GEOLIS® Well Construction Form

COMPANY: Weston
PROJECT: W. Vermont IN
PROPERTY: EPA Region 5 START
SITE/AREA: 3938 W. Michigan Ave.

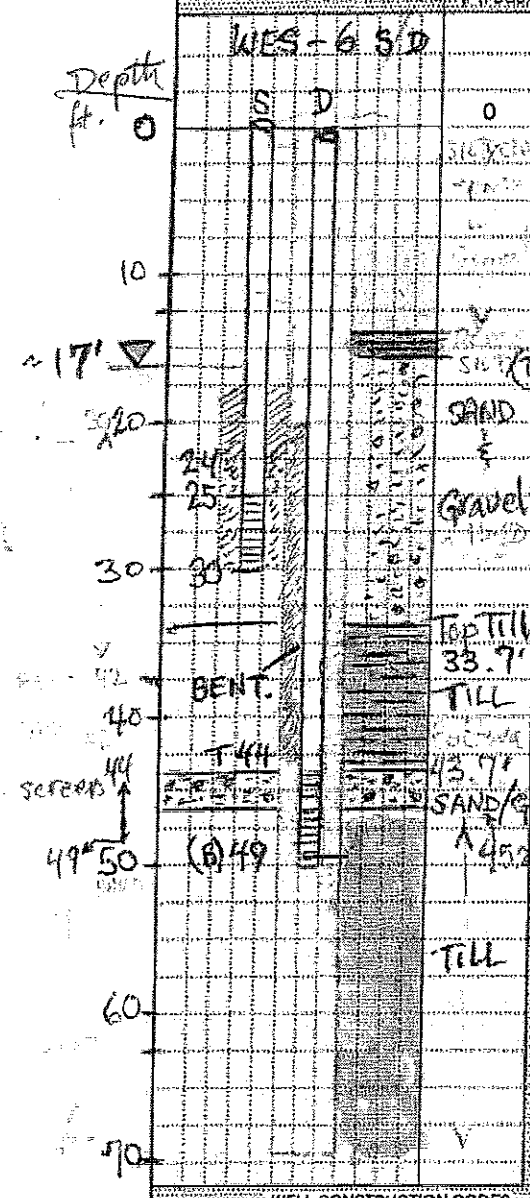
LOCATION ID: WES-6D
DATE: 2/5/2014
LOGGER: [illegible] LANDRY
SIGNATURE: [illegible]

START DATE: 2/3/2014 - 2/5/2014
COMPLETION DATE:
WELL STATUS: PMP - ABN - COL - NOR
STATUS DATE:

SURVEYED ELEVATIONS (MSL)
GROUND LEVEL: FT/M
MEASURING POINT: (TOP OF CASING) FT/M

DEPTH TO WATER		DATE / TIME
WES-6D 16.69	FT/M(TOC)	2/7/2014 08:15
WES-6S 17.35	FT/M(TOC)	2/7/2014 08:12
	FT/M(TOC)	

WELL DIAGRAM - NOT TO SCALE



WELL TYPE: (SCREEN) MULT. SCREEN - OPEN HOLE - NESTED - PROBE - LYSIMETER
CASING: SINGLE - DOUBLE - TRIPLE COMPLETION: (FLUSH) PROT - VAULT - CAP - NA
NUMBER OF SCREENS OR NESTED WELLS: (1) 2 - 3 - 4 - 5 - OTH:
WELL USE: DOM - PUB - IRR - FIR - (MON) HYD - EXT - DEW - RCH - VEW - INJ - OTH:

WELL DESIGN CONSTRUCTION

CASING #1 (INNERMOST): DIAMETER: 2 (IN/CM) INTERVAL: 0 TO 44 (FT/M BGS)
TYPE: (PVC) STN - LCS - GAL - SCHEDULE: 5 - 10 - 20 - (40) - 80 -
CASING JOINTS: FLT - BUT - EUT - SOL - WLD - (SCW) - CAM - OTH:

CASING #2: DIAMETER: IN/CM INTERVAL: TO FT/M BGS
TYPE: PVC - STN - LCS - GAL - SCHEDULE: 5 - 10 - 20 - 40 - 80 -

CASING #3 (OUTERMOST): DIAMETER: IN/CM INTERVAL: TO FT/M BGS
TYPE: PVC - STN - LCS - GAL - SCHEDULE: 5 - 10 - 20 - 40 - 80 -

