

March 25, 2014

Mr. Blake Ford  
Environmental Field Coordinator  
Encana Oil and Gas (USA) Inc.  
3601 Stagecoach Road  
Longmont, CO 80504

**RE: Remediation Activity Annual Report  
Encana Oil & Gas (USA) Inc.  
Sprague 13-9 Tank Battery  
API 05-123-23977  
COGCC Remediation #  
Weld County, Colorado**

Dear Mr. Ford:

Rule Engineering, LLC (Rule), has prepared this report on behalf of Encana Oil and Gas (USA), Inc. (Encana), to summarize activities conducted in 2013 to address petroleum hydrocarbon impacts at the Sprague 13-9 Tank Battery (Site). The Site is located approximately 0.5 miles northeast of the intersection of County Road (CR) 22 and CR 17, Weld County, Colorado (Figure 1).

## **BACKGROUND**

In early September 2013, flood waters in Weld County caused the produced water tank to be displaced. While resetting the tank, hydrocarbon impacts were identified in soils below the tank. The produced water tank is the westernmost tank in the tank battery. A groundwater sample was collected prior to resetting the tank and lab results for benzene were 83 µg/L above the COGCC Table 910 allowable limits of 5 µg/L. Based on the results of the groundwater sample, an assessment was initiated to define the hydrocarbon plume through the collection of soil samples and installation of monitoring wells to characterize groundwater. A Site Map is included as Figure 2. Quarterly groundwater monitoring has been conducted at the Site since installation of the monitoring wells.

## **SITE ASSESSMENT**

Four monitoring wells and one AS well were installed on November 8, 2013. The two-inch PVC wells were installed using a truck mounted drill rig and hollow-stem-augers. The surface was completed with a riser and finished with a concrete cap. All four monitoring wells were installed to 15 feet bgs. An air sparging (AS) well was also installed near the produced water tank to provide for remediation if necessary. The AS well was installed to 15 feet bgs and completed

two feet of well screen. Bore logs and well completion summaries are included as Attachment A.

Soil samples were collected from each well location at or near the water table and analyzed for BTEX/TPH. The soil sample collected from the AS well location was analyzed for the full Table 910 list. All samples were reported below the Table 910 allowable limits with the exception of Arsenic. The soil analytical results are included in Table 1. No hydrocarbon staining or odor was observed while drilling. A Soil Analytical Figure is included as Figure 3.

## **2013 MONITORING RESULTS**

Quarterly groundwater monitoring was conducted on November 13, 2013. Groundwater samples were obtained from each of the four monitoring wells at the Site. Prior to sampling, groundwater depth is measured in each well and temperature, specific conductivity, salinity, dissolved oxygen (DO), pH, and ORP parameters are taken with a field instrument and recorded. The groundwater measurements and field parameters are summarized in Table 2. Groundwater ranged from a depth of 5.02 feet bgs in MW-2 to 5.43 feet bgs in MW-3. Groundwater flow is to the northwest. A Groundwater Elevation Map is included as Figure 4.

Groundwater samples were collected from each well and analyzed quarterly for BTEX and annually for chloride, nitrate, sulfate and total dissolved solids. Groundwater BTEX analytical data is summarized in Table 3A and groundwater inorganic data is summarized in Table 3B. Groundwater BTEX analytical data for the fourth quarter monitoring event is shown on Figure 5. Groundwater inorganic data is included as Figure 6. Laboratory reports are included as Attachment B.

For fourth quarter 2013, all samples were below the Table 910 levels for all BTEX constituents, with the exception of benzene in MW-4 at 65 µg/L. Inorganic parameters during 2013 were all below the Table 910 allowable limits.

## **CONCLUSION**

Based on the assessment results, soils at this site are below Table 910 limits with the exception of Arsenic, background samples will be collected for this parameter. After one quarter of groundwater monitoring, only benzene concentrations in MW-4 were above the Table 910 allowable limits. Per Water Quality Regulation 41 groundwater monitoring will continue until four quarters of groundwater samples below the Table 910 levels have been obtained in order to request closure. If you have any questions please call me or Russell Knight at (303) 431-8500.

