



April 28, 2015

Mr. David Blake Ford
Encana Oil & Gas (USA) Inc.
3601 Stagecoach Road North
Longmont, CO 80504

**RE: Monitoring Well Replacement and Groundwater Sampling Annual Report
 Moser 1
 API # 05-123-08041
 NE¹/₄NE¹/₄ SEC.26 T1N R67W 6PM
 LAT./LONG.: 40.025851/-104.853189
 Weld County, Colorado**

Dear Mr. Ford,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Monitoring Well Replacement and Groundwater Sampling Annual Report to Encana Oil & Gas (USA) Inc. (Encana) for the above referenced site. The data included within this report covers work completed at the site from June 2014 through March 2015.

1.0 SITE BACKGROUND

In April 2012, EAGLE was requested by Encana to perform subsurface assessment activities in response to potential soil and groundwater impacts associated with flex hose upgrades at the site. The flex hose connectors were located on the influent side of the process water holding tanks. During upgrade activities at the site, soil impacts beneath the flex hose connector were observed and reported to Encana. A site location map is presented in Figure 1.

On April 2, 2012, EAGLE supervised the installation of five soil borings/monitoring wells (MW-01 through MW-05) to characterize potential subsurface impacts to the site. Based on laboratory analytical documentation additional assessment activities were required to define the subsurface impacts observed onsite.

On June 6, 2012, EAGLE supervised the installation of six additional soil borings/monitoring wells (MW-06 through MW-11) to further characterize subsurface impacts on the site.

From October 22, 2012 through October 30, 2012, EAGLE supervised Chemically Oxygenated Granular Activated Carbon (COGAC) in-situ remedial injections at the site. The COGAC material was the selected remedial approach for the site due to the COGAC's oxidizing compounds that enhance aerobic conditions in the subsurface, promoting biodegradation of petroleum hydrocarbons.

In the area where soil and groundwater impacts exceeded COGCC regulatory limits, 86 injections points were advanced on five foot centers from 5-14 feet below ground surface (bgs) and 9-14 feet bgs. In addition, in the area where only dissolved phase petroleum hydrocarbon impacts exceeded COGCC regulatory limits, 30 injections points were advanced on ten foot centers from 9-14 feet bgs. Prior to injection activities, each injection point was cleared to five feet bgs utilizing air-knifing technology.

Approximately 100 pounds of COGAC material was combined with 100 gallons of water and injected into each point as a slurry. A total of 9,055 pounds of COGAC material was injected into 116 injection points throughout the site.

On June 21, 2013, EAGLE collected spatial locations of each monitoring well using a Trimble GeoXT 6000 series instrument to generate an accurate site map utilizing the data collected from the Trimble instrument.

On April 1, 2014, EAGLE completed additional soil assessment activities at the site. Soil samples, CS-01 through CS-04, were collected at the same depth interval and general vicinity where soil samples, MW-01 (SB-01), MW-02 (SB-02), MW-03 (SB-03), and MW-09 (SB-09) respectively, collected during initial site assessment activities, exceeded COGCC Table 910-1 regulatory limits. Soil samples, CS-01 through CS-04, were collected via hang auger.

The soil samples collected from soil borings, CS-01 through CS-04, were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) following Environmental Protection Agency (EPA) Method 8021. In addition, the soil samples (CS-01 through CS-04) were also analyzed for total petroleum hydrocarbons – gasoline range organics (TPH-GRO) following EPA Method 8015, and TPH – diesel range organics (DRO) following modified EPA Method 3546.

Based on laboratory analytical results, the soil samples collected from soil borings CS-03 and CS-04 contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit of 0.17 milligrams per kilogram (mg/kg), with concentrations of 0.19 mg/kg and 2.6 mg/kg, respectively. In addition, the soil samples collected from soil borings CS-01 and CS-04 contained concentrations of TPH exceeding the COGCC Table 910-1 regulatory limit of 500 mg/kg, with concentrations of 1,080 mg/kg and 1,100 mg/kg, respectively. The remaining soil sample collected from soil boring CS-02 did not contain BTEX, TPH-GRO, or TPH-DRO concentrations exceeding their respective COGCC Table 910-1 regulatory limits.

Encana completed source removal activities via three excavations at the site in June 2014. Petroleum impacted soil was disposed of offsite at an approved disposal facility. Prior to backfilling activities, a groundwater amendment was applied to the floor of each excavation followed by clean structural fill. A site map illustrating approximate excavation limits is presented in Figure 2.

Quarterly groundwater monitoring has been completed at the site since April 2012.

2.0 SITE DESCRIPTION

The Moser 1 site is located within the northeast quarter of the northeast quarter of Section 26, Township 1 North, Range 67 West of the 6th Prime Meridian. The well is located at latitude: 40.025851 and longitude -104.853189 and the Moser 1 tank battery is located at latitude: 40.025718 and longitude -104.852021 in Weld County, Colorado.

2.1 Site Hydrogeology

Based on field observations, the site lithology beneath the site is a clayey sand from the surface to approximately 10-11 feet bgs. The clayey sand is underlain by a sandy clay from approximately 10-11 feet bgs to approximately 15-17 feet bgs. A sandy, silty, claystone confining layer was observed from approximately 15-17 feet bgs to approximately 25 feet bgs.

Historic depth to groundwater beneath the site has been observed between approximately 2.3 and 14.1 feet bgs. An irrigation canal is located southeast of the site which may influence groundwater elevations and flow direction, seasonally beneath the site. In September 2013, historic flooding occurred in Weld County causing increases in groundwater elevation data was observed during the September 2013 groundwater sampling event.

3.0 MONITORING WELL REPLACEMENT ACTIVITIES

3.1 Field Work Preparation and Planning

The Utility Notification Center of Colorado (UNCC) was called at least 48 hours in advance of drilling activities to confirm no unmarked utilities or other obstacles were present within the proposed drilling locations. Tier II facility owners were also contacted to confirm the necessary buried utility notifications were completed. Each boring location was also cleared to a depth of approximately 5-6 feet bgs, prior to the advancement of any proposed soil boring, with a pothole or “daylighting” rig, to ensure no unmarked utilities were present beneath the boring location. Prior to completing subsurface activities, a Ground Disturbance Form was completed by Encana and EAGLE.

3.2 Monitoring Well Replacement Activities

On June 20 and 23, 2014, Site Services LLC (Site Services) utilized a Central Mining Equipment (CME) 55 drill rig to complete monitoring well replacement activities. Three soil borings were advanced and completed into 2-inch groundwater monitoring wells (MW-01R, MW-03R, and MW-04R) on June 20, 2014. Three additional soil borings were advanced and completed into 2-inch groundwater monitoring wells (MW-02R, MW-05R, and MW-06R) on June 23, 2014. Monitoring wells, MW-01R, MW-02R, and MW-04 through MW-06R, were completed with steel protective riser casings. Monitoring well MW-03R was completed with a 8-inch steel, traffic rated, flush mount.

Soil boring logs/monitoring well completion diagrams are included in Attachment A. Colorado Division of Water Resources (DWR) Well Permits are included in Attachment B.

3.3 Soil Sampling Procedures

During monitoring well installation activities, two-foot soil samples were collected at 5-foot intervals, with a stainless steel, spilt-spoon, sampler. A portion of each soil sample was placed in a sealable plastic bag for volatile organic compound (VOC) headspace analysis. The bag was sealed, labeled, and allowed to volatilize for approximately five to ten minutes. The other portion of the soil sample was placed in a laboratory supplied, 4-ounce, glass jar and sealed for laboratory analysis. All jarred soil samples were placed in an iced cooler following collection. After volatilization, the bagged sample was perforated with the probe of a field portable photoionization detector (PID), using a 10.6 electron volt (eV) lamp, to measure the organic vapor concentration within the headspace. Organic vapor concentrations were recorded in parts per million by volume (ppm-v) for each sample. Overall, the observed PID values ranged from 0.2 ppm-v (MW-03R@5-7' bgs) to 1,850 ppm-v (MW-06R@5-7' bgs).

Based on PID reading and sample location, the soil samples collected from MW-01R through MW-06R were submitted to ESC Lab Sciences (ESC) located in Mt. Juliet Tennessee. Soil samples, MW-01R@9-11', MW-02R@9-11', MW-03R@10-12', MW-04R@9-11', MW-05R@14-16', and MW-06R@5-7' were submitted for analysis of BTEX and TPH-GRO following EPA Methods 8021/8015, and TPH-DRO following modified EPA Method 3546. Soil sample MW-06R@5-7' was also analyzed for 13 polycyclic aromatic hydrocarbons (PAHs) following EPA Method 8270C-SIM, metals following EPA Methods

6010B and 3060A/7196A, pH following EPA Method 9045D, specific conductance following EPA Method 9050A Mod., sodium adsorption ratio (SAR), and arsenic following EPA Method 6010B.

Following monitoring well replacement activities, monitoring wells MW-01, MW-02, and MW-05 through MW-11 were abandoned per DWR well abandonment guidelines. In addition, spatial locations of replacement wells MW-01R through MW-06R were recorded using a Trimble GeoXT 6000 series instrument and their locations were updated on the current site map.

A representative from ESC picked up the soil samples under proper chain-of custody procedures for shipment to the laboratory and the soil samples were received within quality assurance/quality control (QA/QC) parameters.

3.4 Soil Analytical Results

Based on laboratory analytical results, the soil samples collected from monitoring wells MW-01R@9-11' and MW-06R@5-7' contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit of 0.17 mg/kg with concentrations of 1.70 mg/kg and 4.7 mg/kg, respectively. Soil samples MW-01R@9-11' and MW-06R@5-7' also contained concentrations of TPH exceeding the COGCC Table 910-1 regulatory limit of 500 mg/kg with concentrations of 1,160 mg/kg and 1,730 mg/kg, respectively. In addition, soil sample MW-06R@5-7' contained a concentration of arsenic exceeding the COGCC Table 910-1 regulatory limit of 0.39 mg/kg with a concentration of 4.3 mg/kg.

Soil sample MW-06R@5-7' did not contain PAH, specific conductance, pH, or SAR concentrations/values exceeding their respective COGCC Table 910-1 regulatory limits. The soil samples collected from the remaining monitoring wells did not contain concentrations of BTEX, TPH-GRO, or TPH-DRO exceeding their respective COGCC Table 910-1 regulatory limits.

Soil analytical results are summarized in Table 1, Table 1A, and Table 1B. Soil analytical results are also presented in Figure 3. Soil laboratory analytical reports are included in Attachment C.

4.0 GROUNDWATER MONITORING ACTIVITIES

4.1 Groundwater Sampling Procedures

Following monitoring well replacement activities, MW-01R through MW-06R were developed and purged a minimum of six well volumes using a Geo Pump Series 1 peristaltic pump. In addition, EAGLE surveyed the top of casing (TOC) elevation for each monitoring well location for accurate groundwater elevations and flow direction interpretation.

Prior to groundwater sample collection, MW-01R through MW-06R were purged with a peristaltic pump and flow cell at a rate of no more than 500 milliliters per min (mL/min). During purging activities, groundwater parameters were monitored for stabilization. Groundwater samples were collected in 40 milliliter (mL) amber vials once the parameters were observed stable, or following approximately 15 minutes of purging activities. The following field parameters were recorded prior to groundwater sample collection:

- initial depth to groundwater using an interface probe capable of measuring the depth to groundwater or product to an accuracy of 0.01 feet;

- dissolved oxygen (DO) concentrations, pH, temperature, specific conductance, and oxidation reduction potential (ORP) values using a YSI 556 MultiMeter probe within a flow cell.

Following groundwater sample collection, the following field parameters were recorded:

- final depth to groundwater using an interface probe capable of measuring the depth to groundwater or product to an accuracy of 0.01 feet.

4.2 Groundwater Sampling Activities

Groundwater samples were submitted to ESC for analysis of BTEX following EPA Method 8260B. A representative from ESC picked up the groundwater samples under proper chain-of custody procedures for shipment to the laboratory and the samples were received within QA/QC parameters.

The following describes quarterly groundwater sampling activities completed at the site from June 2014 through March 2015:

June 26, 2014:

Groundwater samples were collected from MW-01R through MW-06R with relative groundwater elevations ranging from 95.93 feet in MW-03R to 99.02 feet in MW-01R, MW-02R, and MW-04R. Groundwater flow direction was predominantly to the north with a calculated hydraulic gradient of 0.0829 feet per foot (ft./ft.) across the site (measured from MW-06R to MW-03R). Groundwater flow direction may have been influenced by the excavation activities completed at the site in June 2014.

Groundwater Analytical Results

Groundwater samples collected from MW-01R, MW-02R, MW-05R, and MW-06R contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit of 5 micrograms per liter ($\mu\text{g/L}$) with concentrations of 350 $\mu\text{g/L}$, 460 $\mu\text{g/L}$, 41 $\mu\text{g/L}$, and 5,500 $\mu\text{g/L}$, respectively. In addition, the groundwater sample collected from MW-06R also contained a concentration of total xylenes exceeding the COGCC Table 910-1 regulatory limit of 1,400 $\mu\text{g/L}$ with a concentration of 2,000 $\mu\text{g/L}$.

September 26, 2014:

Groundwater samples were collected from MW-01R through MW-06R with relative groundwater elevations ranging from 97.34 feet in MW-03R to 100.59 feet in MW-02R. Groundwater elevations increased approximately 1.12 feet compared to the June 26, 2014 groundwater sampling event. Groundwater flow direction was predominantly to the east with a calculated hydraulic gradient of 0.0158 ft./ft. across the site (measured from MW-01R to MW-05R).

Groundwater Analytical Results

Groundwater samples collected from MW-01R and MW-06R contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit with concentrations of 93 $\mu\text{g/L}$ and 3,600 $\mu\text{g/L}$, respectively.

December 8, 2014:

Groundwater samples were collected from MW-01R through MW-06R with relative groundwater elevations ranging from 94.30 feet in MW-05R to 98.03 feet in MW-02R. Groundwater elevations decreased approximately 3.09 feet compared to the September 26, 2014 groundwater sampling event. Groundwater flow direction was predominantly to the east with a calculated hydraulic gradient of 0.0299 ft./ft. across the site (measured from MW-01R to MW-05R).

Groundwater Analytical Results

Groundwater samples collected from MW-01R and MW-06R contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit with concentrations of 110 µg/L and 6,800 µg/L, respectively.

March 9, 2015:

Groundwater samples were collected from MW-01R through MW-06R and was encountered at relative groundwater elevations ranging from 91.67 feet in MW-05R to 95.87 feet in MW-02R. Groundwater elevations decreased approximately 2.34 feet compared to the December 8, 2014 groundwater sampling event. Groundwater flow direction was predominantly to the east with a calculated hydraulic gradient of 0.0323 ft./ft. across the site (measured from MW-01R to MW-05R).

Groundwater Analytical Results

Groundwater samples collected from MW-02R and MW-06R contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit with concentrations of 160 µg/L and 8,400 µg/L, respectively.

A site map presenting the March 9, 2015 groundwater elevations and flow direction is included as Figure 4. A summary of groundwater elevation data is included as Table 2.

The March 9, 2015 groundwater analytical results are presented in Figure 5 and summarized in Table 3. Groundwater laboratory analytical reports are included in Attachment C. Hydrographs illustrating benzene concentrations vs. relative groundwater elevations for monitoring wells MW-01R, MW-02R, MW-05R, and MW-06R are included in Attachment D.

5.0 SITE SUMMARY

Following the June 2014 source removal excavation/well replacement activities, decreasing trends in dissolved phase benzene concentrations have been observed within MW-01R, MW-02R, and MW-05R. However, an increasing trend in dissolved phase benzene concentrations has been observed within MW-06R.

