30 PM | 1/5/2012 1:35 PM |
|---|---|---|---|---|---|---|
| Analysis ID: | | | | 12397 | 12395 | 11472 |
| Sample Location: | | | | In Treatment System Shed After Treatment | In Treatment System Before Treatment | In Treatment System Before Treatment |
| Laboratory: | | | | Quantum Labs | Quantum Labs | Quantum Labs |
| Collection Company: | | | | Quantum | Quantum | Quantum |
| Interviewer: | | | | Ex. 6 - Personal Privacy | | |
| Water Source: | | | | Well 1 | Well 1 | Well 1 |
| Install Date: | | | | | | |
| **Dissolved Metals** | | | | | | |
| Manganese, Dissolved (mg/l) | -- | -- | -- | < 0.025 | < 0.025 | |
| Strontium, Dissolved (mg/l) | -- | -- | -- | 0.086 | 0.09 | |
| Thallium, Dissolved (mg/l) | -- | -- | -- | < 0.001 | < 0.001 | |
| Vanadium, Dissolved (mg/l) | -- | -- | -- | < 0.005 | < 0.005 | |
| **Volatile Organic Compounds** | | | | | | |
| 1,2,4-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| 1,3,5-Trimethylbenzene (mg/l) | -- | -- | -- | | | |
| Isopropyl benzene (mg/l) | -- | -- | -- | | | |
| n-Butylbenzene (mg/l) | -- | -- | -- | | | |
| Naphthalene (mg/l) | -- | -- | -- | | | |
| p-Isopropyltoluene (mg/l) | -- | -- | -- | | | |
| Sec-Butylbenzene (mg/l) | -- | -- | -- | | | |
| n-Propylbenzene (mg/l) | -- | -- | -- | | | |
| **SVOCs** | | | | | | |
| 3,4-Methylphenol (µg/l) | -- | -- | -- | < 2.1 | < 2.2 | |
| **Dissolved Metals** | | | | | | |
| Antimony (mg/l) | -- | -- | -- | | | |
| Beryllium (mg/l) | -- | -- | -- | | | |
| Cadmium, Dissolved (mg/l) | -- | -- | -- | | | |
| Calcium, Dissolved (mg/l) | -- | -- | -- | | | |
| Mercury, Dissolved (mg/l) | -- | -- | -- | | | |
| Nickel (mg/l) | -- | -- | -- | | | |
| Nitrate (mg/l) | -- | -- | -- | | | |
| Nitrogen Dioxide (mg/l) | -- | -- | -- | | | |
| Potassium, Dissolved (mg/l) | -- | -- | -- | | | |
| Selenium, Dissolved (mg/l) | -- | -- | -- | | | |
| Sodium, Dissolved (mg/l) | -- | -- | -- | | | |
| **Total Metals** | | | | | | |
| Chromium (g/s) | -- | -- | -- | | | |
| Lead, Dissolved (mg/l) | -- | -- | -- | | | |

**Notes:**
[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).
[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.
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# Cabot Oil & Gas Corporation

Ex. 6 - Personal Privacy

**State: PA, County: Susquehanna, Township: Dimock**
**Nearby Wellpads: PASUS-EPA-48743**

| Date of Survey:<br>Analysis ID:<br>Sample Location:<br><br>Laboratory:<br>Collection Company:<br>Interviewer:<br>Water Source:<br>Install Date: | Primary Max. Contaminant Levels[1] | Secondary Max. Contaminant Levels[2] | Recommended Action Levels[3] | 12/27/2011 1:20 PM<br>12397<br>In Treatment System<br>Shed After Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 12/27/2011 1:30 PM<br>12395<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 | 1/5/2012 1:35 PM<br>11472<br>In Treatment System<br>Before Treatment<br>Quantum Labs<br>Quantum<br>Well 1 |
|---|---|---|---|---|---|---|
| | | | | Ex. 6 - Personal Privacy | | |
| **Total Metals** | | | | | | |
| Silver, Dissolved (mg/l) | -- | -- | -- | | | |
| **Water Quality Indicator Parameters** | | | | | | |
| Chromium, Dissolved (mg/l) | -- | -- | -- | | | |
| Copper (mg/l) | -- | -- | -- | | | |
| TPH 8015B (mg/l) | -- | -- | -- | < 0.11 | < 0.1 | |
| Zinc (mg/l) | -- | -- | -- | | | |

**Notes:**

[1] Maximum Contaminant Levels or Treatment Technique per E.P.A.'s National Primary Drinking Water Regulations. Safe Drinking Water Act (42 USC Chapter 6A Section 300f).

[2] E.P.A. National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

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