STICK UP: INNER CASING: FT/M OUTER CASING: FT/M

GROUT: TYPE: CMT - (C/B) - BEN - HSB - OTH:
INTERVAL: TO FT/M BGS
PLACEMENT: TRM - PRS - (GRV) CENTRALIZERS: (NON) 1 - 2 - 3 - OTH:

SEAL: TYPE 1: Bentonite Chips INTERVAL: 42 TO 19 (FT/M BGS)
TYPE 2: Cement/Bent INTERVAL: 0 TO 19 (FT/M BGS)

SAND PACK: * TYPE: Medium INTERVAL: 42 TO 50 (FT/M BGS)

SCREEN: DIAMETER: 2 IN/MM INTERVAL: 44 TO 49 (FT/M BGS)
TYPE: (PVC) STAINLESS - TEFLON - CERAMIC - OTH:
SLOTS: CONTINUOUS - (SLOTTED) HORIZ - SLOTTED/VERT - FIELD CUT
SLOT SIZE: 6 (10) - 20 - 30 - 40 SLOT IN/MM

SILT TRAP/SUMP: YES - (NO) INTERVAL: 48.7 TO 49.0 (FT/M BGS)

OPEN HOLE: DIAMETER 1: IN/CM INTERVAL: TO FT/M BGS
DIAMETER 2: IN/CM INTERVAL: TO FT/M BGS

INSIDE WELL T.D.: 49 (FT/M BGS) COLLAPSE/BACKFILL: COL - BFL - BTH - NON
COLLAPSE INTERVAL: 50 TO 51 FT/M BGS SAND
BACKFILL INTERVAL: 51 TO 67.5 FT/M BGS TYPE: Bentonite Chips

STRAT UNIT MONITORED: SAND/Gravel Beneath 13' → TILL Unit.

ESTIMATED WELL YIELD: GPM/LPM DRAWDOWN: FT/M BMP

WELL PUMPS: YES - NO
TYPE 1: DEPTH: FT/M BMP
TYPE 2: DEPTH: FT/M BMP

COMMENTS: Shallow well installed ~10 ft east of deep well. Screens 25-30 ft; Sand pack 24-30 ft; Bentonite 20-24 ft; C/B grout to surface.

WELL CONSTRUCTION CODES

GRS = GROUND SURFACE	TSC = TOP OF SCREEN
BPC = BOTTOM OF PROTECTIVE CASING	TST = TOP OF SILT TRAP
TBS = TOP OF BENTONITE SEAL	WTD = TOTAL DEPTH INSIDE WELL
TBR = TOP OF BEDROCK	BTD = BOREHOLE TOTAL DEPTH
BOC = BOTTOM OF OUTER CASING	TOC = TOP OF CASING (INNER)
TSP = TOP OF SAND PACK	BGS = BELOW GROUND SURFACE

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GEOLIS® Well Construction Form

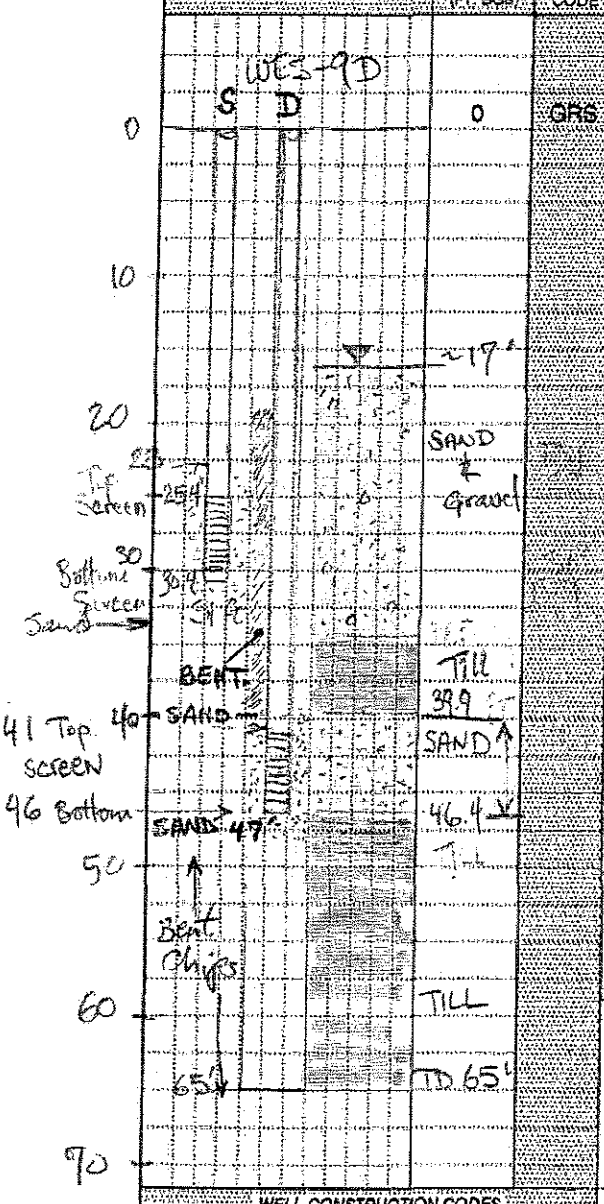
COMPANY: WESTON
PROJECT: W. Vermont, IN
PROPERTY: 3939 W. Michigan St.
SITE/AREA: EPA Investigation/5th START

