HAUCK ANALYTICAL SERVICES, INC.
613 MEADOWLARK LANE
RIVERTON, WYOMING 82501
307-856-8183

DATE: December 16, 2009

CLIENT: Phoenix Production
P.O. Box 2653
Cody, WY 82414

LOCATION: Rolff Lake
PERMIT NUMBER: WY0024945

SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
429	12/15/09	9:19/gh	Oil & Grease	5.89	mg/L	12/15/09	16:34/jh	EPA 1664A	
"	"	"	pH	8.42	SU	12/15/09	9:22/gh	EPA 150.1	
"	"	"	Spec. Cond	6900	µmhos	12/15/09	9:22/gh	EPA 120.1	

LOCATION: Sheldon Dome
PERMIT NUMBER: WY0024953]

SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
431	12/15/09	9:38/gh	Oil & Grease	9.82	mg/L	12/15/09	16:33/jh	EPA 1664A-	
"	"	"	pH	7.86	SU	12/15/09	9:41/gh	EPA 150.1	
"	"	"	Spec. Cond.	5470	µmhos	12/15/09	9:41/gh	EPA 120.1	

Eugene M. Hauck

Eugene M. Hauck, Chemist

HAUCK ANALYTICAL SERVICES, INC.
613 MEADOWLARK LANE
RIVERTON, WYOMING 82501
307-856-8183

DATE: November 21, 2009

CLIENT: Phoenix Production
P.O. Box 2653
Cody, WY 82414

LOCATION: Rolff Lake
PERMIT NUMBER: WY0024945

SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
410	11/19/09	11:25/gh	Oil & Grease	3.98	mg/L	11/20/09	13:20/jh	EPA 1664A	
"	"	"	pH	7.8	SU	11/19/09	11:30/gh	EPA 150.1	
"	"	"	Spec. Cond	6440	µmhos	11/19/09	11/32/gh	EPA 120.1	

LOCATION: Sheldon Dome
PERMIT NUMBER: WY0024953]

SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
411	11/19/09	11:41/gh	Oil & Grease	3.82	mg/L	11/20/09	13:20/jh	EPA 1664A-	
"	"	"	pH	7.2	SU	11/19/09	11:45/gh	EPA 150.1	
"	"	"	Spec. Cond	5180	µmhos	11/19/09	11:50/gh	EPA 120.1	

Eugene M. Hauck

Eugene M. Hauck, Chemist

HAUCK ANALYTICAL SERVICES, INC.
613 MEADOWLARK LANE
RIVERTON, WYOMING 82501
307-856-8183

DATE: October 31, 2009

CLIENT: Phoenix Production
P.O. Box 2653
Cody, WY 82414

LOCATION: Rolff Lake
PERMIT NUMBER: WY0024945

SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
115	10/19/09	14:45/eh	Oil & Grease	2.55	mg/L	10/21/09	14:27/jh	EPA 1664A	
"	"	"	Spec. Cond	6440	µmhos	10/19/09	14:52/eh	EPA 120.1	
"	"	"	Tot. Dis. Solids	4700	mg/L	10/21/09	14:25/eh	EPA 160.1	
"	"	"	Chloride	1170	mg/L	10/21/09	17:43/eh	SM 408A	
"	"	"	Sulfate	935	mg/L	10/22/09	09:43/eh	EPA 375.4	
320	10/22/09		pH	8.1	SU	10/22/09	10:15/m	EPA 150.1	

LOCATION: Sheldon Dome
PERMIT NUMBER: WY0024953]

SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
117	10/19/09	15:13/eh	Oil & Grease	8.44	mg/L	10/21/09	15:00/jh	EPA 1664A-	
"	"	"	pH	7.5	SU	10/19/09	15:20/eh	EPA 150.1	
"	"	"	Spec. Cond	4740	µmhos	10/19/09	15:25/eh	EPA 120.1	
"	"	"	Tot. Dis. Solids	3330	mg/L	10/21/09	15:49/eh	EPA 160.1	
"	"	"	Chloride	517	mg/L	10/21/09	14:51/eh	SM 408A	
"	"	"	Sulfate	1670	mg/L	10/21/09	17:50/eh	EPA 375.4	