Based on laboratory analytical results, adsorbed phase benzene impacts exceeding COGCC Table 910-1 regulatory limits were observed within soil samples MW-01R@9-11' and MW-06R@5-7'. Residual adsorbed petroleum hydrocarbons observed within MW-01R and MW-06R will most likely continue to leach into the aquifer and result in elevated dissolved benzene concentrations in and around MW-01R and MW-06R. Addressing the soil source via in-situ or mechanical technology will help decrease residual dissolved petroleum hydrocarbon concentrations beneath the site.

6.0 CONCLUSIONS

Based on the information described above, EAGLE concludes the following:

- Encana completed source removal activities via three excavations at the site in June 2014.
- The soil samples collected from monitoring wells MW-01R@9-11' and MW-06R@5-7' contained concentrations of benzene and TPH exceeding their respective COGCC Table 910-1 regulatory limits.
- Soil sample MW-06R@5-7' did not contain PAH, specific conductance, pH, or SAR concentrations/values exceeding their respective COGCC Table 910-1 regulatory limits.
- The arsenic concentration observed within soil sample, MW-06R@5-7' exceeds the COGCC Table 910-1 regulatory limit; however the arsenic concentration is within the limits documented in the CDPHE Risk Management Guidance Document for Evaluating Arsenic Concentrations in Soil.
- Monitoring wells MW-01, MW-02, and MW-05 through MW-11 were abandoned per the DWR well abandonment guidelines.
- The groundwater samples collected from MW-01R, MW-02R, MW-05R, and MW-06R during the June 26, 2014 groundwater sampling event contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit. In addition, the groundwater sample collected from MW-06R during the June 26, 2014 groundwater sampling event also contained a concentration of total xylenes exceeding the COGCC Table 910-1 regulatory limit.
- The groundwater samples collected from MW-01R and MW-06R during the September 26, 2014 groundwater sampling event contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit.
- The groundwater samples collected from MW-01R and MW-06R during the December 8, 2014 groundwater sampling event contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit.
- Groundwater elevations decreased approximately 2.34 feet during March 2015 compared to the December 2014 groundwater sampling event.
- Groundwater flow direction during the March 9, 2015 groundwater sampling event was predominantly to the east with a calculated hydraulic gradient of 0.0323 ft./ft. across the site (measured from MW-01R to MW-05R).
- Groundwater samples collected from MW-02R and MW-06R during the March 9, 2015 groundwater sampling event contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit.

7.0 RECOMMENDATIONS

- Continued groundwater sampling activities to evaluate natural attenuation processes occurring beneath the site.
- Discuss remedial options to address dissolved phase petroleum hydrocarbon impacts remaining beneath the site.

EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact us at (303) 433-0479.

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.

A handwritten signature in blue ink, appearing to read 'D. Coloccia', with a stylized flourish at the end.

Daniel Coloccia
Project Scientist

A handwritten signature in blue ink, appearing to read 'M. Eckert III', with a stylized flourish at the end.

Martin Eckert III
Senior Project Manager

FIGURES

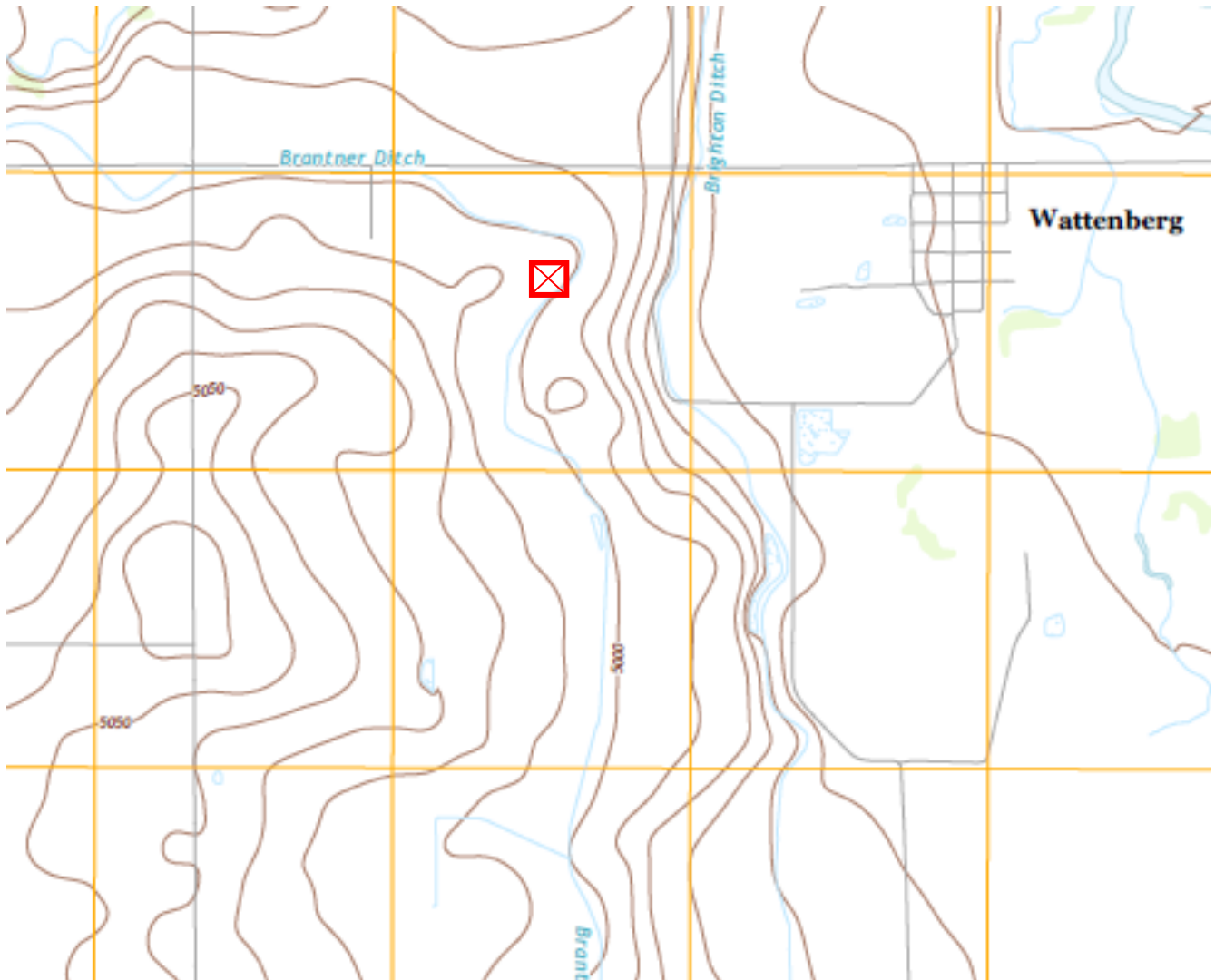
Figure 1: Site Location Map

Figure 2: Site Map

Figure 3: Soil Sample Location Map

Figure 4: Groundwater Elevation Map (03/09/15)

Figure 5: Groundwater Sample Location Map (03/09/15)



 APPROXIMATE LOCATION OF MOSER 1

TOPOGRAPHIC MAP OBTAINED FROM USGS

FORT LUPTON, QUADRANGLE COLORADO UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE SERIES

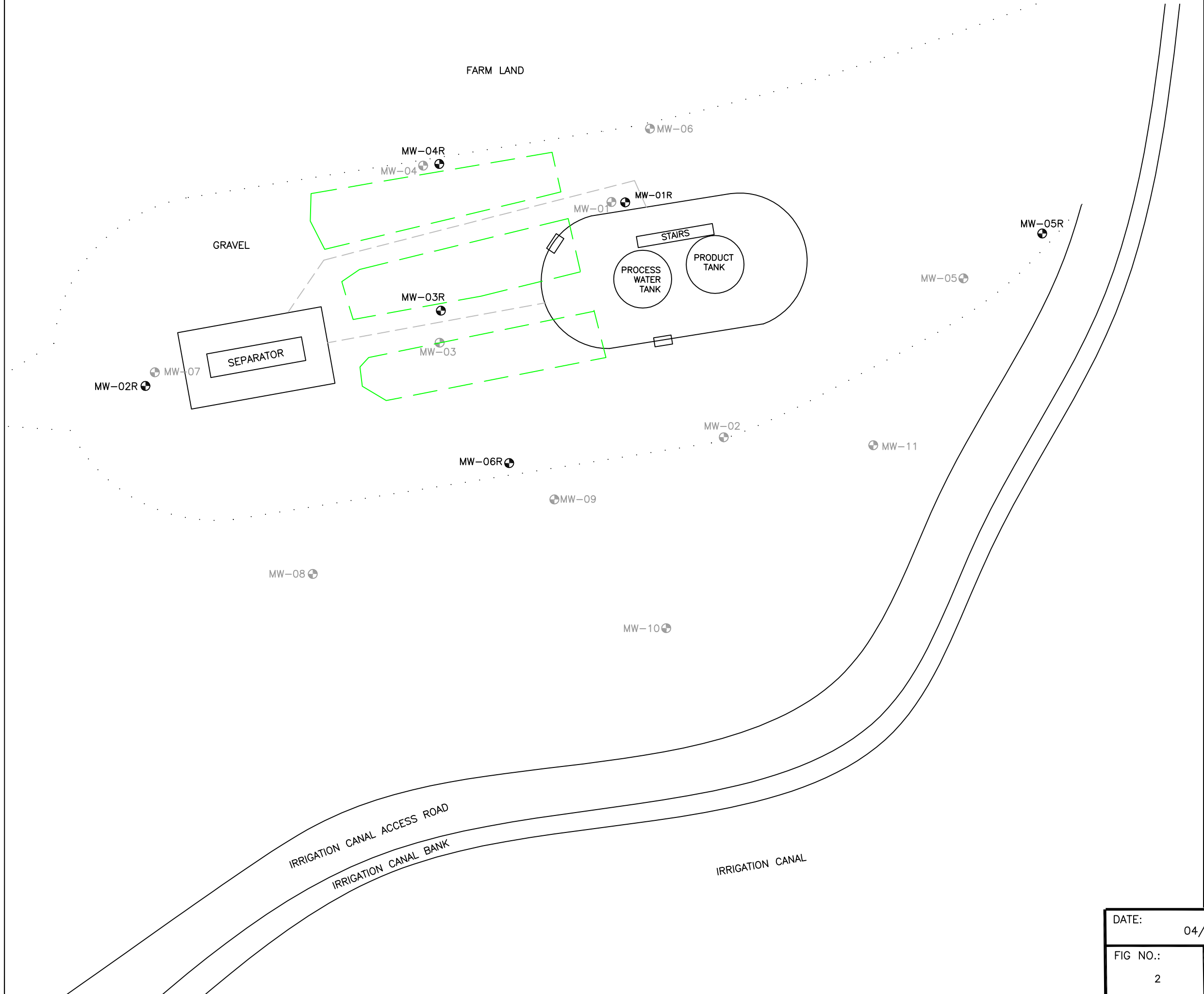
FIGURE 1
SITE LOCATION MAP
MOSER 1
 API# 05-123-08041
 NE 1/4 NE 1/4 SEC.26 T1N R67W 6PM
 LAT./LONG.: 40.025851/-104.853189
 WELD COUNTY, COLORADO



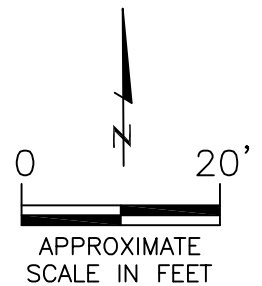
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NOT TO SCALE

DATE: 04/28/14



- LEGEND**
- APPROXIMATE MONITORING WELL LOCATION
 - APPROXIMATE ABANDONED MONITORING WELL LOCATION
 - APPROXIMATE WELL PAD BOUNDARY
 - APPROXIMATE FLOW LINE LOCATION
 - APPROXIMATE EXCAVATION EXTENTS