March 25, 2014  
Encana Sprague 13-9 - 2013 Annual Report  
Page 3 of 3

Sincerely,  
Rule Engineering, LLC

*Tracy Loftus*

Tracy Loftus  
Project Scientist

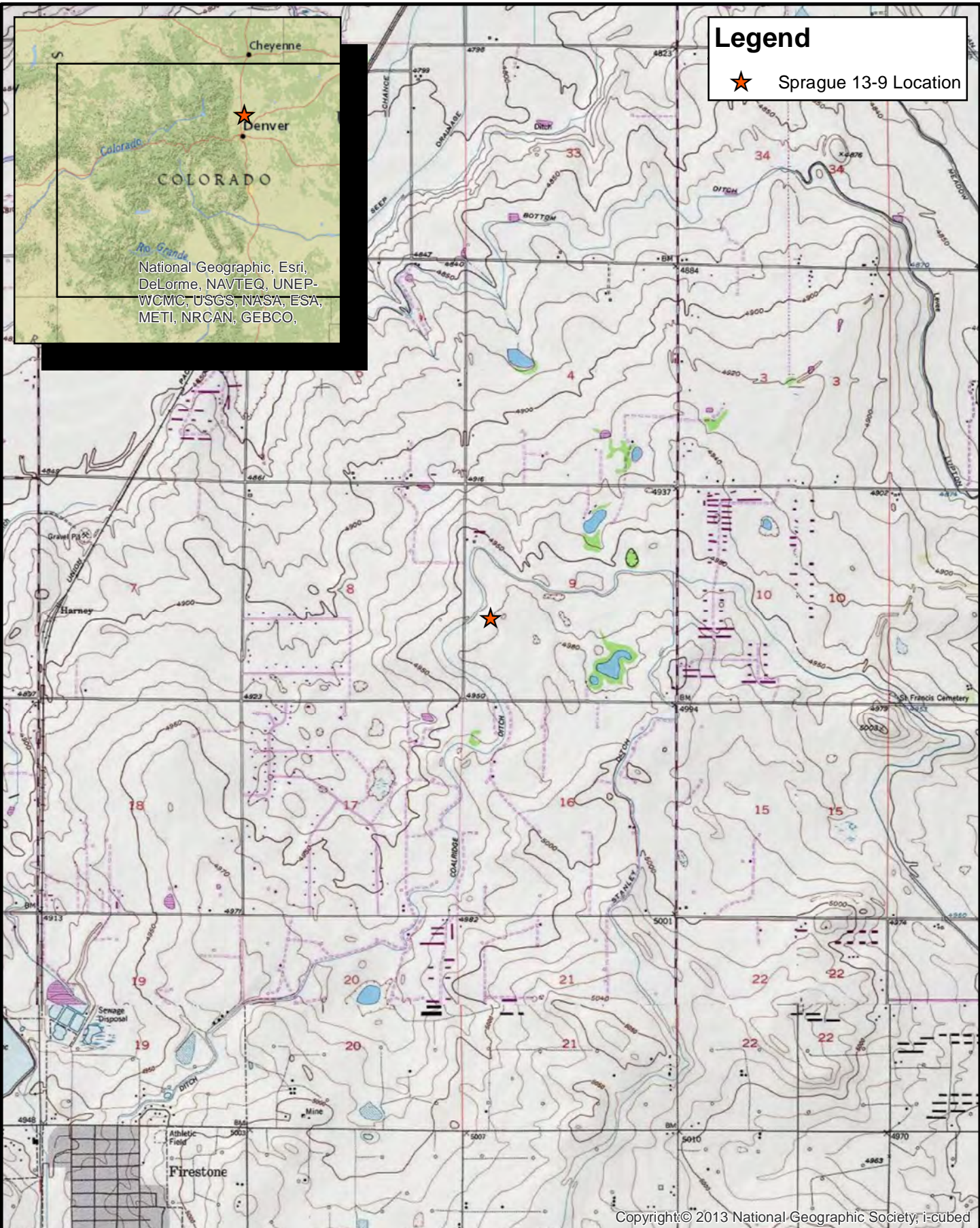
cc: Russell Knight - Rule

## FIGURES



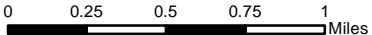
**Legend**

★ Sprague 13-9 Location



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**Rule Engineering, LLC**  
Solutions to Regulations for Industry