LOCATION ID: WES-9D
DATE: 2/7/2014
LOGGER: T. LANDRY
SIGNATURE: TOJ

START DATE: 2/6/2014
COMPLETION DATE: 2/8/2014
WELL STATUS: PMP - ABN - COL - NOR
STATUS DATE:

SURVEYED ELEVATIONS (MSL) — DEPTH TO WATER — DATE / TIME
GROUND LEVEL: _____ FT/M _____ FT/M(TOC) _____
MEASURING POINT: _____ FT/M _____ FT/M(TOC) _____
(TOP OF CASING) _____ FT/M(TOC) _____

WELL DIAGRAM - NOT TO SCALE | DEPTH (FT. BGS) | WELL CODE



WELL TYPE: (SCREEN) - MULT. SCREEN - OPEN HOLE - NESTED - PROBE - LYSIMETER
CASING: (SINGLE) - DOUBLE - TRIPLE COMPLETION: (FLUSH) - PROT - VAULT - CAP - NA
NUMBER OF SCREENS OR NESTED WELLS: 1 - 2 - 3 - 4 - 5 - OTH: _____
WELL USE: DOM - PUB - IRR - FIR - (MON) - HYD - EXT - DEW - RCH - VEW - INJ - OTH: _____

WELL DESIGN CONSTRUCTION

CASING #1 (INNERMOST): DIAMETER: 2 IN/CM INTERVAL: 0 TO 41 (FT/M) BGS
TYPE: (PVC) - STN - LCS - GAL - ____ SCHEDULE: 5 - 10 - 20 - (40) - 80 - ____
CASING JOINTS: FLT - BUT - EUT - SOL - WLD - (SCW) - CAM - OTH: _____

CASING #2: DIAMETER: _____ IN/CM INTERVAL: _____ TO _____ FT/M BGS
TYPE: PVC - STN - LCS - GAL - ____ SCHEDULE: 5 - 10 - 20 - 40 - 80 - ____

CASING #3 (OUTERMOST): DIAMETER: _____ IN/CM INTERVAL: _____ TO _____ FT/M BGS
TYPE: PVC - STN - LCS - GAL - ____ SCHEDULE: 5 - 10 - 20 - 40 - 80 - ____

STICK UP: INNER CASING: _____ FT/M OUTER CASING: _____ FT/M

GROUT: TYPE: CMT - C/B - BEN - HSB - OTH: _____
INTERVAL: _____ TO _____ FT/M BGS
PLACEMENT: TRM - PRS - (GRV) CENTRALIZERS: (NON) - 1 - 2 - 3 - OTH: ____

SEAL: * TYPE 1: Bent Chips INTERVAL: 19 TO 40 (FT/M) BGS
TYPE 2: Cement/Bent INTERVAL: 0 TO 19 (FT/M) BGS