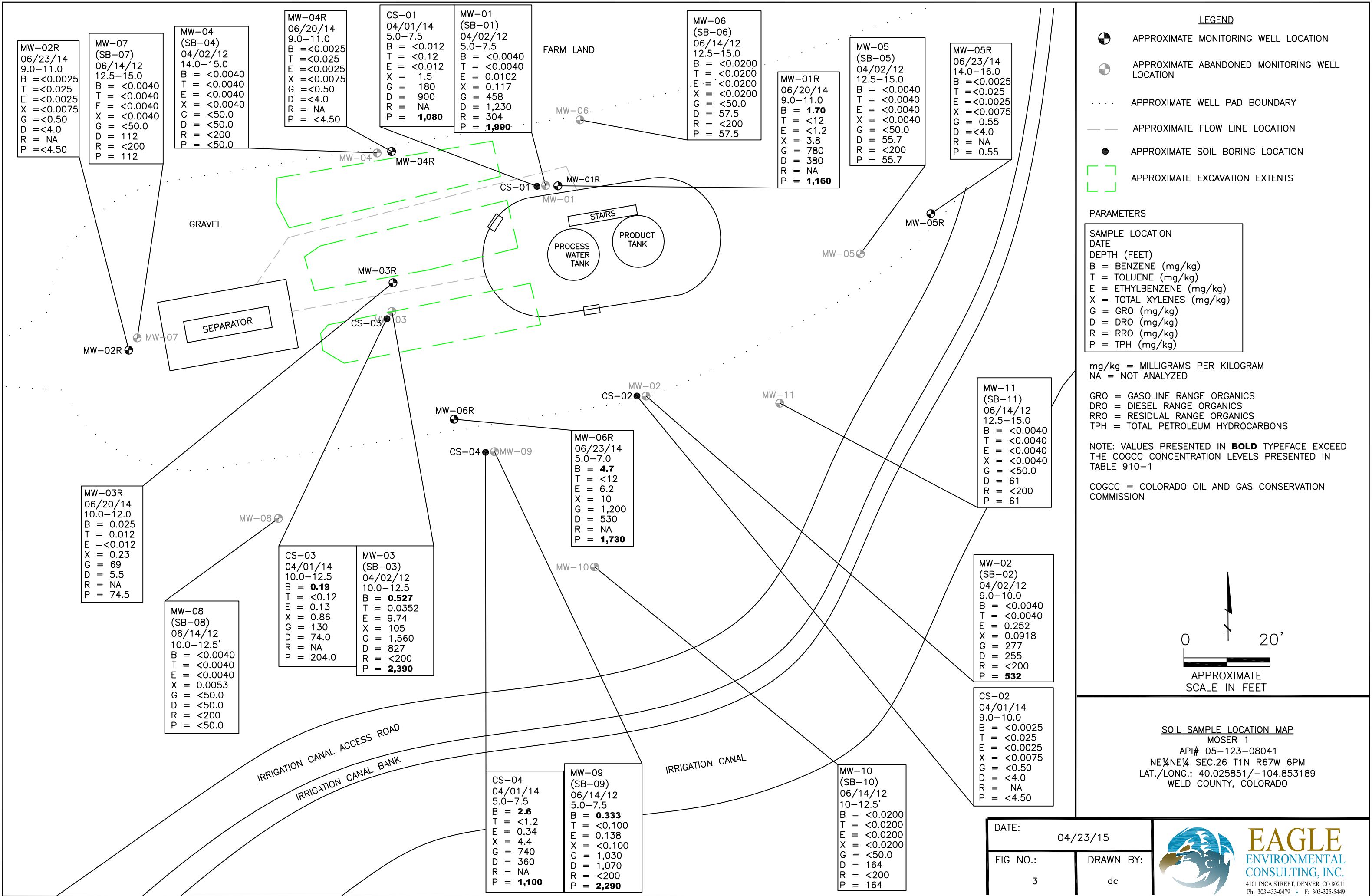


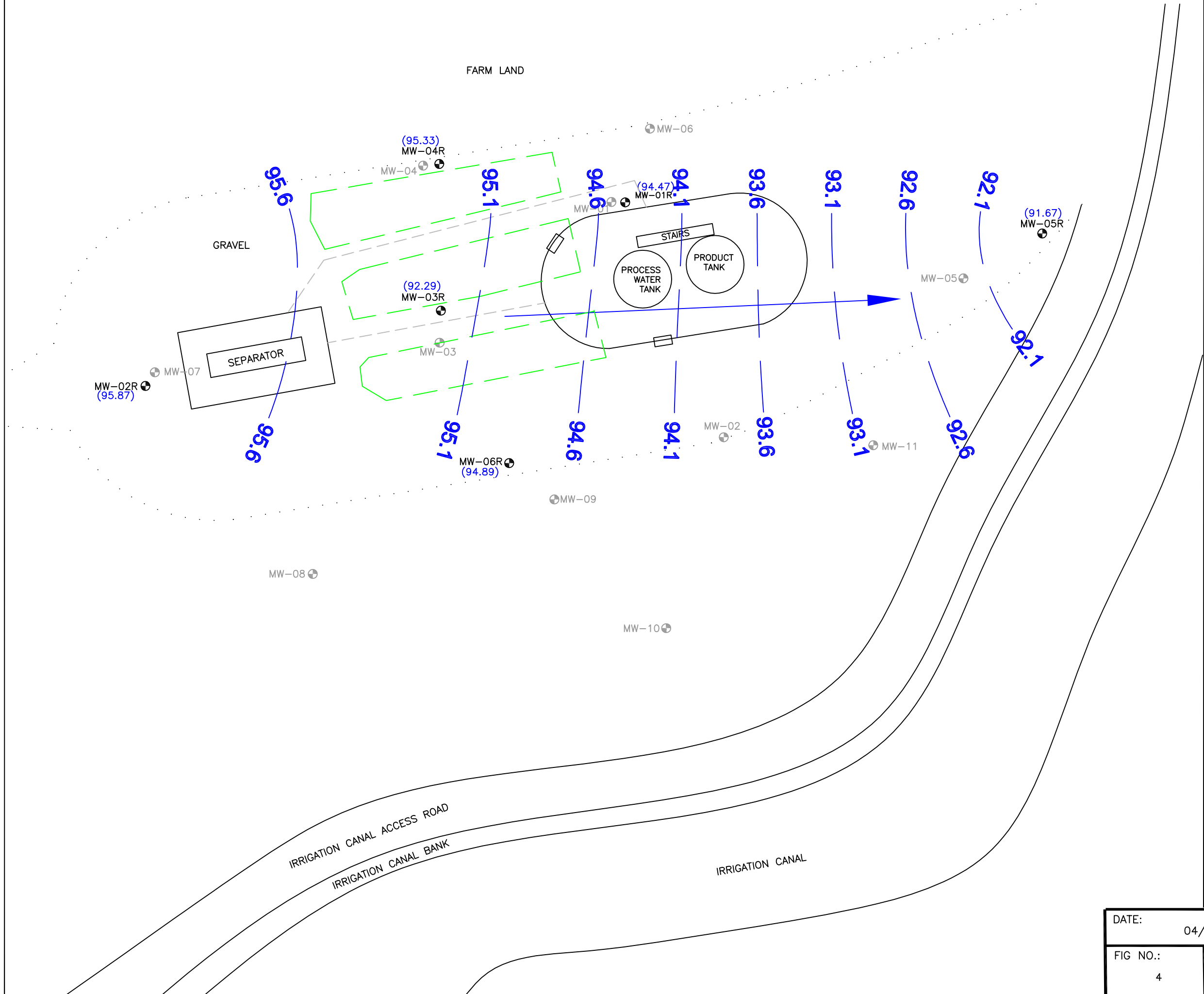
SITE MAP
MOSER 1
API# 05-123-08041
NE¼NE¼ SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

DATE:	04/23/15
FIG NO.:	2
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EAGLE
ENVIRONMENTAL
CONSULTING, INC.
4101 INCA STREET, DENVER, CO 80211
Ph: 303-433-0479 • F: 303-325-5449





LEGEND

- APPROXIMATE MONITORING WELL LOCATION
- APPROXIMATE ABANDONED MONITORING WELL LOCATION
- APPROXIMATE WELL PAD BOUNDARY
- APPROXIMATE FLOW LINE LOCATION
- APPROXIMATE EXCAVATION EXTENTS
- (89.69) RELATIVE GROUNDWATER ELEVATION (FEET)
- INFERRED GROUNDWATER ELEVATION CONTOUR (FEET)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTE: GROUNDWATER FLOW DIRECTION MAY BE INFLUENCED BY THE EXCAVATION ACTIVITIES COMPLETED ON SITE IN JUNE 2014.

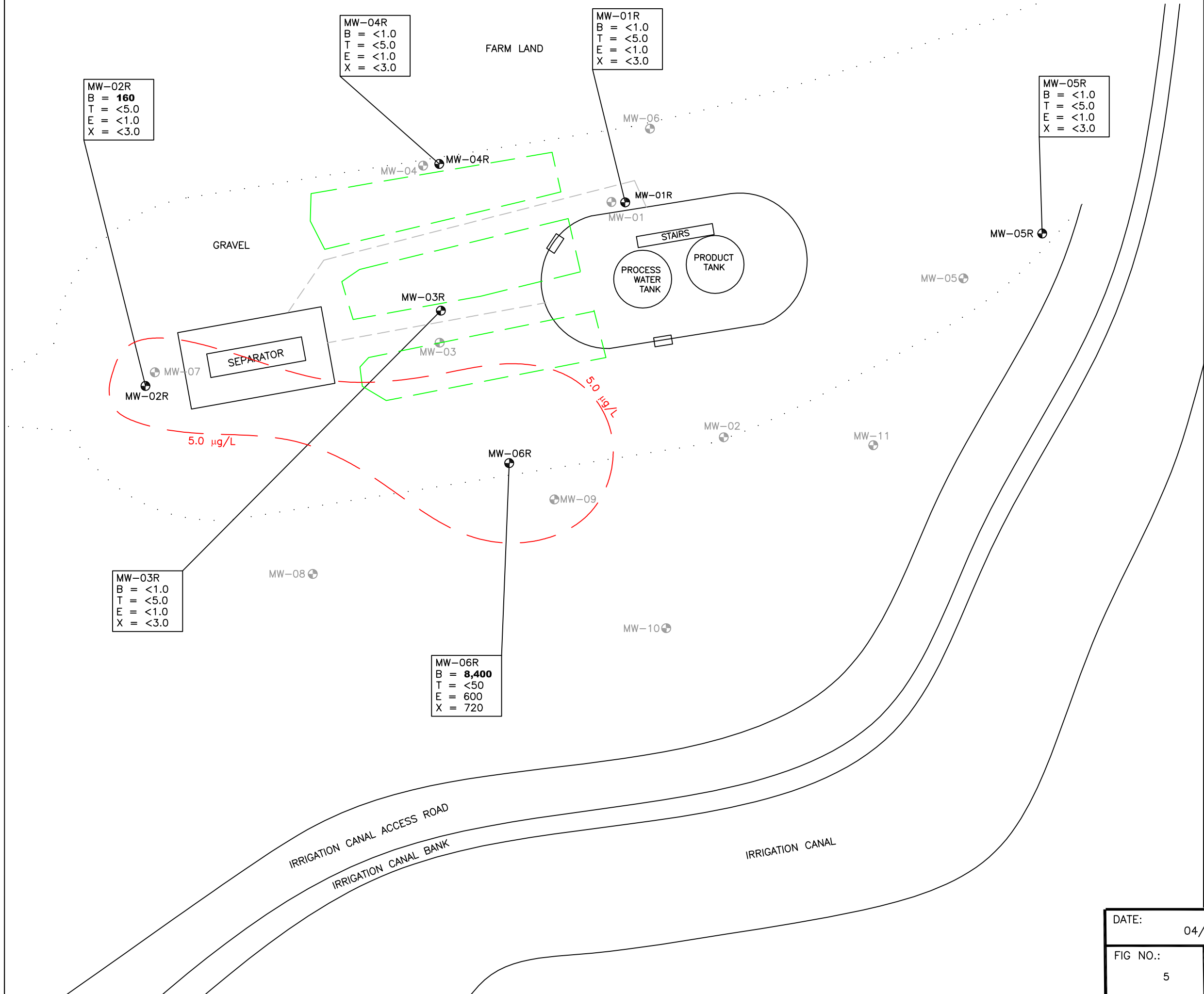
GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING WELL MW-03R WAS NOT UTILIZED WHEN CONSTRUCTING GROUNDWATER ELEVATION CONTOURS.

APPROXIMATE
SCALE IN FEET

GROUNDWATER ELEVATION MAP
(03/09/15)
MOSER 1
API# 05-123-08041
NE¼NE¼ SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

DATE:	04/23/15	
FIG NO.:	4	DRAWN BY: dc

EAGLE
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LEGEND

- APPROXIMATE MONITORING WELL LOCATION
- APPROXIMATE ABANDONED MONITORING WELL LOCATION
- APPROXIMATE WELL PAD BOUNDARY
- APPROXIMATE FLOW LINE LOCATION
- APPROXIMATE EXCAVATION EXTENTS

PARAMETERS

SAMPLE LOCATION

B = BENZENE (µg/L)

T = TOLUENE (µg/L)

E = ETHYLBENZENE (µg/L)

X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

NOTE: VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED THE COGCC TABLE 910-1 REGULATORY LIMITS FOR THAT COMPOUND.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT THE LABORATORY REPORTING LIMIT.

APPROXIMATE BOUDARY OF BENZENE CONCENTRATION EXCEEDING 5.0 µg/L

APPROXIMATE SCALE IN FEET

GROUNDWATER SAMPLE LOCATION MAP
(03/09/15)
MOSER 1
API# 05-123-08041
NE¼NE¼ SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

TABLES

Table 1: Soil Analytical Results Summary

Table 1A: Soil Analytical Results Summary – Semi Volatile Organics

Table 1B: Soil Analytical Results Summary – Metals and Inorganics

Table 2: Groundwater Elevation and Parameter Summary

Table 3: Groundwater Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
MOSER 1
API# 05-123-08041
NE1/4 NE1/4 SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

Sample Location (Latitude / Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	RRO (mg/kg)	TPH (mg/kg)
COGCC Concentration Levels Table 910-1 (mg/kg)			0.17	85	100	175				500
MW-01 (SB-01) (40.02600362, -104.8526977)	04/02/12	5.0-7.5	<0.0040	<0.0040	0.010	0.117	458	1230	304	1,990
MW-02 (SB-02) (40.02586803, -104.8526163)	04/02/12	9.0-10.0	<0.0040	<0.0040	0.252	0.0918	277	255	<200	532
MW-03 (SB-03) (40.02592447, -104.858244)	04/02/12	10.0-12.5	0.527	0.0352	9.74	105	1,560	827	<200	2,390
MW-04 (SB-04) (40.02603375, -104.8527869)	04/02/12	14.0-15.0	<0.0040	<0.0040	<0.0040	<0.0040	<50.0	<50.0	<200	<50.0
MW-05 (SB-05) (40.02595864, -104.8524377)	04/02/12	12.5-15.0	<0.0040	<0.0040	<0.0040	<0.0040	<50.0	55.7	<200	55.7
MW-06 (SB-06) (40.02604393, -104.8527037)	06/14/12	12.5-15.0	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	57.5	<200	57.5
MW-07 (SB-07) (40.02590895, -104.8530370)	06/14/12	12.5-15.0	<0.0040	<0.0040	<0.0040	<0.0040	<50.0	112	<200	112
MW-08 (SB-08) (40.02579278, -104.8529212)	06/14/12	10.0-12.5	<0.0040	<0.0040	<0.0040	0.0053	<50.0	<50.0	<200	<50.0
MW-09 (SB-09) (40.02583446, -104.8527419)	06/14/12	5.0-7.5	0.333	<0.100	0.138	<0.100	1,030	1,070	<200	2,290
MW-10 (SB-10) (40.02576011, -104.8526595)	06/14/12	10.0-12.5	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	164	<200	164
MW-11 (SB-11) (40.02586384, -104.8525052)	06/14/12	12.5-15.0	<0.0040	<0.0040	<0.0040	<0.0040	<50.0	61	<200	61
CS-01 (40.02600360, -104.8526978)	04/01/14	5.0-7.5	<0.012	<0.12	<0.012	1.5	180	900	NA	1,080
CS-02 (40.02586802, -104.8526165)	04/01/14	9.0-10.0	<0.0025	<0.025	<0.0025	<0.0075	<0.50	<4.0	NA	<4.50
CS-03 (40.02592445, -104.858245)	04/01/14	10-12.5	0.19	<0.12	0.13	0.86	130	74.0	NA	204.0
CS-04 (40.02583449, -104.8527421)	04/01/14	5.0-7.5	2.6	<1.2	0.34	4.4	740	360	NA	1,100
MW-01R (40.02600013, -104.852709135)	06/20/14	9.0-11.0	1.70	<12	<1.2	3.8	780	380	NA	1,160
MW-02R (40.025908237, -104.853023913)	06/23/14	9.0-11.0	<0.0025	<0.025	<0.0025	<0.0075	<0.50	<4.0	NA	<4.50
MW-03R (40.025952732, -104.852850789)	06/20/14	10.0-12.0	0.025	0.012	<0.012	0.23	69	5.5	NA	74.5
MW-04R (40.026041027, -104.852853347)	06/20/14	9.0-11.0	<0.0025	<0.025	<0.0025	<0.0075	<0.50	<4.0	NA	<4.50
MW-05R (40.025976377, -104.852427155)	06/23/14	14.0-16.0	<0.0025	<0.025	<0.0025	<0.0075	0.55	<4.0	NA	0.55
MW-06R (40.025824658, -104.852757428)	06/23/14	5.0-7.0	4.7	<12	6.2	10	1,200	530	NA	1,730

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

GRO = Gasoline Range Organics (C6-C10)

DRO = Diesel Range Organics (C10-C28)

RRO = Residual Range Organics (C28-C36)

TPH = Total Petroleum Hydrocarbons

NA = Not Analyzed

Note: Values presented in bold typeface exceed the COGCC Concentration Levels Table 910-1

TABLE 1A
SOIL ANALYTICAL RESULTS SUMMARY - SEMI VOLATILE ORGANICS
MOSER 1
API# 05-123-08041
NE1/4 NE1/4 SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

Sample Location	Date	Approximate Depth (feet)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(A) anthracene (mg/kg)	Benzo(B) fluoranthene (mg/kg)	Benzo(k) fluoranthene (mg/kg)	Benzo(A) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenzo(A,H) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3,C,D)pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 910-1 Regulatory Limit (mg/kg)			1,000	1,000	0.22	0.22	2.2	0.022	22	0.022	1,000	1,000	0.22	23	1,000
MW-06R	06/23/14	5.0-7.0	0.10	0.15	<0.0060	0.0062	<0.0060	<0.0060	0.045	<0.0060	0.023	0.36	<0.0060	1.6	0.052

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

< = indicates result is less than the stated laboratory reporting limit

Note: Values presented in bold typeface exceed their respective COGCC Table 910-1 Regulatory Limit.

TABLE 1B
 SOIL ANALYTICAL RESULTS SUMMARY - METALS AND INORGANICS
 MOSER 1
 API# 05-123-08041
 NE1/4 NE1/4 SEC.26 T1N R67W 6PM
 LAT./LONG.: 40.025851/-104.853189
 WELD COUNTY, COLORADO

			Metals												Inorganics		
Sample Location	Depth (feet)	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (III) (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Electrical Conductivity (EC)	Sodium Adsorption Ratio (SAR)	pH
COGCC Table 910-1 Regulatory Limit (mg/kg)			0.39	15,000	70	120,000	23	3,100	400	23	1,600	390	390	23,000	<4mmhos/cm	<12^5	6-9
MW-06R	5.0-7.0	06/23/14	4.3	230	<0.50	15	<2.0	10	7.9	<0.020	8.3	<2.0	<1.0	39	0.88	24	8.4

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

NA = Not analyzed

< = indicates result is less than the stated laboratory reporting limit

Note: Values presented in bold typeface exceed their respective COGCC Table 910-1 Regulatory Limit.