Location: Sprague 13-9  
QtrQtr, NWSW Sec, 9 Twp, 2S Rng, 67W  
Site Map

Date: 10/16/2013

File: Sprague 13-9 Topo Site Map

Figure: 1



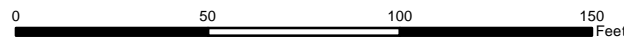
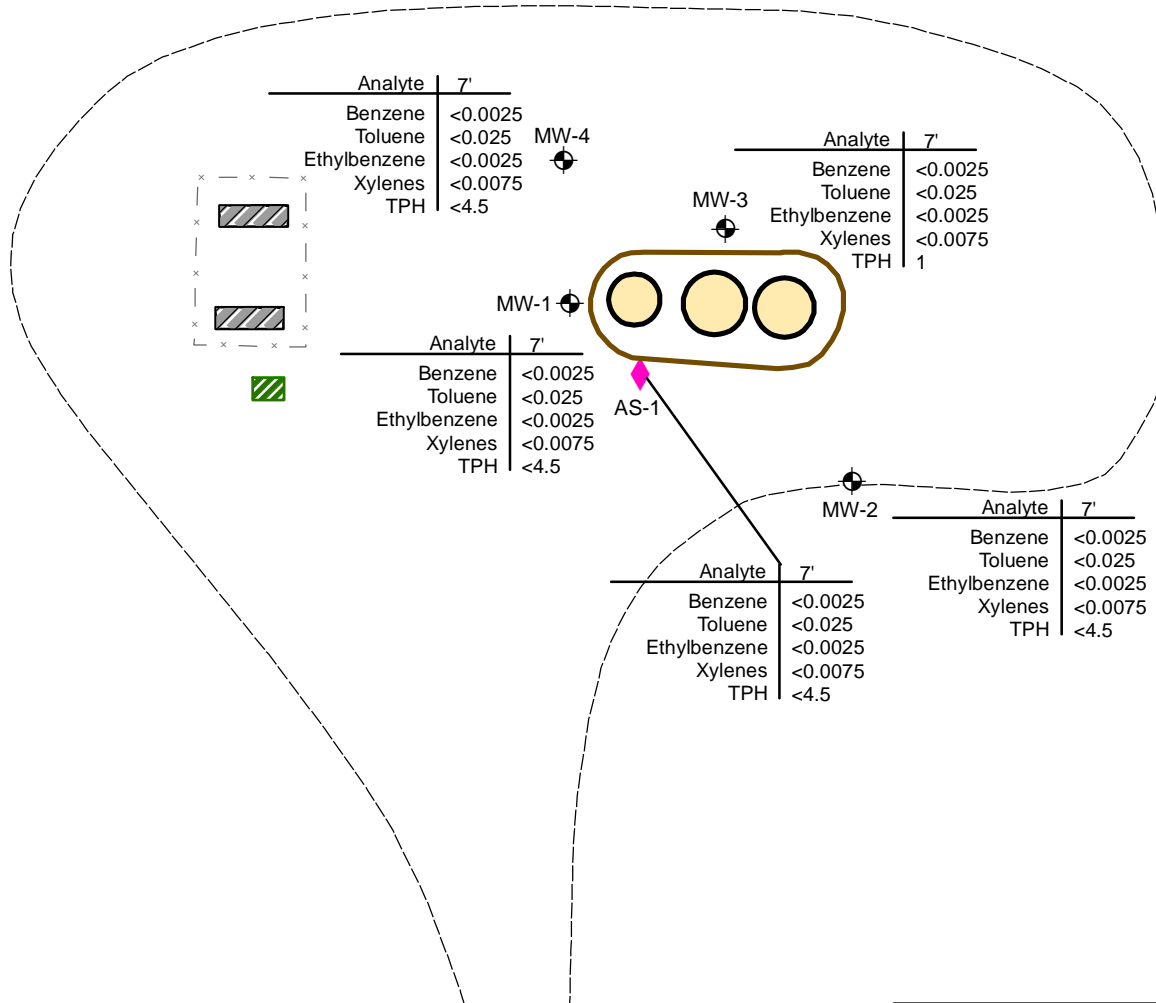
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

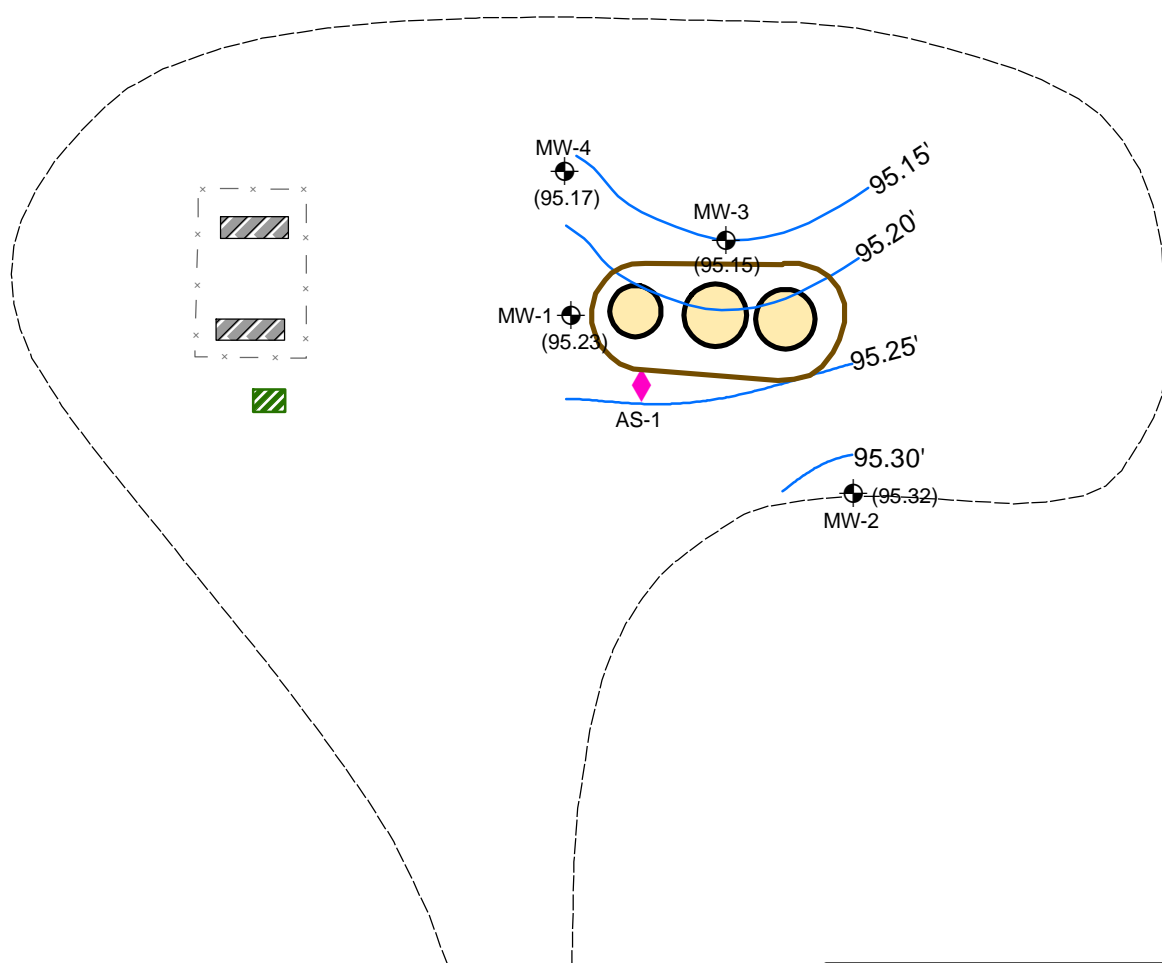
- ⊕ Monitoring Well
- ◆ Air Sparge
- AST
- ▨ Separator
- ▤ Meter House