SAND PACK: TYPE: med INTERVAL: 40 TO 46.5 (FT/M) BGS

SCREEN: DIAMETER: 2 IN/MM INTERVAL: 41 TO 46 (FT/M) BGS
TYPE: (PVC) - STAINLESS - TEFLON - CERAMIC - OTH: _____
SLOTS: CONTINUOUS - (SLOTTED/HORIZ) - SLOTTED/VERT - FIELD CUT
SLOT SIZE: 6 - (10) - 20 - 30 - 40 SLOT _____ IN/MM

SILT TRAP/SUMP: (YES) - NO INTERVAL: 45.7 TO 46 (FT/M) BGS (3-inch)

OPEN HOLE: DIAMETER 1: _____ IN/CM INTERVAL: _____ TO _____ FT/M BGS
DIAMETER 2: _____ IN/CM INTERVAL: _____ TO _____ FT/M BGS

INSIDE WELL T.D.: 46 (FT/M) BGS COLLAPSE/BACKFILL: COL - BFL - BTH - NON
COLLAPSE INTERVAL: 46 TO 47 FT/M BGS SAND
BACKFILL INTERVAL: 47 TO 65 FT/M BGS TYPE: Bent Chips

STRAT UNIT MONITORED: SAND Beneath 1st Till [ ] unit.
ESTIMATED WELL YIELD: _____ GPM/LPM DRAWDOWN: _____ FT/M BMP
WELL PUMPS: YES - NO
TYPE 1: _____ DEPTH: _____ FT/M BMP
TYPE 2: _____ DEPTH: _____ FT/M BMP

COMMENTS: Shallow well set approx 10 ft east of deep well. Screen: 25.4'-30.4' Sand pack: 31-23 ft - Bentonite 20-5' Cement/Bentonit 5-20 ft.

WELL CONSTRUCTION CODES

GRS = GROUND SURFACE	TBC = TOP OF SCREEN
BPC = BOTTOM OF PROTECTIVE CASING	TST = TOP OF SILT TRAP
TBS = TOP OF BENTONITE SEAL	WTD = TOTAL DEPTH INSIDE WELL
TBR = TOP OF BEDROCK	BTD = BOREHOLE TOTAL DEPTH
BOC = BOTTOM OF OUTER CASING	TOC = TOP OF CASING (INNER)
TSP = TOP OF SAND PACK	BGS = BELOW GROUND SURFACE

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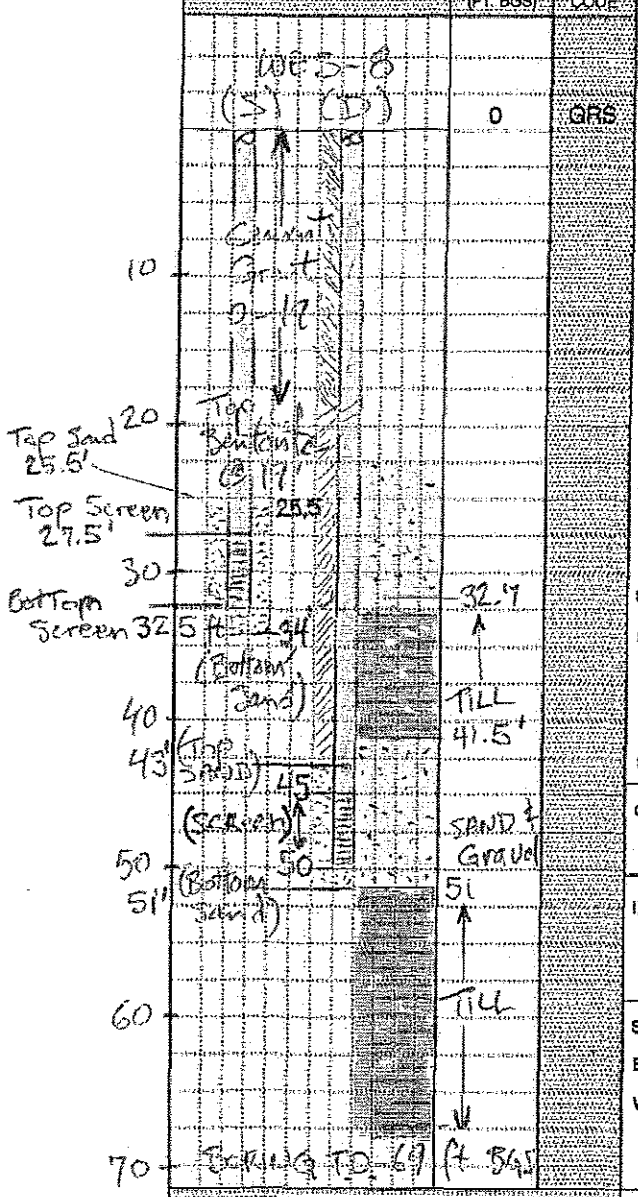
GEOLIS® Well Construction Form