API# 05-123-08041
NE1/4 NE1/4 SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

Sample Location	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Oxidation Reduction Potential (mV)	
MW-01 (SB-01)	04/03/12	100.00	13.50	84.37	NM	NM	NM	NM	NM	
	06/15/12		6.15	91.72	NM	NM	NM	NM	NM	
	09/28/12		6.20	91.67	NM	NM	NM	NM	NM	
	12/13/12		10.55	87.32	1.12	11.9	3,427	7.80	-78.5	
	04/10/13		13.70	84.17	0.16	10.3	1,709	7.12	-176.0	
	06/21/13		8.55	89.32	0.88	16.05	2,834	7.72	-140.8	
	09/25/13		5.62	92.25	0.47	18.84	3,848	6.9	-190.9	
	12/19/13		9.90	87.97	1.56	12	2,979	7.13	-112.2	
	03/24/14		11.83	86.04	0.72	10.3	2,036	7.21	-26.5	
	07/11/14				ABANDONED					
MW-02 (SB-02)	04/03/12	99.6	11.55	86.32	NM	NM	NM	NM	NM	
	06/15/12		6.35	91.52	NM	NM	NM	NM	NM	
	12/13/12		9.25	88.62	1.61	11.6	1,613	8.53	-102.5	
	04/11/13		12.03	85.84	0.22	9.8	1,247	7.05	-135.8	
	06/21/13		6.40	91.47	1.03	16.39	1,675	8.00	-161.6	
	09/25/13		DES	DES	DES	DES	DES	DES	DES	
	07/11/14				ABANDONED					
MW-03 (SB-03)	04/03/12	97.41	9.35	88.52	NM	NM	NM	NM	NM	
	06/15/12		3.24	94.63	NM	NM	NM	NM	NM	
	12/13/12		6.40	91.47	10.87	11.7	6,402	11.12	-91.8	
	04/11/13		9.50	88.37	0.21	11.2	2,676	7.46	-147.3	
	06/21/13		5.21	92.66	1.04	15.63	2,730	8.48	-181.9	
	09/25/13		2.92	94.95	1.02	21.63	4,906	7.20	-153.1	
	12/19/13		5.88	91.99	1.59	12.80	3,866	7.28	-81.8	
	03/24/14		7.73	90.14	0.92	10.1	1,985	7.44	-45.2	
	07/11/14				ABANDONED					
	MW-04 (SB-04)	04/03/12	97.87	10.00	87.87	NM	NM	NM	NM	NM
06/15/12			3.70	94.17	NM	NM	NM	NM	NM	
12/12/12			6.95	90.92	1.20	13.0	2,629	8.03	74.8	
04/11/13			10.23	87.64	0.36	9.9	2,163	7.25	-57.8	
06/21/13			NOP	NOP	NOP	NOP	NOP	NOP	NOP	
09/25/13			NOP	NOP	NOP	NOP	NOP	NOP	NOP	
12/19/13			NOP	NOP	NOP	NOP	NOP	NOP	NOP	
03/24/14			8.40	89.47	1.85	9.9	2,197	7.22	0.3	
07/11/14					ABANDONED					
MW-05 (SB-04)		04/03/12	99.69	10.00	89.69	NM	NM	NM	NM	NM
	06/15/12		6.90	92.79	NM	NM	NM	NM	NM	
	12/12/12		8.67	91.02	2.45	13.2	2,739	7.60	84.0	
	04/11/13		12.40	87.29	3.37	7.8	956	7.80	14.3	
	06/21/13		5.95	93.74	2.51	19.22	1,935	7.77	-49.4	
	09/25/13		6.13	93.56	0.68	18.63	2,214	6.83	-166.0	
	12/19/13		9.43	90.26	1.18	11.2	2,355	6.86	10.9	
	03/24/14		INA	INA	3.11	8.3	1,630	7.05	-70.1	
	07/11/14				ABANDONED					
	MW-06 (SB-06)	06/15/12	97.61	3.70	93.91	NM	NM	NM	NM	NM
12/12/12			7.15	90.46	1.61	12.4	3,831	7.95	86.4	
04/11/13			10.43	87.18	0.17	10.5	2,170	7.30	-142.5	
06/21/13			5.72	91.89	1.77	14.68	3,299	8.08	-118.3	
09/25/13			2.33	95.28	0.71	19.61	3,219	7.33	-154.8	
12/19/13			6.63	90.98	1.71	10.6	2,665	7.27	-19.8	
03/24/14			8.60	89.01	0.73	10.2	1,672	7.39	-28.6	
07/11/14					ABANDONED					
MW-07 (SB-07)		06/15/12	97.96	3.87	94.09	NM	NM	NM	NM	NM
		12/12/12		6.64	91.32	2.30	12.8	3,302	7.78	93.9
	04/11/13		9.65	88.31	0.28	10.1	2,368	7.04	-68.3	
	06/21/13		NOP	NOP	NOP	NOP	NOP	NOP	NOP	
	07/25/13		3.66	94.30	1.38	17.57	3,187	7.11	-56.7	
	09/26/13		2.31	95.65	1.28	19.71	6,010	7.23	63.8	
	12/19/13		6.19	91.77	2.31	11.10	5,063	7.21	241.6	
	03/24/14		8.00	89.96	2.20	9.4	3,220	7.13	2.2	
	07/11/14				ABANDONED					
	MW-08 (SB-08)	06/15/12	100.44	6.90	93.54	NM	NM	NM	NM	NM
12/12/12			9.70	90.74	1.59	12.6	1,956	7.95	43.4	
04/11/13			11.75	88.69	0.11	9.8	1,661	7.34	-136.9	
06/21/13			NOP	NOP	NOP	NOP	NOP	NOP	NOP	
09/25/13			NOP	NOP	NOP	NOP	NOP	NOP	NOP	
12/19/13			NOP	NOP	NOP	NOP	NOP	NOP	NOP	
03/24/14			INA	INA	0.81	9.2	2,852	7.22	-6.8	
07/11/14					ABANDONED					

TABLE 2
GROUNDWATER ELEVATION AND PARAMETER SUMMARY
MOSER 1
API# 05-123-08041
NE1/4 NE1/4 SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

Sample Location	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°C)	Specific Conductivity (µS/cm)	pH	Oxidation Reduction Potential (mV)
MW-09 (SB-09)	06/15/12	100.58	6.63	93.95	NM	NM	NM	NM	NM
	12/13/12		NM	NM	NM	NM	NM	NM	NM
	04/11/13		NM	NM	NM	NM	NM	NM	NM
	06/21/13		8.06	92.52	1.49	17.66	5,609	9.13	-256.6
	09/25/13		5.15	95.43	1.16	19.48	4,227	7.49	-240.8
	12/19/13		9.15	91.43	1.57	9.5	4,616	7.37	-44.5
	03/24/14		10.86	89.72	1.16	8.9	2,717	7.53	-81.6
	07/11/14								
MW-10 (SB-10)	06/15/12	100.53	7.20	93.33	NM	NM	NM	NM	NM
	12/13/12		10.11	90.42	6.72	10.2	4,861	10.61	40.6
	04/11/13		12.15	88.38	0.22	10.1	2,457	6.87	-105.0
	06/21/13		7.21	93.32	1.07	14.47	2,647	8.25	-129.5
	09/25/13		6.26	94.27	3.06	17.44	3,493	7.03	-187.3
	12/19/13		9.41	91.12	1.01	11.4	2,144	7.03	-53.4
	03/24/14		INA	INA	1.12	8.5	1,261	7.18	-73.8
	07/11/14								
MW-11 (SB-11)	06/15/12	99.74	6.65	99.02	NM	NM	NM	NM	NM
	12/12/12		11.00	88.74	0.80	13.59	1,618	7.69	23.7
	04/11/13		14.10	85.64	0.12	7.7	1,116	7.11	-146.8
	06/21/13		6.41	93.33	1.04	17.41	2,043	7.92	-77.1
	09/25/13		6.14	93.60	0.53	17.69	4,714	7.09	-186.2
	12/19/13		9.83	89.91	0.96	11.4	1,847	7.11	-96.9
	03/24/14		INA	INA	1.21	9.4	1,208	7.25	-109.3
	07/11/14								
*MW-01R	06/26/14	103.94	4.92	99.02	1.03	16.5	3,237	7.33	-114.3
	09/26/14		3.85	100.09	0.39	18.1	3,173	7.24	10.6
	12/08/14		7.05	96.89	0.72	12.0	2,479	7.32	-126.1
	03/09/15		9.47	94.47	0.23	10.1	3,247	6.95	-140.5
*MW-02R	06/26/14	104.25	5.23	99.02	1.58	15.7	5,471	7.08	-18.3
	09/26/14		3.66	100.59	0.40	19.0	4,316	7.01	91.9
	12/08/14		6.22	98.03	0.80	12.6	3,774	7.19	47.6
	03/09/15		8.38	95.87	0.29	10.5	3,857	6.66	-43.6
MW-03R	06/26/14	101.04	5.11	95.93	0.86	16.3	4,530	7.47	-99.5
	09/26/14		3.70	97.34	0.44	17.8	3,274	7.27	6.5
	12/08/14		6.48	94.56	0.75	13.0	3,026	7.39	-86.1
	03/09/15		8.75	92.29	0.46	11.2	3,186	7.18	-117.5
*MW-04R	06/26/14	104.52	5.50	99.02	1.47	14.2	4,835	7.45	7.6
	09/26/14		3.99	100.53	0.58	17.8	4,552	7.23	104.9
	12/08/14		6.74	97.78	0.89	12.7	3,202	7.49	80.2
	03/09/15		9.19	95.33	0.40	10.3	4,559	7.16	45.2
*MW-05R	06/26/14	101.76	3.24	98.52	1.41	17.0	1,687	7.23	-22.4
	09/26/14		3.04	98.72	0.44	19.0	2,378	6.77	91.1
	12/08/14		7.46	94.30	0.94	12.5	1,936	7.08	5.3
	03/09/15		10.09	91.67	1.01	10.4	3,088	6.67	-71.6
*MW-06R	06/26/14	102.45	3.65	98.80	1.36	17.7	3,364	7.19	-87.6
	09/26/14		2.68	99.77	0.81	19.7	3,060	7.07	61.4
	12/08/14		5.48	96.97	0.68	12.3	2,894	7.18	-111.1
	03/09/15		7.56	94.89	0.48	10.3	3,891	6.77	-136.1

mg/L = milligrams per liter

°C = degrees Celcius

mS/cm = microSiemen per centimeter

mV = millivolt

INA = Inaccessible

NM = Not Measured

* Depth to groundwater is below grade surface elevation.

Ground surface elevation = TOC - height of stick up

Note: Monitoring well MW-03R was completed as a flush mount.

API# 05-123-08041
NE1/4 NE1/4 SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

Sample Location (Latitude, Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	RRO (mg/L)	TPH (mg/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
COGCC Concentration Levels Table 910-1 (µg/L)		5	560	700	1,400					*		*	*
MW-01 (SB-01) (40.02600362, -104.8526977)	04/03/12	931	1.5	10.9	9.3	154.0	204.0	61.8	420	NA	NA	NA	NA
	06/15/12	909	<1.0	7.7	25.6	<5.0	20.8	<20.0	20.8	NA	NA	NA	NA
	12/13/12	711	<2.0	11.5	78.5	192	240	55	487	NA	NA	NA	NA
	04/10/13	508	<2.0	<2.0	<6.0	NA	NA	NA	NA	261	<0.023	77.7	1,220
	06/21/13	89	<25	<2.5	21	NA	NA	NA	NA	NA	NA	NA	NA
	09/25/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/13	120	<25.0	<5.0	<15.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/24/14	82.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	310	<0.10	400	1,800
	07/11/14												
MW-02 (SB-02) (40.02586803, -104.8526163)	04/03/12	824	1	105	40.9	6.04	9.28	<20.0	15	NA	NA	NA	NA
	06/15/12	157	<1.0	21.2	2.7	<5.0	7.32	<20.0	7.32	NA	NA	NA	NA
	12/13/12	712	<1.0	8.08	<1.0	<5.0	8.14	<20.0	8.14	NA	NA	NA	NA
	04/11/13	676	<2.0	3.62	<2.0	NA	NA	NA	NA	238	<0.023	0.253	962
	06/21/13	160	<25	4.3	8.2	NA	NA	NA	NA	NA	NA	NA	NA
	09/25/13	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
	07/11/14												
MW-03 (SB-03) (40.02592447, -104.8528244)	04/03/12	2,720	<10.0	1,420	5,840	418	250	62	730	NA	NA	NA	NA
	06/15/12	987	<2.0	301	1,130	19.3	68.1	<20.0	87.4	NA	NA	NA	NA
	12/13/12	<2.0	<2.0	<2.0	<2.0	5.34	19.5	<20.0	24.8	NA	NA	NA	NA
	04/11/13	1.53	<1.0	<1.0	0.970	NA	NA	NA	NA	564	0.0332	1,000	2,340
	06/21/13	3.5	<5.0	1.0	3.2	NA	NA	NA	NA	NA	NA	NA	NA
	09/25/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/24/14	20.0	<5.0	2.4	<3.0	NA	NA	NA	NA	260	<0.10	100	1,800
	07/11/14												
MW-04 (SB-04) (40.02603375, -104.8527869)	04/03/12	<1.0	<1.0	<1.0	1.64	<5.0	<5.0	<20.0	<5.0	NA	NA	NA	NA
	06/15/12	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20.0	<5.0	NA	NA	NA	NA
	12/13/12	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20.0	<5.0	NA	NA	NA	NA
	04/11/13	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	344	0.0892	851	1,850

API# 05-123-08041
NE1/4 NE1/4 SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

Sample Location (Latitude, Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	RRO (mg/L)	TPH (mg/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
COGCC Concentration Levels Table 910-1 (µg/L)		5	560	700	1,400					*		*	*
MW-06 (SB-06) (40.02604393, -104.8527037)	06/15/12	<1.0	<1.0	<1.0	2.9	<5.0	6.11	<20.0	6.11	NA	NA	NA	NA
	12/13/12	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20.0	<5.0	NA	NA	NA	NA
	04/12/13	<1.0	<1.0	<1.0	<3.0	NA	NA	NA	NA	278	0.0392	526	1,600
	06/21/13	<0.50	<5.0	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA
	09/25/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/24/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	220	<0.10	370	1,600
	07/11/14	ABANDONED											
MW-07 (SB-07) (40.02590895, -104.8530370)	06/15/12	<1.0	<1.0	<1.0	11.4	<5.0	6.55	<20.0	6.55	NA	NA	NA	NA
	12/13/12	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20.0	<5.0	NA	NA	NA	NA
	04/12/13	464	<1.0	1.98	<3.0	NA	NA	NA	NA	825	0.0349	411	2,210
	06/21/13	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP
	07/25/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	09/26/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/24/14	16.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	510	<0.10	510	3,400
07/11/14	ABANDONED												
MW-08 (SB-08) (40.02579278, -104.8529212)	06/15/12	<1.0	<1.0	<1.0	<1.0	<5.0	5.63	<20.0	5.63	NA	NA	NA	NA
	12/13/12	<1.0	<1.0	<1.0	<1.0	<5.0	5.99	<20.0	5.99	NA	NA	NA	NA
	04/11/13	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	491	0.0277	694	1,820
	06/21/13	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP
	09/25/13	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP
	12/19/13	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP	NOP
	03/24/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	700	0.22	1,100	2,600
	07/11/14	ABANDONED											
MW-09 (SB-09) (40.02583446, -104.8527419)	06/15/12	4,080	<2.0	964	4,970	85.1	100	<20.0	185	NA	NA	NA	NA
	12/21/12	<1.0	<1.0	1.32	<1.0	NA	NA	NA	NA	NA	NA	NA	NA
	04/11/13	NOT ENOUGH WATER TO COLLECT GROUNDWATER SAMPLE											
	06/21/13	1.8	<5.0	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA
	09/25/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/24/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	720	0.16	1,200	3,100
	07/11/14	ABANDONED											
MW-10 (SB-10) (40.02576011, -104.8526595)	06/15/12	11.1	<2.0	16.4	11.6	11.1	33.2	<20.0	44.3	NA	NA	NA	NA
	12/13/12	<1.0	<1.0	<1.0	<1.0	<5.0	6.39	<20.0	6.39	NA	NA	NA	NA
	04/12/13	<1.0	<1.0	<1.0	<3.0	NA	NA	NA	NA	101	<0.023	1,330	2,270
	06/21/13	<0.50	<5.0	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA
	09/25/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/24/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	420	0.36	830	2,000
	07/11/14	ABANDONED											
MW-11 (SB-11) (40.02586384, -104.8525052)	06/15/12	<1.0	<1.0	<1.0	<1.0	<5.0	9.1	<20.0	9.1	NA	NA	NA	NA
	12/13/12	<1.0	<1.0	<1.0	<1.0	6.81	20.7	<20.0	27.5	NA	NA	NA	NA
	04/11/13	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	140	<0.023	1.95	978
	06/21/13	<0.50	<5.0	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA
	09/25/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/13	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/24/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	160	<0.10	9.2	1,100
	07/11/14	ABANDONED											

TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY
MOSER 1
API# 05-123-08041
NE1/4 NE1/4 SEC.26 T1N R67W 6PM
LAT./LONG.: 40.025851/-104.853189
WELD COUNTY, COLORADO

Sample Location (Latitude, Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	RRO (mg/L)	TPH (mg/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
COGCC Concentration Levels Table 910-1 (µg/L)		5	560	700	1,400					*		*	*
MW-01R (40.02600013, -104.852709135)	06/26/14	350	<25	<5.0	<15	NA	NA	NA	NA	NA	NA	NA	NA
	09/26/14	93	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/08/14	110	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/15	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
MW-02R (40.025908237, -104.853023913)	06/26/14	460	<50	<10	<30	NA	NA	NA	NA	NA	NA	NA	NA
	09/26/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/08/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/15	160	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
MW-03R (40.025952732, -104.852850789)	06/26/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	09/26/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/08/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/15	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
MW-04R (40.026041027, -104.852853347)	06/26/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	09/26/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/08/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/15	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
MW-05R (40.025976377, -104.852427155)	06/26/14	41	<5.0	20	91	NA	NA	NA	NA	NA	NA	NA	NA
	09/26/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	12/08/14	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/15	<1.0	<5.0	<1.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
MW-06R (40.025824658, -104.852757428)	06/26/14	5,500	<500	<100	2,000	NA	NA	NA	NA	NA	NA	NA	NA
	09/26/14	3,600	<500	210	950	NA	NA	NA	NA	NA	NA	NA	NA
	12/08/14	6,800	<500	340	330	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/15	8,400	<50	600	720	NA	NA	NA	NA	NA	NA	NA	NA

COGCC = Colorado Oil and Gas Conversation Commission

* = <1.25 x background

GRO = Gasoline Range Organics (C6-C10)

DRO = Deisel Range Organics (C10-C28)

RRO = Residual Range Organics (C28-C36)

TPH = Total Petroleum Hydrocarbons

NOP = Not On Monitoring plan

NA = Not Analyzed

µg/L = micrograms per liter

mg/L = milligrams per liter

< = indicates result is less than the stated laboratory reporting limit

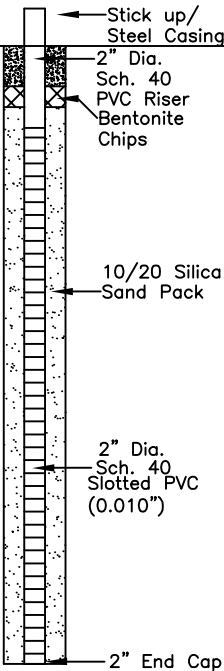
Note: Values presented in bold typeface exceed the COGCC Concentration Levels Table 910-1

ATTACHMENT A

Soil Boring Logs/Well Completion Diagrams

Boring Log/Well Completion Diagram: MW-01R

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed.									H2O @6.5'
5	5-9' sandy SILT - gray and black, loose/soft, well sorted with ~20% fine grained sand, moist to wet, strong HC odor, gray/black staining.	SM	SS	1	100	1013	1,1,2,2	5		
10	9-15' silty CLAY - gray, soft, mod plasticity, well sorted with ~20% silt, moist, strong odor, gray staining.	CL	SS	2	100	1640	2,4,4,5	10		
15	15-16' weathered CLAYSTONE - gray, stiff, slight odor, weathered staining.	CS	SS	3	100	55.2	5,12,15,22	15		
16	BoB @ 16'									
20								20		
25								25		
30										HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

START/COMPLETION DATE: 06/20/2014

SAND PACK INTERVAL (FEET): 1.5-15

PROJECT: MOSER 1

BENTONITE/GROUT INTERVAL (FEET): 1-1.5/concrete 0-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-15

DRILLING COMPANY/EQUIPMENT: SITE SERVICES/CME-55

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 16

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED: 1110/1255

SAMPLE COLLECTION DEPTH (FEET)/TIME: 9-11/1140

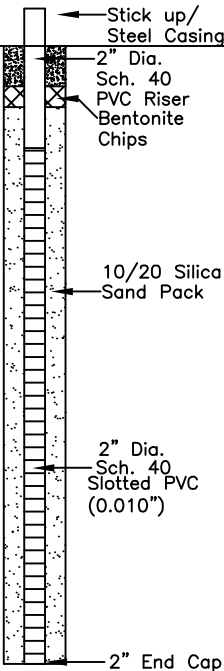


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CONSULTING, INC.

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Boring Log/Well Completion Diagram: MW-02R

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed.									H2O @6'
5	5-10' sandy SILT - brown, loose/soft, well sorted with ~15-20% fine grained sand, moist, N/O, N/S.	SM	SS	1	50	0.9	0,1,1,1	5		
10	10-15' sandy CLAY - light brown, soft to medium stiffness, mod plasticity, well sorted with ~25% fine to medium grained sand, moist, N/O, N/S, increase in stiffness @15'.	CL	SS	2	75	6.3	2,2,4,6	10		
15	15-16' claystone BEDROCK - gray/brown, firm, moist, N/O, N/S.	BR	SS	3	100	2.6	5,9,14,16	15		
16	BoB @ 16'									
20										
25										
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/23/2014

SAND PACK INTERVAL (FEET): 1.5-15

PROJECT: MOSER 1

BENTONITE/GROUT INTERVAL (FEET): 1-1.5/concrete 0-1

LOGGED BY: E. VONDE

WELL SCREEN INTERVAL (FEET): 2.5-15

DRILLING COMPANY/EQUIPMENT: SITE SERVICES/CME-55

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 16

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED: 0805/0925

SAMPLE COLLECTION DEPTH (FEET)/TIME: 9-11/0820

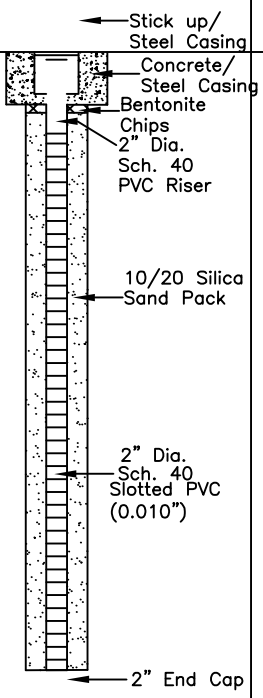


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Boring Log/Well Completion Diagram: MW-03R

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed.									H2O @10'
5	5-10.5' clayey silty SAND - light brown, fine to medium grained, poorly sorted with ~10-15% clay, 15-20% silt, moist, N/O, N/S. Change in color to gray @10', HC staining, strong odor to 17'.	SM	SS	1	50	0.2	1,1,1,1	5		
10	10.5-16.5' sandy CLAY - gray, soft to medium stiffness, high plasticity, poorly sorted, moist, HC staining, slight odor.	CL	SS	2	100	265	1,3,5,8	10		
15	16.5-17' weathered CLAYSTONE - stiff, horizontal fracturing.	CS	SS	3	100	5.7 1.9	3,5, 11,15	15		
20	BoB @ 17'							20		
25								25		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30								30		

START/COMPLETION DATE: 06/20/2014

SAND PACK INTERVAL (FEET): 1.5-15

PROJECT: MOSER 1

BENTONITE/GROUT INTERVAL (FEET): 0.5-1.5/concrete 0-0.5

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-15

DRILLING COMPANY/EQUIPMENT: SITE SERVICES/CME-55

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 17

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED: 1455/1630

SAMPLE COLLECTION DEPTH (FEET)/TIME: 10-12/1510

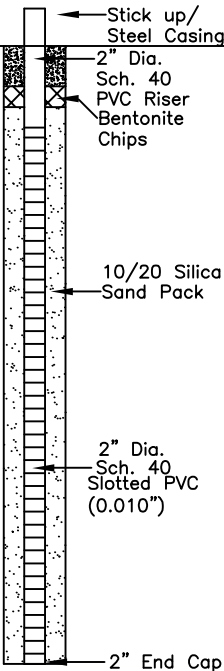


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Boring Log/Well Completion Diagram: MW-04R

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed.									H2O @6.5-7'
5	5-10' sandy SILT - brown, loose/soft, well sorted with ~20% fine grained sand, wet, N/O, N/S.	SM	SS	1	80	3.3	1,1,1,1	5		
10	10-15' sandy CLAY - brown, mod plasticity, well sorted with ~20% fine grained sand, wet, N/O, N/S.	CL	SS	2	100	6.4	1,1,2,3	10		
15	15-16' claystone BEDROCK - gray, firm, moist, N/O, N/S.	CS	SS	3	100	2.2	4,4,5,7	15		
16	BoB @ 16'									
20								20		
25								25		
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/20/2014

SAND PACK INTERVAL (FEET): 1.5-15

PROJECT: MOSER 1

BENTONITE/GROUT INTERVAL (FEET): 1-1.5/concrete 0-1

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 2-15

DRILLING COMPANY/EQUIPMENT: SITE SERVICES/CME-55

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 16

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED: 1315/1445

SAMPLE COLLECTION DEPTH (FEET)/TIME: 9-11/1345

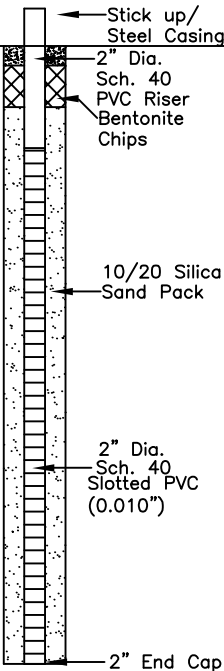
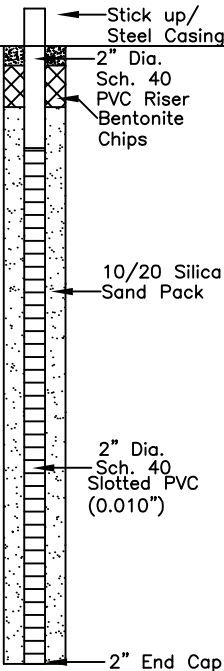


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Boring Log/Well Completion Diagram: MW-05R

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed.									H2O @6.5-7'
5	5-9.5' sandy clayey SILT - light brown, loose, well sorted with ~10% fine grained sand, 15% clay, moist/wet, N/O, N/S.	SM						5		
			SS	1	100	4.7	0,0,1,2			
10	9.5-15' sandy CLAY - light brown, very soft, mod plasticity, well sorted with ~30-35% fine grained sand, wet, N/O, N/S.	CL						10		
			SS	2	100	9.2	0,0,0,0			
15	15-16' silty SAND - green/gray, well sorted medium to fine grained sand, wet, slight HC odor, slight staining.	SM						15		H2O @6.5-7'
			SS	3	100	12.2	6,9,12,12			
	BoB @ 16'									
20								20		
25								25		
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/23/2014

SAND PACK INTERVAL (FEET): 1.5-15

PROJECT: MOSER 1

BENTONITE/GROUT INTERVAL (FEET): 0.5-1.5/concrete 0-1

LOGGED BY: E. VONDE

WELL SCREEN INTERVAL (FEET): 2.5-15

DRILLING COMPANY/EQUIPMENT: SITE SERVICES/CME-55

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 16

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED: 1115/1245

SAMPLE COLLECTION DEPTH (FEET)/TIME: 14-16/1140

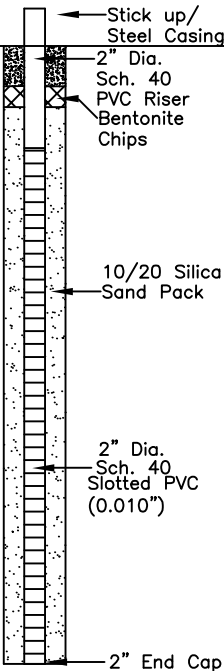


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Boring Log/Well Completion Diagram: MW-06R

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed.									H2O @7'
5	5-9' sandy silty CLAY - gray, very soft to soft, mod plasticity, well sorted with ~10-15% fine grained sand, 15% silt, moist, strong HC odor and staining throughout.	CL	SS	1	100	1850	0,2,3,4	5		
10	@10' increase in sand and silt content, well sorted with 20-25% fine grained sand, 20-25% silt, loose, moist.		SS	2	75	1627	4,3,4,5	10		
15	14-15.5' clayey silty SAND - well sorted fine to medium grained sand with 5% clay, 15% silt, moist, HC staining, strong odor. 15.5-16' claystone BEDROCK - gray/light brown, weathered and stiff, mod moist.									
	BoB @ 16'	SM BR	SS	3	75	65.4 11.3	9,14, 13,14	15		
20								20		
25								25		
30										

HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 06/23/2014

SAND PACK INTERVAL (FEET): 1.5-15

PROJECT: MOSER 1

BENTONITE/GROUT INTERVAL (FEET): 1-1.5/concrete 0-1

LOGGED BY: E. VONDE

WELL SCREEN INTERVAL (FEET): 2.5-15

DRILLING COMPANY/EQUIPMENT: SITE SERVICES/CME-55

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 16

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 2000

TIME STARTED/COMPLETED: 0940/1100

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7/0945



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ATTACHMENT B

Colorado Division of Water Resources – Well Permits

Form No.
GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

MW-01R
EXST

WELL PERMIT NUMBER 295223 - -
DIV. 1 WD2 DES. BASIN MD

APPLICANT

ENCANA OIL & GAS INC
C/O EAGLE ENVIRONMENTAL
4101 INCA STREET
DENVER, CO 80211-

(303) 433-0479

APPROVED WELL LOCATION

WELD COUNTY
NE 1/4 NE 1/4 Section 26
Township 1 N Range 67 W Sixth P.M.

DISTANCES FROM SECTION LINES

1190 Ft. from North Section Line
1174 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-052702, and known as MW-01R.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

NOTICE: This permit has been approved subject to the following change: The UTM coordinate values provided with the permit application were not used and the well location was determined from the PLSS coordinates provided. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106, C.R.S.)

APPROVED
SVJ

State Engineer

Receipt No. 3665917A

DATE ISSUED 08-04-2014

By

EXPIRATION DATE

N/A

Form No.
GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

MW-02R

EXST

WELL PERMIT NUMBER 295224 - -
DIV. 1 WD 2 DES. BASIN MD

APPLICANT

ENCANA OIL & GAS INC
C/O EAGLE ENVIRONMENTAL
4101 INCA STREET
DENVER, CO 80211-

(303) 433-0479

APPROVED WELL LOCATION

WELD COUNTY

NE 1/4 NE 1/4 Section 26
Township 1 N Range 67 W Sixth P.M.