Units: mg/kg



**Legend**

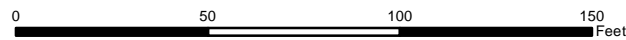
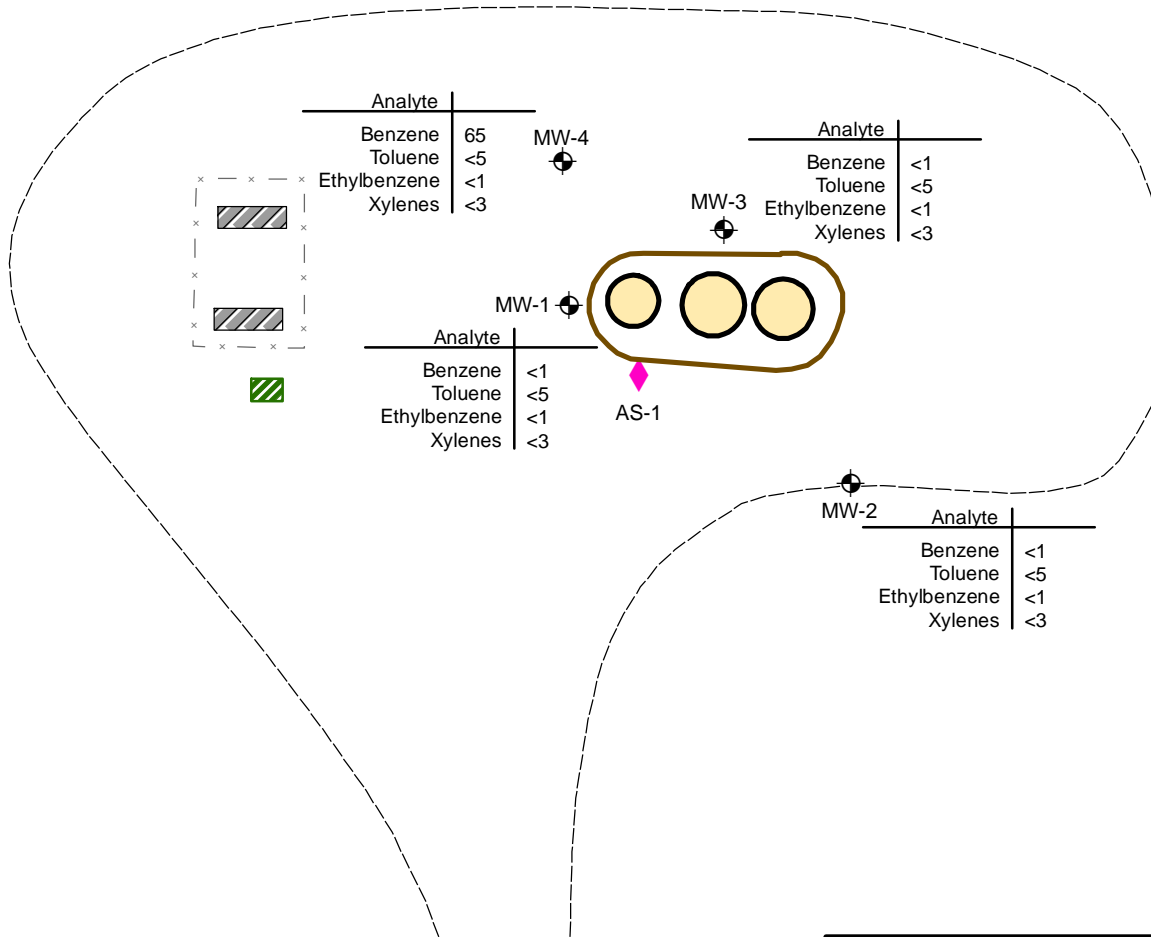
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- ◆ Air Sparge
- 0.05' Contour
- ▭ AST
- ▨ Separator
- ▤ Meter House