COMPANY: WESTON
PROJECT: EPA REG 5 START
PROPERTY: 3735X W. Michigan Ave
SITE/AREA: W. Vermont / Indiana
LOCATION ID: WES-8 S/D
DATE: 2/10/2014 — 2/12/14
LOGGER: G-1401050Z
SIGNATURE:

START DATE: 2/10/14
COMPLETION DATE: 2/12/14
WELL STATUS: PMP - ABN - COL - NOR
STATUS DATE: 2/12/2014

SURVEYED ELEVATIONS (MSL)		DEPTH TO WATER	DATE / TIME
GROUND LEVEL:	FT/M	FT/M(TOC)	
MEASURING POINT: (TOP OF CASING)	FT/M	FT/M(TOC)	
		FT/M(TOC)	

WELL DIAGRAM - NOT TO SCALE | DEPTH (FT. BGS) | WELL CODE



WELL TYPE: (SCREEN) - MULT. SCREEN - OPEN HOLE - NESTED - PROBE - LYSIMETER
CASING: (SINGLE) DOUBLE - TRIPLE COMPLETION: FLUSH - PROT - VAULT - CAP - NA
NUMBER OF SCREENS OR NESTED WELLS: (1) 2 - 3 - 4 - 5 - OTH:
WELL USE: DOM - PUB - IRR - FIR - MON - HYD - EXT - DEW - RCH - VEW - INJ - OTH: Well Fairs

WELL DESIGN CONSTRUCTION

CASING #1: (INNERMOST) DIAMETER: 2 IN/CM INTERVAL: TO FT/M BGS
TYPE: PVC - STN - LCS - GAL - SCHEDULE: 5 - 10 - 20 - 40 - 80 -
CASING JOINTS: FLT - BUT - EUT - SOL - WLD - SCW - CAM - OTH:

CASING #2: DIAMETER: IN/CM INTERVAL: TO FT/M BGS
TYPE: PVC - STN - LCS - GAL - SCHEDULE: 5 - 10 - 20 - 40 - 80 -

CASING #3: (OUTERMOST) DIAMETER: IN/CM INTERVAL: TO FT/M BGS
TYPE: PVC - STN - LCS - GAL - SCHEDULE: 5 - 10 - 20 - 40 - 80 -

STICK UP: INNER CASING: FT/M OUTER CASING: FT/M

GROUT: TYPE: CMT - C/B - BEN - HSB - OTH:
INTERVAL: TO FT/M BGS
PLACEMENT: TRM - PRS - GRV CENTRALIZERS: NON - 1 - 2 - 3 - OTH:

SEAL: TYPE 1: Cement INTERVAL: 0 TO 19 FT/M BGS
TYPE 2: Bentonite INTERVAL: 19 TO 43 FT/M BGS

SAND PACK: TYPE: medium INTERVAL: 43 TO 51 FT/M BGS

SCREEN: DIAMETER: 2 IN/MM INTERVAL: 45 TO 50 FT/M BGS
TYPE: (PVC) STAINLESS - TEFLON - CERAMIC - OTH:
SLOTS: CONTINUOUS - (SLOTTED/HORIZ) - SLOTTED/VERT - FIELD CUT
SLOT SIZE: 6 (10) 20 - 30 - 40 SLOT IN/MM

SILT TRAP/SUMP: YES - NO INTERVAL: TO FT/M BGS

OPEN HOLE: DIAMETER 1: IN/CM INTERVAL: TO FT/M BGS
DIAMETER 2: IN/CM INTERVAL: TO FT/M BGS

INSIDE WELL T.D.: FT/M BGS COLLAPSE/BACKFILL: COL - BFL - BTH - NON
COLLAPSE INTERVAL: TO FT/M BGS
BACKFILL INTERVAL: TO FT/M BGS TYPE:

STRAT UNIT MONITORED: SAND BENEATH 1st TILL

ESTIMATED WELL YIELD: GPM/LPM DRAWDOWN: FT/M BMP

WELL PUMPS: YES - NO
TYPE 1: DEPTH: FT/M BMP
TYPE 2: DEPTH: FT/M BMP

COMMENTS: Shallow well screened 27.5-32.5 Sand-packed 34-25.5 ft; Bentonite 25.5-17 20 ft; Cement to surface.