DISTANCES FROM SECTION LINES

1233 Ft. from North Section Line
1266 Ft. from East Section Line

UTM COORDINATES (Meters; Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-052702, and known as MW-02R.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

NOTICE: This permit has been approved subject to the following change: The UTM coordinate values provided with the permit application were not used and the well location was determined from the PLSS coordinates provided. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106, C.R.S.)

APPROVED
SVJ

State Engineer

DATE ISSUED 08-04-2014

By

EXPIRATION DATE

N/A

Receipt No. 3665917B

Form No.
GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

MW-03R

EXST

WELL PERMIT NUMBER 295225 - -
DIV. 1 WD2 DES. BASIN MD

APPLICANT

ENCANA OIL & GAS INC
C/O EAGLE ENVIRONMENTAL
4101 INCA STREET
DENVER, CO 80211-

(303) 433-0479

APPROVED WELL LOCATION

WELD COUNTY
NE 1/4 NE 1/4 Section 26
Township 1 N Range 67 W Sixth P.M.

DISTANCES FROM SECTION LINES

1207 Ft. from North Section Line
1217 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-052702, and known as MW-03R.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

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APPROVED
SVJ

State Engineer

DATE ISSUED 08-04-2014

By

EXPIRATION DATE

N/A

Receipt No. 3665917C

Form No.
GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

MW-04R

EXST

WELL PERMIT NUMBER 295226
DIV. 1 WD 2 DES. BASIN MD

APPLICANT

ENCANA OIL & GAS INC
C/O EAGLE ENVIRONMENTAL
4101 INCA STREET
DENVER, CO 80211-

(303) 433-0479

APPROVED WELL LOCATION

WELD COUNTY

NE 1/4 NE 1/4 Section 26
Township 1 N Range 67 W Sixth P.M.

DISTANCES FROM SECTION LINES

1197 Ft. from North Section Line
1236 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-052702, and known as MW-04R.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
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APPROVED
SVJ

State Engineer

DATE ISSUED 08-04-2014

By EXPIRATION DATE

N/A

Receipt No. 3665917D

Form No.
GWS-25

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

MW-0512

EXST

WELL PERMIT NUMBER 295227 - -
DIV. 1 WD2 DES. BASIN MD

APPLICANT

ENCANA OIL & GAS INC
C/O EAGLE ENVIRONMENTAL
4101 INCA STREET
DENVER, CO 80211-

(303) 433-0479

APPROVED WELL LOCATION

WELD COUNTY

NE 1/4 NE 1/4 Section 26
Township 1 N Range 67 W Sixth P.M.

DISTANCES FROM SECTION LINES

1200 Ft. from North Section Line
1131 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-052702, and known as MW-05R.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
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APPROVED
SVJ

State Engineer

DATE ISSUED 08-04-2014

By

EXPIRATION DATE

N/A

Receipt No. 3665917E

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

MW-06R

EXST

WELL PERMIT NUMBER 295228
DIV. 1 WD 2 DES. BASIN MD

APPLICANT

ENCANA OIL & GAS INC
C/O EAGLE ENVIRONMENTAL
4101 INCA STREET
DENVER, CO 80211-

(303) 433-0479

APPROVED WELL LOCATION

WELD COUNTY

NE 1/4 NE 1/4 Section 26
Township 1 N Range 67 W Sixth P.M.

DISTANCES FROM SECTION LINES

1223 Ft. from North Section Line
1214 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-052702, and known as MW-06R.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
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APPROVED
SVJ

State Engineer

DATE ISSUED 08-04-2014

By

EXPIRATION DATE

N/A

Receipt No. 3665917F

ATTACHMENT C

Laboratory Analytical Reports



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 10, 2014

Date Received : June 24, 2014
Description : Moser-1
Sample ID : MOSER-01-MW-01R-062014 9-11FT
Collected By : Eric Vonde
Collection Date : 06/20/14 11:40

ESC Sample # : L706439-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	1.7	1.2	mg/kg	8021/8015	06/27/14	2500
Toluene	BDL	12.	mg/kg	8021/8015	06/27/14	2500
Ethylbenzene	BDL	1.2	mg/kg	8021/8015	06/27/14	2500
Total Xylene	3.8	3.8	mg/kg	8021/8015	06/27/14	2500
TPH (GC/FID) Low Fraction	780	250	mg/kg	GRO	06/27/14	2500
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.1		% Rec.	8021/8015	06/27/14	2500
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	06/27/14	2500
TPH (GC/FID) High Fraction	380	20.	mg/kg	3546/DRO	06/28/14	5
Surrogate recovery(%)						
o-Terphenyl	68.6		% Rec.	3546/DRO	06/28/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/10/14 14:31 Printed: 07/10/14 14:31



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 10, 2014

Date Received : June 24, 2014
Description : Moser-1
Sample ID : MOSER-01-MW-02R-062014 9-11FT
Collected By : Eric Vonde
Collection Date : 06/23/14 08:20

ESC Sample # : L706439-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/27/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/27/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/27/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/27/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/27/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.2		% Rec.	8021/8015	06/27/14	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	06/27/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/27/14	1
Surrogate recovery(%)						
o-Terphenyl	75.5		% Rec.	3546/DRO	06/27/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/10/14 14:31 Printed: 07/10/14 14:31



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 10, 2014

Date Received : June 24, 2014
Description : Moser-1
Sample ID : MOSER-01-MW-03R-062014 10-12FT
Collected By : Eric Vonde
Collection Date : 06/20/14 15:10

ESC Sample # : L706439-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.025	0.012	mg/kg	8021/8015	06/28/14	25
Toluene	0.12	0.12	mg/kg	8021/8015	06/28/14	25
Ethylbenzene	BDL	0.012	mg/kg	8021/8015	06/28/14	25
Total Xylene	0.23	0.038	mg/kg	8021/8015	06/28/14	25
TPH (GC/FID) Low Fraction	69.	2.5	mg/kg	GRO	06/28/14	25
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.1		% Rec.	8021/8015	06/28/14	25
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	06/28/14	25
TPH (GC/FID) High Fraction	5.5	4.0	mg/kg	3546/DRO	06/27/14	1
Surrogate recovery(%)						
o-Terphenyl	71.4		% Rec.	3546/DRO	06/27/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/10/14 14:31 Printed: 07/10/14 14:31



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 10, 2014

Date Received : June 24, 2014
Description : Moser-1
Sample ID : MOSER-01-MW-04R-062014 9-11FT
Collected By : Eric Vonde
Collection Date : 06/20/14 13:45

ESC Sample # : L706439-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/28/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/28/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/28/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/28/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/28/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.4		% Rec.	8021/8015	06/28/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	06/28/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/27/14	1
Surrogate recovery(%)						
o-Terphenyl	63.7		% Rec.	3546/DRO	06/27/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/10/14 14:31 Printed: 07/10/14 14:31



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 10, 2014

Date Received : June 24, 2014
Description : Moser-1
Sample ID : MOSER-01-MW-05R-062014 14-16FT
Collected By : Eric Vonde
Collection Date : 06/23/14 11:40

ESC Sample # : L706439-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/28/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/28/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/28/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/28/14	5
TPH (GC/FID) Low Fraction	0.55	0.50	mg/kg	GRO	06/28/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.7		% Rec.	8021/8015	06/28/14	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	06/28/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	06/27/14	1
Surrogate recovery(%)						
o-Terphenyl	77.8		% Rec.	3546/DRO	06/27/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 10, 2014

Date Received : June 24, 2014
Description : Moser-1
Sample ID : MOSER-01-MW-06R-062014 5-7FT
Collected By : Eric Vonde
Collection Date : 06/23/14 09:45

ESC Sample # : L706439-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/27/14	1
Chromium, Trivalent	15.	2.0	mg/kg	Calc.	06/27/14	1
ORP	60.		mV	2580 B-2011	06/27/14	1
pH	8.4		su	9045D	06/25/14	1
Sodium Adsorption Ratio	24.			Calc.	06/30/14	1
Specific Conductance	880		umhos/cm	9050AMod	06/26/14	1
Mercury	BDL	0.020	mg/kg	7471	06/26/14	1
Arsenic	4.3	2.0	mg/kg	6010B	06/26/14	1
Barium	230	0.50	mg/kg	6010B	06/26/14	1
Cadmium	BDL	0.50	mg/kg	6010B	06/26/14	1
Chromium	15.	1.0	mg/kg	6010B	06/26/14	1
Copper	10.	2.0	mg/kg	6010B	06/26/14	1
Lead	7.9	0.50	mg/kg	6010B	06/26/14	1
Nickel	8.3	2.0	mg/kg	6010B	06/26/14	1
Selenium	BDL	2.0	mg/kg	6010B	06/26/14	1
Silver	BDL	1.0	mg/kg	6010B	06/26/14	1
Zinc	39.	3.0	mg/kg	6010B	06/26/14	1
Benzene	4.7	1.2	mg/kg	8021/8015	06/28/14	2500
Toluene	BDL	12.	mg/kg	8021/8015	06/28/14	2500
Ethylbenzene	6.2	1.2	mg/kg	8021/8015	06/28/14	2500
Total Xylene	10.	3.8	mg/kg	8021/8015	06/28/14	2500
TPH (GC/FID) Low Fraction	1200	250	mg/kg	GRO	06/28/14	2500
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.2		% Rec.	8021/8015	06/28/14	2500
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/28/14	2500
TPH (GC/FID) High Fraction	530	80.	mg/kg	3546/DRO	06/28/14	20
Surrogate recovery(%)						
o-Terphenyl	48.9		% Rec.	3546/DRO	06/28/14	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.15	0.0060	mg/kg	8270C-SIM	06/29/14	1
Acenaphthene	0.10	0.0060	mg/kg	8270C-SIM	06/29/14	1
Acenaphthylene	0.0083	0.0060	mg/kg	8270C-SIM	06/29/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/29/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/29/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L706439-06 (PH) - 8.4@21.6c



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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 10, 2014

Date Received : June 24, 2014
Description : Moser-1
Sample ID : MOSER-01-MW-06R-062014 5-7FT
Collected By : Eric Vonde
Collection Date : 06/23/14 09:45

ESC Sample # : L706439-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	0.0062	0.0060	mg/kg	8270C-SIM	06/29/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	06/29/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/29/14	1
Chrysene	0.045	0.0060	mg/kg	8270C-SIM	06/29/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/29/14	1
Fluoranthene	0.023	0.0060	mg/kg	8270C-SIM	06/29/14	1
Fluorene	0.36	0.0060	mg/kg	8270C-SIM	06/29/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/29/14	1
Naphthalene	1.6	0.40	mg/kg	8270C-SIM	06/30/14	20
Phenanthrene	0.56	0.0060	mg/kg	8270C-SIM	06/29/14	1
Pyrene	0.052	0.0060	mg/kg	8270C-SIM	06/29/14	1
1-Methylnaphthalene	1.5	0.40	mg/kg	8270C-SIM	06/30/14	20
2-Methylnaphthalene	4.5	0.40	mg/kg	8270C-SIM	06/30/14	20
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	06/29/14	1
Surrogate Recovery						
Nitrobenzene-d5	259.		% Rec.	8270C-SIM	06/30/14	20
2-Fluorobiphenyl	80.5		% Rec.	8270C-SIM	06/29/14	1
p-Terphenyl-d14	101.		% Rec.	8270C-SIM	06/29/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L706439-06 (PH) - 8.4@21.6c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L706439-06	WG729104	SAMP	Nitrobenzene-d5	R2952453	J7
	WG729012	SAMP	o-Terphenyl	R2951045	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
07/10/14 at 14:31:27

TSR Signing Reports: 358
R5 - Desired TAT

Log all BTEX waters as V8260BTEX unless specified otherwise. Enter depths for all samples as part of sample ID. Try not to report benzene as BDL above a 5x dilution.

Sample: L706439-01 Account: ENCANLCO Received: 06/24/14 09:00 Due Date: 07/01/14 00:00 RPT Date: 07/10/14 14:31

Sample: L706439-02 Account: ENCANLCO Received: 06/24/14 09:00 Due Date: 07/01/14 00:00 RPT Date: 07/10/14 14:31

Sample: L706439-03 Account: ENCANLCO Received: 06/24/14 09:00 Due Date: 07/01/14 00:00 RPT Date: 07/10/14 14:31

Sample: L706439-04 Account: ENCANLCO Received: 06/24/14 09:00 Due Date: 07/01/14 00:00 RPT Date: 07/10/14 14:31

Sample: L706439-05 Account: ENCANLCO Received: 06/24/14 09:00 Due Date: 07/01/14 00:00 RPT Date: 07/10/14 14:31

Sample: L706439-06 Account: ENCANLCO Received: 06/24/14 09:00 Due Date: 07/01/14 00:00 RPT Date: 07/10/14 14:31

Company Name/Address:
ENCANLCO-EAGLE

Encana Oil and Gas
3601 Stagecoach Rd.
Longmont, CO 80504

Billing Information:
Encana oil and Gas
Attn: Blake Ford
ENCANLCO-EAGLE

Report to:
B. Ford, Martin Eckert III

Email To:
David.Ford@encana.com, mce3@

Project
Description: **MOSEL-1**

City/State
Collected:

Phone: **970-379-5558**
Fax:

Client Project #

Lab Project #
ENCANLCO/EAGLE

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Date Results Needed

Immediately
Packed on Ice N Y X

Same Day 200%
Next Day 100%
Two Day 50%
Three Day 25%

Email? No X Yes

FAX? No Yes

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX/LRO (2021/2015)	DRO (3546)	PAHs (2270C-Sim)	MEPHs (6010 B and 3060A/7196A)	EL (9050 A MOD)	PH (9045D)	SAR			
MOSEL-01-MW-01R-062014	LEAS	SS	9-11'	6-20-14	1140	2	X	X								-01
MOSEL-01-MW-02R-062314	LEAS	SS	9-11'	6-23-14	0820	2	X	X								-02
MOSEL-01-MW-03R-062014	LEAS	SS	10-12'	6-20-14	1510	2	X	X								-03
MOSEL-01-MW-04R-062014	LEAS	SS	9-11'	6-20-14	1345	2	X	X								-04
MOSEL-01-MW-05R-062314	LEAS	SS	14-16'	6-23-14	1140	2	X	X								-05
MOSEL-01-MW-06R-062314	LEAS	SS	5-7'	6-23-14	0945	4	X	X	X	X	X	X	X			-06

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Flow _____ Other _____

Remarks: **PLEASE INCLUDE DEPTH ON LAB REPORT**

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☐ UPS

☐ FedEx ☐ Courier ☐ _____

Hold #

Condition: (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

3.0 14 Yoz

COC Seal Intact: Y N NA

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 6-24-14 0900

pH Checked:

NCF:

Chain of Custody Page ____ of ____

ESC
L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

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L# **L706439**

B070

Acctnura: **ENCANLCO**
Template: **EAGLE**
Prelogin:
TSR:
Cooler:
Shipped Via:

Rem./Contaminant Sample # (lab only)

59901129 9199

SWS



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Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

Report Summary

Thursday July 03, 2014

Report Number: L707527

Samples Received: 06/28/14

Client Project:

Description: MOSER-1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 03, 2014

Date Received : June 28, 2014
Description : MOSER-1
Sample ID : MOSER-1-MW-01R-062614
Collected By : Eric Vonde
Collection Date : 06/26/14 10:46