**Legend**

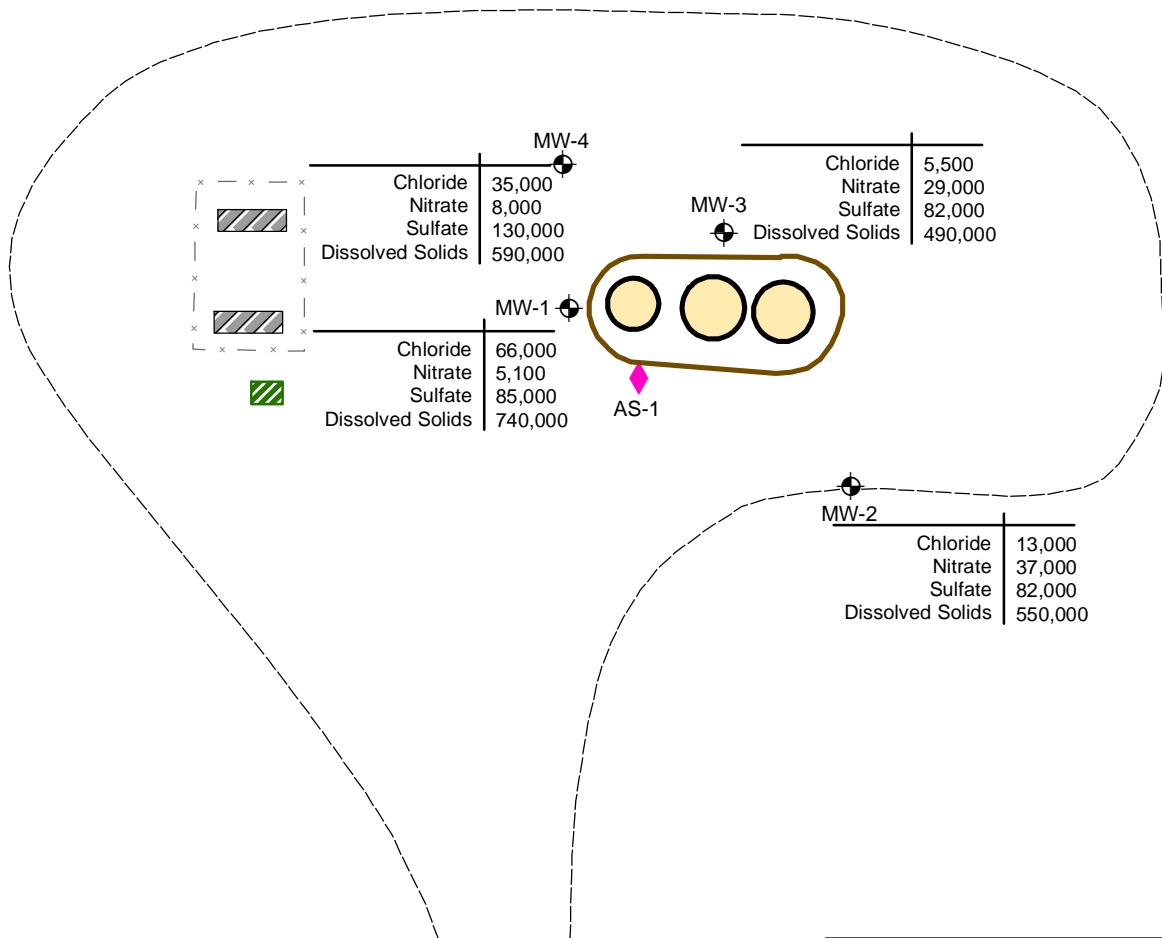
- ⊕ Monitoring Well
- ◆ Air Sparge
- AST
- ▨ Separator
- ▤ Meter House

Units: µg/L



- Legend**
- ⊕ Monitoring Well
  - ◆ Air Sparge
  - ▭ AST
  - ▨ Separator
  - ▤ Meter House

Units: µg/L



## **TABLES**

**TABLE 1 - SOIL ANALYTICAL RESULTS  
 SPRAGUE 13-9 TANK BATTERY  
 WELD COUNTY, COLORADO  
 ENCANA OIL & GAS (USA) INC.**