WELL CONSTRUCTION CODES

GRS = GROUND SURFACE	TSC = TOP OF SCREEN
BPC = BOTTOM OF PROTECTIVE CASING	TST = TOP OF SILT TRAP
TBS = TOP OF BENTONITE SEAL	WTD = TOTAL DEPTH INSIDE WELL
TBR = TOP OF BEDROCK	BTD = BOREHOLE TOTAL DEPTH
BOC = BOTTOM OF OUTER CASING	TOC = TOP OF CASING (INNER)
TSP = TOP OF SAND PACK	BGS = BELOW GROUND SURFACE

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GEOLIS® Well Construction Form

COMPANY: WESTON
PROJECT: EPA Region 5 START
PROPERTY:
SITE/AREA: W. Vermont, Indiana

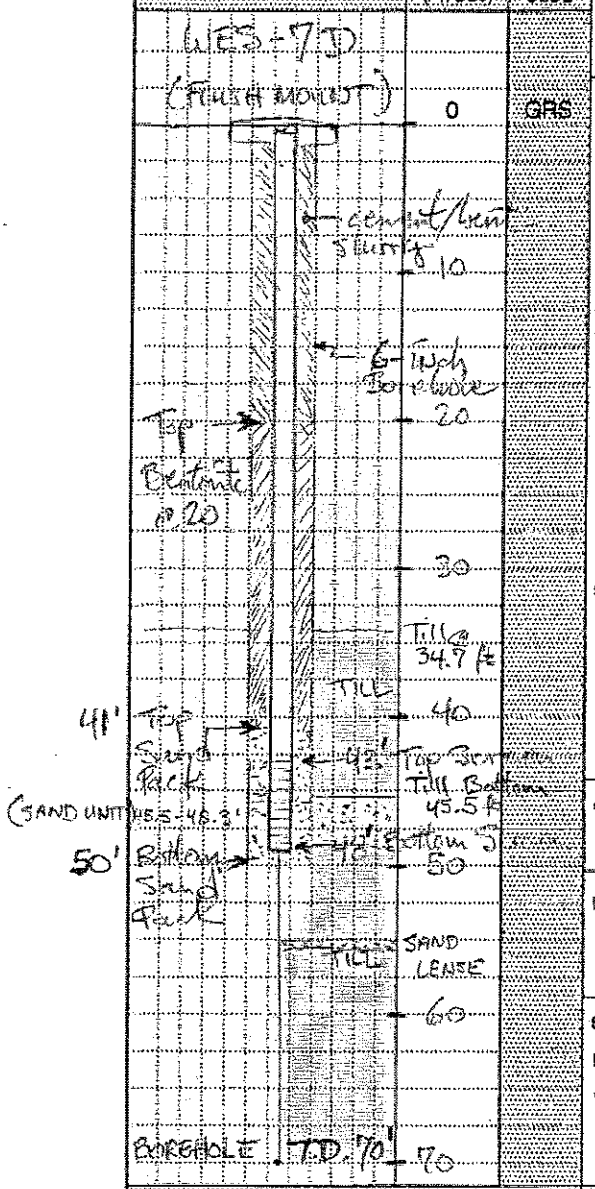
LOCATION ID: WES-7
DATE: 2/14/2014
LOGGER: G. Rousso
SIGNATURE:

START DATE: 2/13/2014
COMPLETION DATE: 2/14/2014
WELL STATUS: PMP - ABN - COL - NOR
STATUS DATE:

SURVEYED ELEVATIONS (MSL): GROUND LEVEL: ____ FT/M; MEASURING POINT: ____ FT/M (TOP OF CASING)