ESC Sample # : L707527-01

Site ID : MOSER-1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	350	5.0	ug/l	8260B	07/02/14	5
Toluene	BDL	25.	ug/l	8260B	07/02/14	5
Ethylbenzene	BDL	5.0	ug/l	8260B	07/02/14	5
Total Xylenes	BDL	15.	ug/l	8260B	07/02/14	5
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	07/02/14	5
Dibromofluoromethane	119.		% Rec.	8260B	07/02/14	5
a,a,a-Trifluorotoluene	96.4		% Rec.	8260B	07/02/14	5
4-Bromofluorobenzene	111.		% Rec.	8260B	07/02/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 03, 2014

Date Received : June 28, 2014
Description : MOSER-1
Sample ID : MOSER-1-MW-02R-062614
Collected By : Eric Vonde
Collection Date : 06/26/14 11:32

ESC Sample # : L707527-02

Site ID : MOSER-1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	460	10.	ug/l	8260B	06/30/14	10
Toluene	BDL	50.	ug/l	8260B	06/30/14	10
Ethylbenzene	BDL	10.	ug/l	8260B	06/30/14	10
Total Xylenes	BDL	30.	ug/l	8260B	06/30/14	10
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	06/30/14	10
Dibromofluoromethane	97.8		% Rec.	8260B	06/30/14	10
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	06/30/14	10
4-Bromofluorobenzene	100.		% Rec.	8260B	06/30/14	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 03, 2014

Date Received : June 28, 2014
Description : MOSER-1
Sample ID : MOSER-1-MW-03R-062614
Collected By : Eric Vonde
Collection Date : 06/26/14 12:36

ESC Sample # : L707527-03

Site ID : MOSER-1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/02/14	1
Toluene	BDL	5.0	ug/l	8260B	07/02/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/02/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/02/14	1
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	07/02/14	1
Dibromofluoromethane	116.		% Rec.	8260B	07/02/14	1
a,a,a-Trifluorotoluene	97.2		% Rec.	8260B	07/02/14	1
4-Bromofluorobenzene	115.		% Rec.	8260B	07/02/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 03, 2014

Date Received : June 28, 2014
Description : MOSER-1
Sample ID : MOSER-1-MW-04R-062614
Collected By : Eric Vonde
Collection Date : 06/26/14 11:12

ESC Sample # : L707527-04

Site ID : MOSER-1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	06/30/14	1
Toluene	BDL	5.0	ug/l	8260B	06/30/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	06/30/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	06/30/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	06/30/14	1
Dibromofluoromethane	101.		% Rec.	8260B	06/30/14	1
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	06/30/14	1
4-Bromofluorobenzene	97.0		% Rec.	8260B	06/30/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 03, 2014

Date Received : June 28, 2014
Description : MOSER-1
Sample ID : MOSER-1-MW-05R-062614
Collected By : Eric Vonde
Collection Date : 06/26/14 12:13

ESC Sample # : L707527-05

Site ID : MOSER-1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	41.	1.0	ug/l	8260B	06/30/14	1
Toluene	BDL	5.0	ug/l	8260B	06/30/14	1
Ethylbenzene	20.	1.0	ug/l	8260B	06/30/14	1
Total Xylenes	91.	3.0	ug/l	8260B	06/30/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	06/30/14	1
Dibromofluoromethane	101.		% Rec.	8260B	06/30/14	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	06/30/14	1
4-Bromofluorobenzene	100.		% Rec.	8260B	06/30/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

July 03, 2014

Date Received : June 28, 2014
Description : MOSER-1
Sample ID : MOSER-1-MW-06R-062614
Collected By : Eric Vonde
Collection Date : 06/26/14 11:51

ESC Sample # : L707527-06

Site ID : MOSER-1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	5500	100	ug/l	8260B	07/02/14	100
Toluene	BDL	500	ug/l	8260B	07/02/14	100
Ethylbenzene	BDL	100	ug/l	8260B	07/02/14	100
Total Xylenes	2000	300	ug/l	8260B	07/02/14	100
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	07/02/14	100
Dibromofluoromethane	118.		% Rec.	8260B	07/02/14	100
a,a,a-Trifluorotoluene	98.7		% Rec.	8260B	07/02/14	100
4-Bromofluorobenzene	99.6		% Rec.	8260B	07/02/14	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/02/14 19:00 Revised: 07/03/14 17:26

Company Name/Address

ENCANLCO-EAGLEEncana Oil and Gas
3601 Stagecoach Rd.
Longmont, CO 80504

Alternate Billing

Encana Oil and Gas

Attn: Blake Ford
Longmont CO 80504

Report to: B. Ford, Martin Eckert III

enviro.com

Analysis/Container/Preservative

Prepared by:

**ENVIRONMENTAL
Science corp**12065 Lebanon Road
Mt. Juliet TN 37122Phone (615)758-5858
Phone (800) 767-5859
FAX (615)758-5859Project Description: ~~Bearden 0-6-6~~ Moser-1

ENCANLCO-EAGLE

PHONE: 970-379-5558

Client Project No.

Lab Project #

FAX:

Collected by:

Site/Facility ID# ~~Bearden 0-6-6~~
Moser-1

P.O.#

Collected by (signature):

Rush? (Lab MUST be Notified)

____ Same Day.....200%

____ Next Day.....100%

____ Two Day.....50%

Date Results Needed

No

Email? ____ No ☒ Yes

FAX? ____ No ____ Yes

of

Packed on Ice N ☒ Y ☒ X

Cntrs

BTEX (0260B)

CoCode (lab use only)

ENCANLCO-EAGLE
Template/Prelogin

Shipped Via: Denver Service Center

Remarks/contaminant

Sample # (lab only)

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs														
Moser-1-MW-QR-062614	GRAB	GW	N/A	6-26-14	1046	2	X													1207527-01
Moser-1-MW-QR-062614					1132	2	X													02
Moser-1-MW-QR-062614					1236	2	X													03
Moser-1-MW-QR-062614					1112	2	X													04
Moser-1-MW-QR-062614					1213	2	X													05
Moser-1-MW-QR-062614					1151	2	X													06

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____

Remarks:

6089 7165 9941

pH _____ Temp _____

Flow _____ Other _____

Relinquisher by (Signature)

Date:

Time:

Received by (Signature)

Samples returned via: FedEx ☒ UPS ☒ Other _____

Condition

(lab use only)

Relinquisher by (Signature)

Date:

Time:

Received by (Signature)

Temp:

Bottles Received:

Relinquisher by (Signature)

Date:

Time:

Received for lab by (Signature)

Date:

Time:

pH Checked:

NCF:



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Est. 1970

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

Report Summary

Friday October 03, 2014

Report Number: L724404


Samples Received: 09/27/14

Client Project:

Description: Moser 1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

October 03, 2014

Date Received : September 27, 2014
Description : Moser 1
Sample ID : MOSER 1-MW-01R-042614
Collected By : Eric Vonde
Collection Date : 09/26/14 13:11

ESC Sample # : L724404-01

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	93.	1.0	ug/l	8260B	10/03/14	1
Toluene	BDL	5.0	ug/l	8260B	10/03/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	10/03/14	1
Surrogate Recovery						
Toluene-d8	98.2		% Rec.	8260B	10/03/14	1
Dibromofluoromethane	89.8		% Rec.	8260B	10/03/14	1
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	10/03/14	1
4-Bromofluorobenzene	95.0		% Rec.	8260B	10/03/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

October 03, 2014

Date Received : September 27, 2014
Description : Moser 1
Sample ID : MOSER 1-MW-02R-042614
Collected By : Eric Vonde
Collection Date : 09/26/14 13:28

ESC Sample # : L724404-02

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	10/03/14	1
Toluene	BDL	5.0	ug/l	8260B	10/03/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	10/03/14	1
Surrogate Recovery						
Toluene-d8	95.3		% Rec.	8260B	10/03/14	1
Dibromofluoromethane	86.3		% Rec.	8260B	10/03/14	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	10/03/14	1
4-Bromofluorobenzene	98.3		% Rec.	8260B	10/03/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

October 03, 2014

Date Received : September 27, 2014
Description : Moser 1
Sample ID : MOSER 1-MW-03R-042614
Collected By : Eric Vonde
Collection Date : 09/26/14 12:30

ESC Sample # : L724404-03

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	09/28/14	1
Toluene	BDL	5.0	ug/l	8260B	09/28/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	09/28/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	09/28/14	1
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	09/28/14	1
Dibromofluoromethane	99.6		% Rec.	8260B	09/28/14	1
a,a,a-Trifluorotoluene	111.		% Rec.	8260B	09/28/14	1
4-Bromofluorobenzene	103.		% Rec.	8260B	09/28/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

October 03, 2014

Date Received : September 27, 2014
Description : Moser 1
Sample ID : MOSER 1-MW-04R-042614
Collected By : Eric Vonde
Collection Date : 09/26/14 12:09

ESC Sample # : L724404-04

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	09/28/14	1
Toluene	BDL	5.0	ug/l	8260B	09/28/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	09/28/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	09/28/14	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	09/28/14	1
Dibromofluoromethane	99.8		% Rec.	8260B	09/28/14	1
a,a,a-Trifluorotoluene	109.		% Rec.	8260B	09/28/14	1
4-Bromofluorobenzene	103.		% Rec.	8260B	09/28/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

October 03, 2014

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

Date Received : September 27, 2014
Description : Moser 1
Sample ID : MOSER 1-MW-05R-042614
Collected By : Eric Vonde
Collection Date : 09/26/14 12:48

ESC Sample # : L7244404-05

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	10/02/14	1
Toluene	BDL	5.0	ug/l	8260B	10/02/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/02/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	10/02/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	10/02/14	1
Dibromofluoromethane	92.0		% Rec.	8260B	10/02/14	1
a,a,a-Trifluorotoluene	109.		% Rec.	8260B	10/02/14	1
4-Bromofluorobenzene	95.4		% Rec.	8260B	10/02/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

October 03, 2014

Date Received : September 27, 2014
Description : Moser 1
Sample ID : MOSER 1-MW-06R-042614
Collected By : Eric Vonde
Collection Date : 09/26/14 13:51

ESC Sample # : L724404-06

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	3600	100	ug/l	8260B	10/02/14	100
Toluene	BDL	500	ug/l	8260B	10/02/14	100
Ethylbenzene	210	100	ug/l	8260B	10/02/14	100
Total Xylenes	950	300	ug/l	8260B	10/02/14	100
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	10/02/14	100
Dibromofluoromethane	92.9		% Rec.	8260B	10/02/14	100
a,a,a-Trifluorotoluene	109.		% Rec.	8260B	10/02/14	100
4-Bromofluorobenzene	96.9		% Rec.	8260B	10/02/14	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

Report Summary

Monday December 15, 2014

Report Number: L737745


Samples Received: 12/09/14

Client Project:

Description: Moser 1

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Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Est. 1970

REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

December 15, 2014

Date Received : December 09, 2014
Description : Moser 1
Sample ID : MOSER1-MW-01R-120814
Collected By : Andrew Newberry
Collection Date : 12/08/14 14:01

ESC Sample # : L737745-01

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	110	1.0	ug/l	8260B	12/11/14	1
Toluene	BDL	5.0	ug/l	8260B	12/11/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/11/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/11/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	12/11/14	1
Dibromofluoromethane	96.7		% Rec.	8260B	12/11/14	1
a,a,a-Trifluorotoluene	100.		% Rec.	8260B	12/11/14	1
4-Bromofluorobenzene	104.		% Rec.	8260B	12/11/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

December 15, 2014

Date Received : December 09, 2014
Description : Moser 1
Sample ID : MOSER1-MW-02R-120814
Collected By : Andrew Newberry
Collection Date : 12/08/14 13:34

ESC Sample # : L737745-02

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/11/14	1
Toluene	BDL	5.0	ug/l	8260B	12/11/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/11/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/11/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	12/11/14	1
Dibromofluoromethane	98.0		% Rec.	8260B	12/11/14	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	12/11/14	1
4-Bromofluorobenzene	99.2		% Rec.	8260B	12/11/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

December 15, 2014

Date Received : December 09, 2014
Description : Moser 1
Sample ID : MOSER1-MW-03R-120814
Collected By : Andrew Newberry
Collection Date : 12/08/14 13:06

ESC Sample # : L737745-03

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/11/14	1
Toluene	BDL	5.0	ug/l	8260B	12/11/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/11/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/11/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	12/11/14	1
Dibromofluoromethane	96.3		% Rec.	8260B	12/11/14	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	12/11/14	1
4-Bromofluorobenzene	96.0		% Rec.	8260B	12/11/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

December 15, 2014

Date Received : December 09, 2014
Description : Moser 1
Sample ID : MOSER1-MW-04R-120814
Collected By : Andrew Newberry
Collection Date : 12/08/14 12:46

ESC Sample # : L737745-04

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/11/14	1
Toluene	BDL	5.0	ug/l	8260B	12/11/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/11/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/11/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	12/11/14	1
Dibromofluoromethane	96.2		% Rec.	8260B	12/11/14	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	12/11/14	1
4-Bromofluorobenzene	93.8		% Rec.	8260B	12/11/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

December 15, 2014

Date Received : December 09, 2014
Description : Moser 1
Sample ID : MOSER1-MW-05R-120814
Collected By : Andrew Newberry
Collection Date : 12/08/14 12:21

ESC Sample # : L737745-05

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/11/14	1
Toluene	BDL	5.0	ug/l	8260B	12/11/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/11/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/11/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	12/11/14	1
Dibromofluoromethane	99.8		% Rec.	8260B	12/11/14	1
a,a,a-Trifluorotoluene	99.3		% Rec.	8260B	12/11/14	1
4-Bromofluorobenzene	98.0		% Rec.	8260B	12/11/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

December 15, 2014

Date Received : December 09, 2014
Description : Moser 1
Sample ID : MOSER1-MW-06R-120814
Collected By : Andrew Newberry
Collection Date : 12/08/14 14:26

ESC Sample # : L737745-06

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	6800	100	ug/l	8260B	12/11/14	100
Toluene	BDL	500	ug/l	8260B	12/11/14	100
Ethylbenzene	340	100	ug/l	8260B	12/11/14	100
Total Xylenes	330	300	ug/l	8260B	12/11/14	100
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	12/11/14	100
Dibromofluoromethane	94.7		% Rec.	8260B	12/11/14	100
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	12/11/14	100
4-Bromofluorobenzene	97.0		% Rec.	8260B	12/11/14	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 12/15/14 08:55 Printed: 12/15/14 08:55

Summary of Remarks For Samples Printed
12/15/14 at 08:55:43

TSR Signing Reports: 358
R5 - Desired TAT

Log all BTEX waters as V8260BTEX unless specified otherwise. Enter depths for all samples as part of sample ID. Try not to report benzene as BDL above a 5x dilution.