Eugene M. Hauck, Chemist

HAUCK ANALYTICAL SERVICES, INC.
613 MEADOWLARK LANE
RIVERTON, WYOMING 82501
307-856-8183

DATE: September 30, 2009

CLIENT: Phoenix Production
P.O. Box 2653
Cody, WY 82414

LOCATION:	Rolff Lake								
PERMIT NUMBER:	WY0024945								
SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
233	09/05/09	13:05/h	Oil & Grease	<1	mg/L	09/10/09	16:30/h	EPA 1664A	
276	09/29/09	11:03/eh	pH	8.2	SU	09/29/09	11:03/eh	EPA 150.1	
233	09/05/09	13:05/h	Spec. Cond	6380	µmhos	09/05/09	13:15/h	EPA 120.1	

LOCATION:	Sheldon Dome								
PERMIT NUMBER:	WY0024963								
SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
234	09/05/09	13:35/h	Oil & Grease	3.50	mg/L	09/10/09	16:40/h	EPA 1664A-	Sulfer Corrected
"	"	"	pH	7.2	SU	09/05/09	13:40/h	EPA 150.1	
"	"	"	Spec. Cond	1167	µmhos	09/06/09	13:40/h	EPA 120.1	

Eugene M. Hauck, Chemist

PRECISION ANALYSIS

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www.precision-labs.com
info@precision-labs.com

LABORATORY ANALYTICAL REPORT

Client: Phoenix Production
Project: Permit Number 0024953

Lab Order: 9082102
Report Date: 08/26/09

Lab ID: 09082102-01
Client Sample ID: Sheldon Dome
Matrix: Nonpotable Water
Notes:

	Date	Time
Collection:	08/21/09	13:05
Received:	08/21/09	15:44

Analyses	Result	Units	RL	Qualifier	Method	Analysis Date	Analysis Time	Analyst Initials
OIL AND GREASE COMPARISON STUDY								
Oil and Grease - No Sulfur Correction	5.7	mg/L	5		EPA 1664	8/24/2009	13:33	lw
Oil and Grease - Sulfur Correction	3.4	mg/L	5	J	EPA 1664-Cu	8/24/2009	13:33	lw
SULFUR CONTENT								
Sulfur Content	2.3	mg/L	0		EPA 1664/Cu CALC	8/24/2009	13:33	lw

Definitions:
ND-Not Detected at the reporting limit
RL-Analyte Reporting Limit
H-Holding times for preparation or analysis exceeded
S-Spike Recovery outside accepted recovery limits
M-Matrix Effect
J-Analyte detected belowquantitation limits
BDL-Below detection limit

PRECISION ANALYSIS

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Laboratory Analytical Report

SAMPLE COLLECTION LABORATORY ANALYSIS GAS MEASUREMENT EMISSIONS TESTING

Customer Name: Phoenix Production
Project ID: Permit No. 0024953

Order ID: 09082102
Report Date: 8/25/2009

Lab Sample ID: 09082102-01
Customer Sample ID: Sheldon Dome
Matrix: Nonpotable Water
Notes:

	Date	Time
Collection:	8/21/2009	1:05 PM
Received:	8/21/2009	3:44 PM

Analyte	Result	Units	RL	Qual	Method	Analysis Date/Time	Analyst
Conductivity	4700	µS/cm	10		SM 2510 B	8/21/2009 1:15:00 PM	GA
Total Petroleum Hydrocarbons (HEM)	< 5	mg/L	5		EPA 1664 A	8/24/2009 1:33:00 PM	LW
pH	7.35	s.u.	0.01		EPA 150.1	8/21/2009 1:05:00 PM	GA

Definitions:
ND-Not Detected at the reporting limit
RL-Analyte Reporting Limit
H-Holding times for preparation or analysis exceeded
S-Spike Recovery outside accepted recovery limits
J-Analyte detected below quantitation limits
M-Matrix Effect
D-Diluted out of recovery limits
L-Analyzed by a contract laboratory

PRECISION ANALYSIS

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Laboratory Analytical Report

SAMPLE COLLECTION **LABORATORY ANALYSIS** **GAS MEASUREMENT** **EMISSIONS TESTING**

Customer Name:	Phoenix Production	Order ID:	09080508
Project ID:	Permit No. 0024953	Report Date:	8/7/2009

			Date	Time
Lab Sample ID:	09080508-01			
Customer Sample ID:	Sheldon Dome	Collection:	8/5/2009	10:20 AM
Matrix:	Nonpotable Water	Received:	8/5/2009	12:25 PM

Notes:

Analytes	Results	Units	RL	Qual	Method	Analysis Date/Time	Analyst
pH	7.19	s.u.	0.01		EPA 150.1	8/5/2009 10:23:00 AM	JF
Total Dissolved Solids (TDS)	4100	mg/L	10		SM 2540 C	8/6/2009 1:18:00 PM	LW

Definitions:
ND-Not Detected at the reporting limit
RL-Analyte Reporting Limit
H-Holding times for preparation or analysis exceeded
S-Spike Recovery outside accepted recovery limit
J-Analyte detected below quantitation limits
M-Matrix Effect
D-Diluted out of recovery limits
L-Analyzed by a contract laboratory

PRECISION ANALYSIS

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Laboratory Analytical Report

SAMPLE COLLECTION **LABORATORY ANALYSIS** **GAS MEASUREMENT** **EMISSIONS TESTING**

Customer Name: Phoenix Production
Project ID: Permit No. 0024953

Order ID: 09071503
Report Date: 8/3/2009

Lab Sample ID: 09071503-02
Customer Sample ID: Sheldon Dome
Matrix: Nonpotable Water

	Date	Time
Collection:	7/14/2009	2:50 PM
Received:	7/14/2009	5:50 PM

Notes:

Analyte	Result	Units	RL	Qual	Method	Analysis Date/Time	Analyst
Chloride	550	mg/L	250		EPA 300.0	7/15/2009 3:39:59 PM	LW
Conductivity	5190	µS/cm	10		SM 2510 B	7/15/2009 9:59:00 AM	KO
Total Petroleum Hydrocarbons (HEM)	6.7	mg/L	5		EPA 1664 A	7/16/2009 10:00:00 AM	HF
pH	8.07	s.u.	0.01		EPA 150.1	7/15/2009 9:54:00 AM	KO
Radium-226	36.7 +/- 1.7	pCi/L	0.21		SM 7500-Ra	7/27/2009 4:06:00 PM	SA
Sulfate	1600	mg/L	250		EPA 300.0	7/15/2009 3:39:59 PM	LW
Total Dissolved Solids (TDS)	4100	mg/L	10		SM 2540 C	7/15/2009 9:55:00 AM	KO

Definitions:
ND-Not Detected at the reporting limit
RL-Analyte Reporting Limit
H-Holding times for preparation or analysis exceeded
S-Spike Recovery outside accepted recovery limit
J-Analyte detected below quantitation limits
M-Matrix Effect
D-Diluted out of recovery limits
L-Analyzed by a contract laboratory

HAUCK ANALYTICAL SERVICES, INC.
613 MEADOWLARK LANE
RIVERTON, WYOMING 82501
307-856-8183

DATE: July 23, 2009

CLIENT: Phoenix Production
P.O. Box 2653
Cody, WY 82414

LOCATION: Rolff Lake
PERMIT NUMBER: WY0024945

SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
194	07/14/09	14:25/jh	Oil & Grease	9.05	mg/L	07/15/09	21:00/jh	EPA 1664A	

LOCATION: Sheldon Dome
PERMIT NUMBER: WY0024953]

SAMPLE NO.	SAMPLED		ANALYSIS	AMOUNT	UNITS	ANALYZED		METHOD	COMMENTS
	DATE	TIME/BY				DATE	TIME/BY		
195	07/14/09	14:50/jh	Oil & Grease	4.81	mg/L	07/15/09	21:15/jh	EPA 1664A-	Sulfur Corrected

Eugene M. Hauck

Eugene M. Hauck, Chemist

HAUCK ANALYTICAL SERVICES, INC.
613 MEADOWLARK LANE
RIVERTON, WY 82501
307-856-8183

DATE: July 16, 2009

CLIENT: Phoenix Production
P.O. Box 2653
Cody, WY 82414

SUBJECT: Oil and Grease results for Rolff Lake and Sheldon Dome showing the total extractable (oil and grease plus sulfur) and just oil and grease after sulfur correction. The net oil and grease should compare favorably with results determined in the field with a Hach instrument or other colorimeter used by chemical companies. If you have any questions give me a call.

Sample No.	Location	Date Sampled	Total Extractable (Oil & Grease + Sulfur)	Oil and Grease	Sulfur
194	Rolff Lake	07/14/09 14:25	9.05 mg/L	5.32 mg/L	3.73 mg/L
195	Sheldon Dome	07/14/09 14:50	10.18 mg/L	4.81 mg/L	5.37 mg/L

Eugene M. Hauck