BTEX/TPH										
Sample ID	Date	Depth (Feet)	PID (ppm)	Benzene	Toluene	Ethylbenzene	Total Xylene	GRO	DRO	TPH
COGCC Table 910-1 Limit				0.17	85	100	175			500
MW-1	11/8/2013	7	1.3	<0.0025	<0.025	<0.0025	<0.0075	<0.5	<4.0	<4.5
MW-2	11/8/2013	7	0.9	<0.0025	<0.025	<0.0025	<0.0075	<0.5	<4.0	<4.5
MW-3	11/8/2013	7	0.9	<0.0025	<0.025	<0.0025	<0.0075	<0.5	<4.0	<4.5
MW-4	11/8/2013	7	0.6	<0.0025	<0.025	<0.0025	<0.0075	1	<4.0	1
AS-1	11/8/2013	7	1.2	<0.0025	<0.025	<0.0025	<0.0075	<0.5	<4.0	<4.5

Inorganics																	
Sample ID	Date	Chromium, Hexavalent	ORP (mV)	pH (su)	Sodium Adsorption Ratio (calc)	Electrical Conductance (umhos/cm)	Mercury	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Selenium	Silver	Zinc
COGCC Table 910-1 Limit		23		6-9	< 12 <sup>5</sup>	<4000	23	0.39	15000	70	120000	3100	400	1600	390	390	23000
AS-1	11/8/2013	<2	170	8.2	1.1	270	<0.02	3.4	33	<0.25	9.5	5.7	4.3	4.3	<1	<0.5	19

PAHs																				
Sample ID	Date	Anthracene	Acenaphthene	Acenaphthylene	Benzo(A)anthracene	Benzo(A)pyrene	Benzo(B)fluoranthene	Benzo(g,h,i)perylene	Benzo(K)fluoranthene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Chloromethylnaphthalene
COGCC Table 910-1 Limit		1000	1000		0.22	0.022	0.22	2.2	2.2	22	0.022	1000	1000	0.22	23		1000			
AS-1	11/8/2013	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.02	<0.006	<0.006	<0.02	<0.02	<0.02

All units in mg/kg unless otherwise noted  
 \* Only AS-1 sampled for full COGCC 910 List

**TABLE 2- GROUNDWATER ELEVATION SUMMARY AND WATER QUALITY FIELD PARAMETERS  
 SPRAGUE 13-9 TANK BATTERY  
 WELD COUNTY, COLORADO  
 ENCANA OIL & GAS (USA) INC.**

Sample ID	Date	Depth to Water (feet)	Groundwater Elevation (ft)	Groundwater Quality Field Parameters					
				Temp. (C°)	Spec. Cond. (µS/cm)	ORP (mV)	Salinity (ppt)	DO (mg/L)	pH (SU)
MW-01 TOC Elevation 100.66	11/13/13	5.43	95.23	14.62	1187	131.1	0.61	1.08	7.43
MW-02 TOC Elevation 100.34	11/13/13	5.02	95.32	14.61	1143	125.2	0.57	1.82	7.31
MW-03 TOC Elevation 100.23	11/13/13	5.08	95.15	13.29	1039	149.9	0.52	1.99	7.66
MW-04 TOC Elevation 100.60	11/13/13	5.43	95.17	14.63	1067	158.9	0.54	1.9	7.31

**NOTES:**

°C - degrees Celsius

µS/cm - microsiemens per centimeter

mV - millivolts

ppt- parts per trillion

mg/L - milligram per liter

SU - standard unit

**TABLE 3A- GROUNDWATER ANALYTICAL RESULTS - ORGANIC COMPOUNDS**  
**Sprage 13-9 TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**ENCANA OIL & GAS (USA) INC.**

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>
MW-1	11/13/13	<1	<5	<1	<3
MW-2	11/13/13	<1	<5	<1	<3
MW-3	11/13/13	<1	<5	<1	<3
MW-4	11/13/13	<b>65</b>	<5	<1	<3

**NOTES:**

µg/L - micrograms per liter

**BOLD** - indicates result exceeds the applicable standard

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

COGCC Table 910-1 - Colorado Oil and Gas Conservation Commission Table 910-1

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

**TABLE 3B- GROUNDWATER ANALYTICAL RESULTS - INORGANIC COMPOUNDS  
 SPRAGUE 13-9 TANK BATTERY  
 WELD COUNTY, COLORADO  
 ENCANA OIL & GAS (USA) INC.**

Sample ID	Date	Chloride (µg/L)	Nitrate (µg/L)	Sulfate (µg/L)	Dissolved Solids (µg/L)
<b>COGCC Table 910-1</b>		<b>212,500</b>	<b>NA</b>	<b>525,000</b>	<b>1,500,000</b>
MW-01	11/13/2013	66,000	5,100	85,000	740,000
MW-02	11/13/2013	13,000	37,000	82,000	550,000
MW-03	11/13/2013	5,500	29,000	82,000	490,000
MW-04	11/13/2013	35,000	8,000	130,000	590,000