Sample: L737745-01 Account: ENCANLCO Received: 12/09/14 09:00 Due Date: 12/16/14 00:00 RPT Date: 12/15/14 08:55

Sample: L737745-02 Account: ENCANLCO Received: 12/09/14 09:00 Due Date: 12/16/14 00:00 RPT Date: 12/15/14 08:55

Sample: L737745-03 Account: ENCANLCO Received: 12/09/14 09:00 Due Date: 12/16/14 00:00 RPT Date: 12/15/14 08:55

Sample: L737745-04 Account: ENCANLCO Received: 12/09/14 09:00 Due Date: 12/16/14 00:00 RPT Date: 12/15/14 08:55

Sample: L737745-05 Account: ENCANLCO Received: 12/09/14 09:00 Due Date: 12/16/14 00:00 RPT Date: 12/15/14 08:55

Sample: L737745-06 Account: ENCANLCO Received: 12/09/14 09:00 Due Date: 12/16/14 00:00 RPT Date: 12/15/14 08:55



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Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

Report Summary

Sunday March 22, 2015

Report Number: L752795


Samples Received: 03/11/15

Client Project:

Description: Moser 1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

March 22, 2015

Date Received : March 11, 2015
Description : Moser 1
Sample ID : MOSER1-MW-01R-030915
Collected By : Alex Romansby
Collection Date : 03/09/15 15:54

ESC Sample # : L752795-01

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	03/17/15	1
Toluene	BDL	5.0	ug/l	8260B	03/17/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/17/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	03/17/15	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	03/17/15	1
Dibromofluoromethane	108.		% Rec.	8260B	03/17/15	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	03/17/15	1
4-Bromofluorobenzene	105.		% Rec.	8260B	03/17/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

March 22, 2015

Date Received : March 11, 2015
Description : Moser 1
Sample ID : MOSER1-MW-02R-030915
Collected By : Alex Romansby
Collection Date : 03/09/15 15:14

ESC Sample # : L752795-02

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	160	1.0	ug/l	8260B	03/17/15	1
Toluene	BDL	5.0	ug/l	8260B	03/17/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/17/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	03/17/15	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	03/17/15	1
Dibromofluoromethane	109.		% Rec.	8260B	03/17/15	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	03/17/15	1
4-Bromofluorobenzene	105.		% Rec.	8260B	03/17/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

March 22, 2015

Date Received : March 11, 2015
Description : Moser 1
Sample ID : MOSER1-MW-03R-030915
Collected By : Alex Romansby
Collection Date : 03/09/15 14:54

ESC Sample # : L752795-03

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	03/17/15	1
Toluene	BDL	5.0	ug/l	8260B	03/17/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/17/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	03/17/15	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	03/17/15	1
Dibromofluoromethane	108.		% Rec.	8260B	03/17/15	1
a,a,a-Trifluorotoluene	98.3		% Rec.	8260B	03/17/15	1
4-Bromofluorobenzene	104.		% Rec.	8260B	03/17/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

March 22, 2015

Date Received : March 11, 2015
Description : Moser 1
Sample ID : MOSER1-MW-04R-030915
Collected By : Alex Romansby
Collection Date : 03/09/15 15:34

ESC Sample # : L752795-04

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	03/17/15	1
Toluene	BDL	5.0	ug/l	8260B	03/17/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/17/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	03/17/15	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	03/17/15	1
Dibromofluoromethane	111.		% Rec.	8260B	03/17/15	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	03/17/15	1
4-Bromofluorobenzene	102.		% Rec.	8260B	03/17/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

March 22, 2015

Date Received : March 11, 2015
Description : Moser 1
Sample ID : MOSER1-MW-05R-030915
Collected By : Alex Romansby
Collection Date : 03/09/15 14:31

ESC Sample # : L752795-05

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	03/17/15	1
Toluene	BDL	5.0	ug/l	8260B	03/17/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/17/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	03/17/15	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	03/17/15	1
Dibromofluoromethane	109.		% Rec.	8260B	03/17/15	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	03/17/15	1
4-Bromofluorobenzene	104.		% Rec.	8260B	03/17/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford / Martin Eckert III
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

March 22, 2015

Date Received : March 11, 2015
Description : Moser 1
Sample ID : MOSER1-MW-06R-030915
Collected By : Alex Romansby
Collection Date : 03/09/15 16:14

ESC Sample # : L752795-06

Site ID : MOSER 1

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	8400	200	ug/l	8260B	03/20/15	200
Toluene	BDL	50.	ug/l	8260B	03/20/15	10
Ethylbenzene	600	10.	ug/l	8260B	03/20/15	10
Total Xylenes	720	30.	ug/l	8260B	03/20/15	10
Surrogate Recovery						
Toluene-d8	98.0		% Rec.	8260B	03/20/15	1
Dibromofluoromethane	85.8		% Rec.	8260B	03/20/15	1
a,a,a-Trifluorotoluene	99.7		% Rec.	8260B	03/20/15	1
4-Bromofluorobenzene	109.		% Rec.	8260B	03/20/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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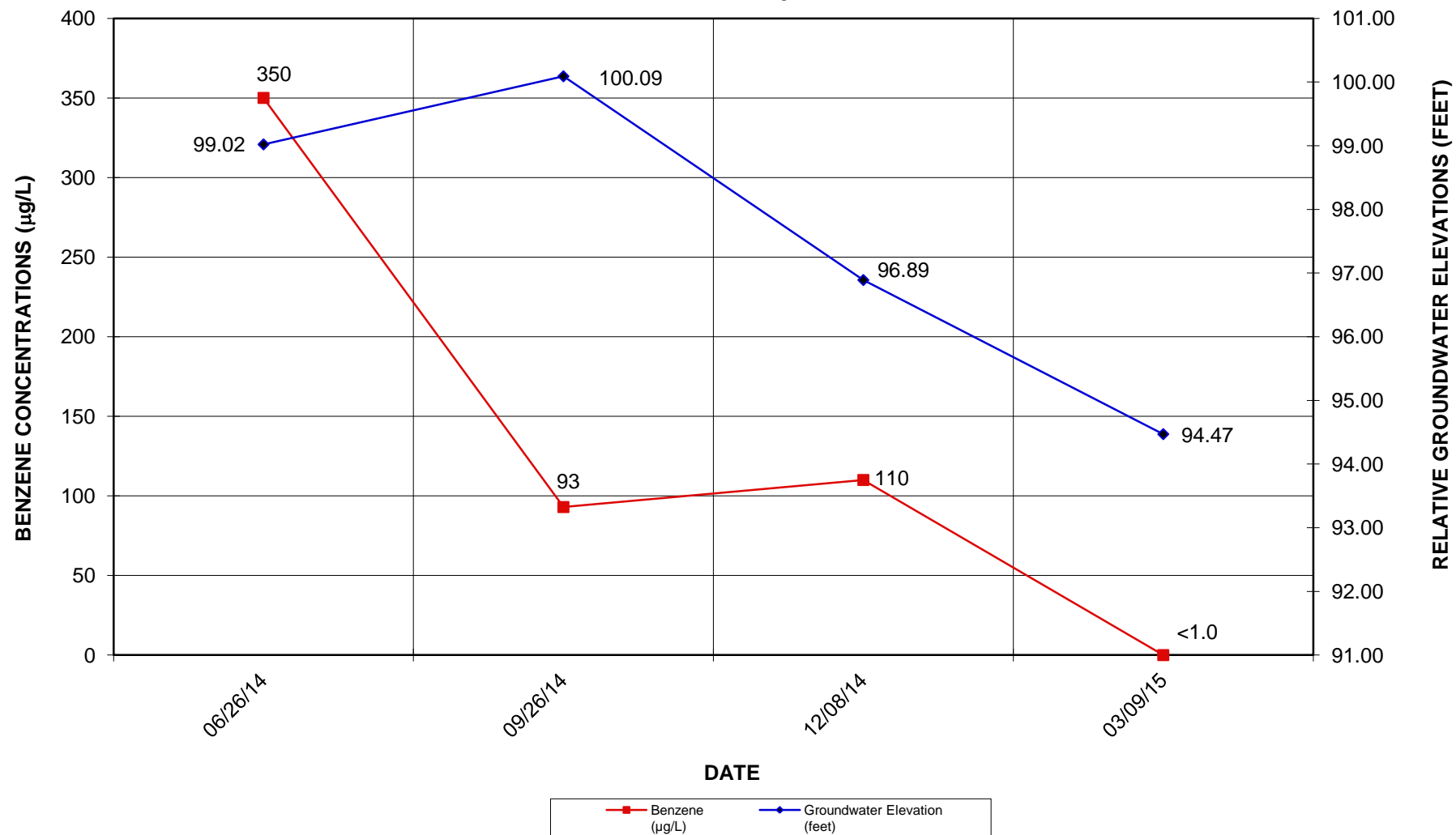
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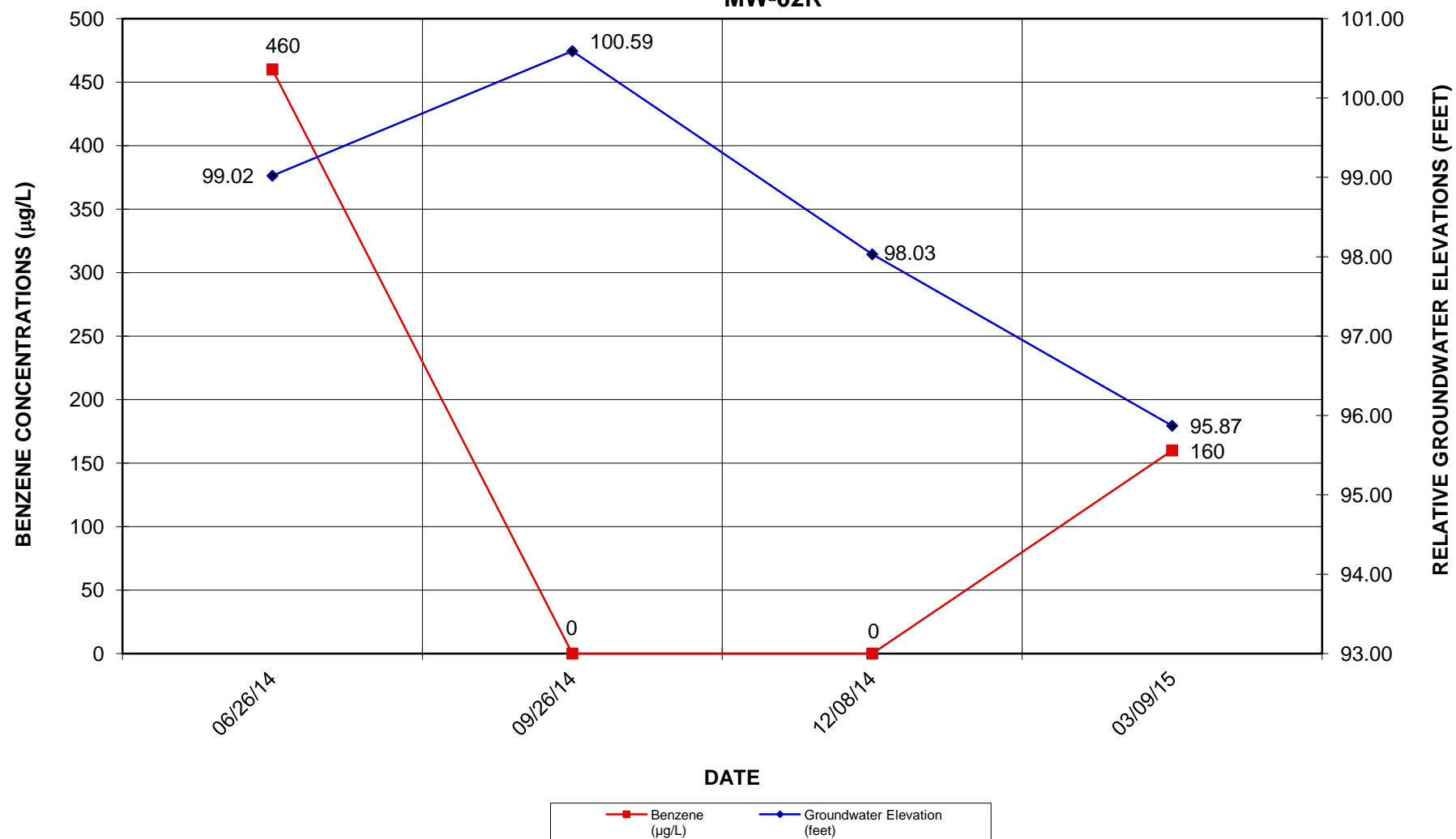
ATTACHMENT D

Hydrographs

**DISSOLVED BENZENE IN GROUNDWATER ($\mu\text{g/L}$) VS.
RELATIVE GROUNDWATER ELEVATIONS (FT.) OVER TIME
MW-01R**

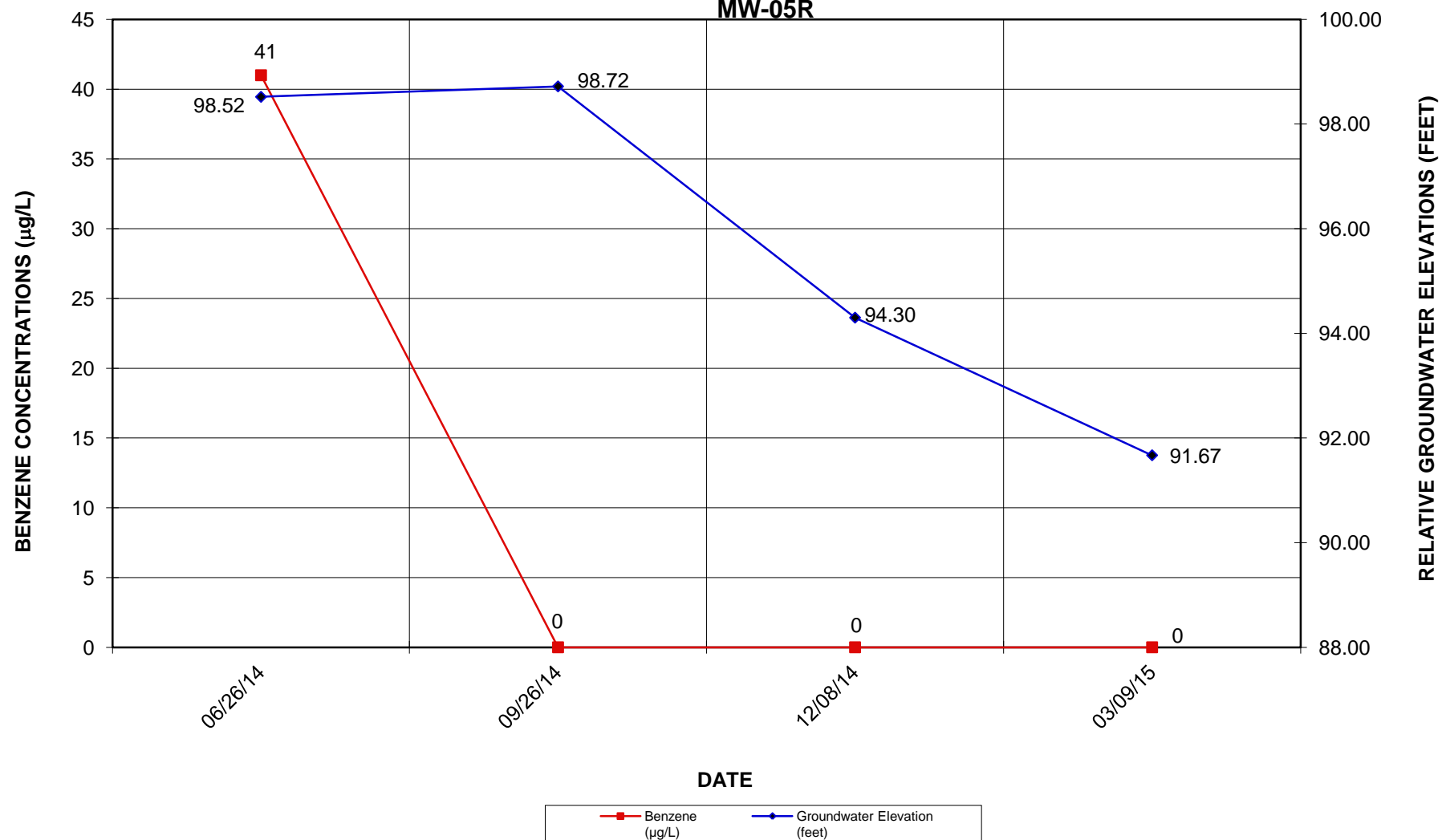


**DISSOLVED BENZENE IN GROUNDWATER (µg/L) VS.
RELATIVE GROUNDWATER ELEVATIONS (FT.) OVER TIME
MW-02R**



DISSOLVED BENZENE IN GROUNDWATER (µg/L) VS.
RELATIVE GROUNDWATER ELEVATIONS (FT.) OVER TIME

MW-05R



**DISSOLVED BENZENE IN GROUNDWATER (µg/L) VS.
RELATIVE GROUNDWATER ELEVATIONS (FT.) OVER TIME**

MW-06R