DEPTH TO WATER / DATE / TIME: ____ FT/M(TOC) ____; ____ FT/M(TOC) ____; ____ FT/M(TOC) ____

WELL DIAGRAM - NOT TO SCALE



WELL DIAGRAM - NOT TO SCALE	DEPTH (FT. BGS)	WELL CODE

WELL TYPE: SCREEN - MULT. SCREEN - OPEN HOLE - NESTED - PROBE - LYSIMETER
CASING: SINGLE - DOUBLE - TRIPLE COMPLETION: FLUSH - PROT - VAULT - CAP - NA
NUMBER OF SCREENS OR NESTED WELLS: 1 - 2 - 3 - 4 - 5 - OTH: ____
WELL USE: DOM - PUB - IRR - FIR - MON - HYD - EXT - DEW - RCH - VEW - INJ - OTH: ____

WELL DESIGN CONSTRUCTION

CASING #1 (INNERMOST): DIAMETER: 2 IN/CM INTERVAL: 0 TO 43 FT/M BGS
TYPE: PVC - STN - LCS - GAL - ____ SCHEDULE: 5 - 10 - 20 - 40 - 80 - ____
CASING JOINTS: FLT - BUT - EUT - SOL - WLD - SCW - CAM - OTH: ____

CASING #2: DIAMETER: ____ IN/CM INTERVAL: ____ TO ____ FT/M BGS
TYPE: PVC - STN - LCS - GAL - ____ SCHEDULE: 5 - 10 - 20 - 40 - 80 - ____

CASING #3 (OUTERMOST): DIAMETER: ____ IN/CM INTERVAL: ____ TO ____ FT/M BGS
TYPE: PVC - STN - LCS - GAL - ____ SCHEDULE: 5 - 10 - 20 - 40 - 80 - ____

STICK UP: INNER CASING: ____ FT/M OUTER CASING: ____ FT/M

GROUT: TYPE: CMT - C/B - BEN - HSB - OTH: ____
INTERVAL: ____ TO ____ FT/M BGS
PLACEMENT: TRM - PRS - GRV CENTRALIZERS: NON - 1 - 2 - 3 - OTH: ____

SEAL: TYPE 1: Bentonite INTERVAL: 41 TO 20 FT/M BGS
TYPE 2: Cement/Bent INTERVAL: 20 TO 0 FT/M BGS

SAND PACK: TYPE: medium INTERVAL: 41 TO 50 FT/M BGS

SCREEN: DIAMETER: 2 IN/MM INTERVAL: 43 TO 48 FT/M BGS
TYPE: PVC - STAINLESS - TEFLON - CERAMIC - OTH: ____
SLOTS: CONTINUOUS - SLOTTED/HORIZ - SLOTTED/VERT - FIELD CUT
SLOT SIZE: 6 - 10 - 20 - 30 - 40 SLOT ____ IN/MM

SILT TRAP/SUMP: YES - NO INTERVAL: ____ TO ____ FT/M BGS

OPEN HOLE: DIAMETER 1: ____ IN/CM INTERVAL: ____ TO ____ FT/M BGS
DIAMETER 2: ____ IN/CM INTERVAL: ____ TO ____ FT/M BGS

INSIDE WELL T.D.: 48 FT/M BGS COLLAPSE/BACKFILL: COL - BFL - BTH - NON
COLLAPSE INTERVAL: ____ TO ____ FT/M BGS
BACKFILL INTERVAL: ____ TO ____ FT/M BGS TYPE: ____

STRAT UNIT MONITORED: SAND below 1st Till
ESTIMATED WELL YIELD: ~ 2 GPM/LPM DRAWDOWN: ____ FT/M BMP
WELL PUMPS: YES - NO
TYPE 1: ____ DEPTH: ____ FT/M BMP
TYPE 2: ____ DEPTH: ____ FT/M BMP

COMMENTS: Only set deep well in the sand/gravel unit below the 1st Till unit.

WELL CONSTRUCTION CODES

GRS = GROUND SURFACE	TSC = TOP OF SCREEN
BPC = BOTTOM OF PROTECTIVE CASING	TST = TOP OF SILT TRAP
TBS = TOP OF BENTONITE SEAL	WTD = TOTAL DEPTH INSIDE WELL
TBR = TOP OF BEDROCK	BTD = BOREHOLE TOTAL DEPTH
BOC = BOTTOM OF OUTER CASING	TOC = TOP OF CASING (INNER)
TSP = TOP OF SAND PACK	BGS = BELOW GROUND SURFACE

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