**NOTES:**

µg/L - micrograms per liter

NS - not sampled

BOLD - indicates result exceeds the applicable standard

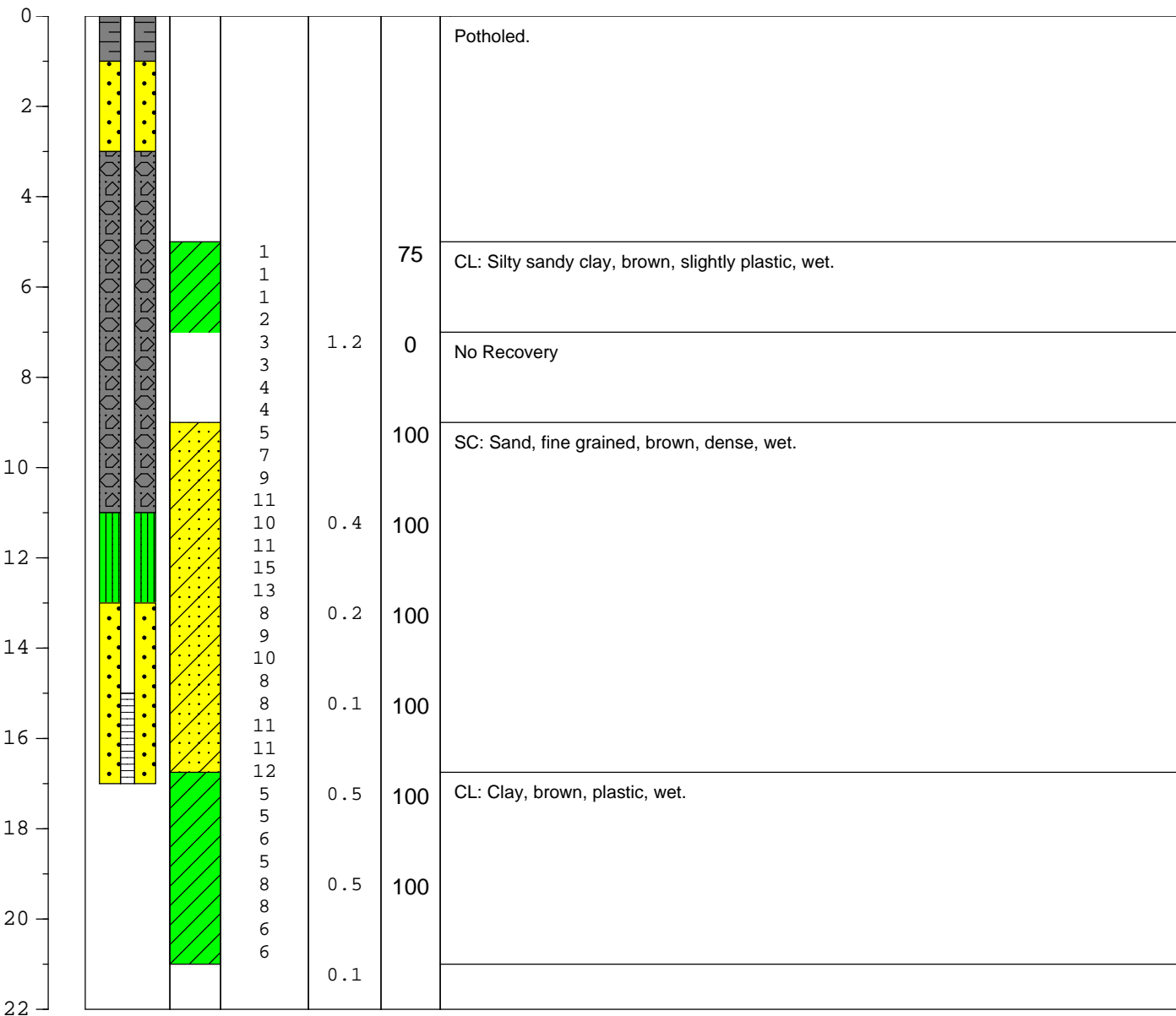
< indicates result is less than the stated laboratory reporting limit

COGCC Table 910-1 - Colorado Oil and Gas Conservation Commission Table 910-1

**ATTACHMENT A**

CLIENT:	Encana	PROJECT #:	335.006	NORTHING:	
DRILLING CO.:	Dakota	LOGGED BY:	T. Loftus	EASTING:	
DATE DRILLED:	11/8/13	DRILLER:	D.	SURFACE ELEV:	ft
LOCATION:	Sprague 13-9	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	2 ft	SLOT SIZE:	0.010 in
CASING DIAM:	2 in	CAS LENGTH:	15 ft	TYPE:	PVC
BORING DEPTH:	17 ft	WELL DEPTH:	17 ft	BORING DIAM:	8.5 in
WELL TYPE:	Flush Mount	SAMPLING METHOD:	Splitspoon	DEPTH TO GW:	NM ft

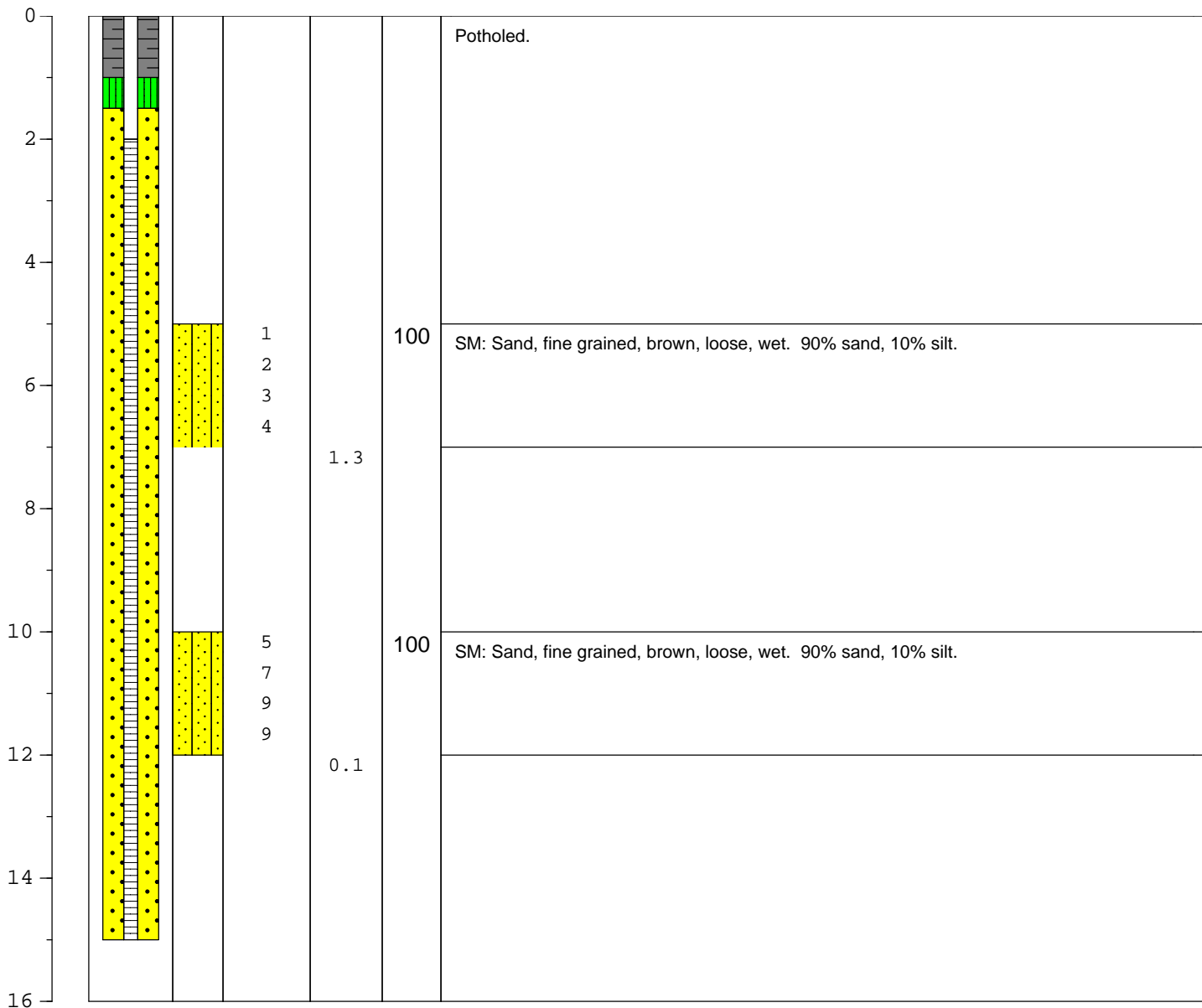
DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

CLIENT:	Encana	PROJECT #:	335.006	NORTHING:	
DRILLING CO.:	Dakota	LOGGED BY:	T. Loftus	EASTING:	
DATE DRILLED:	11/8/13	DRILLER:	D. May	SURFACE ELEV:	ft
LOCATION:	Sprague 13-9	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	13 ft	SLOT SIZE:	0.010 in
CASING DIAM:	2 in	CAS LENGTH:	2 ft	TYPE:	PVC
BORING DEPTH:	15 ft	WELL DEPTH:	15 ft	BORING DIAM:	8.5 in
WELL TYPE:	Flush Mount	SAMPLING METHOD:	Splitspoon	DEPTH TO GW:	NM ft

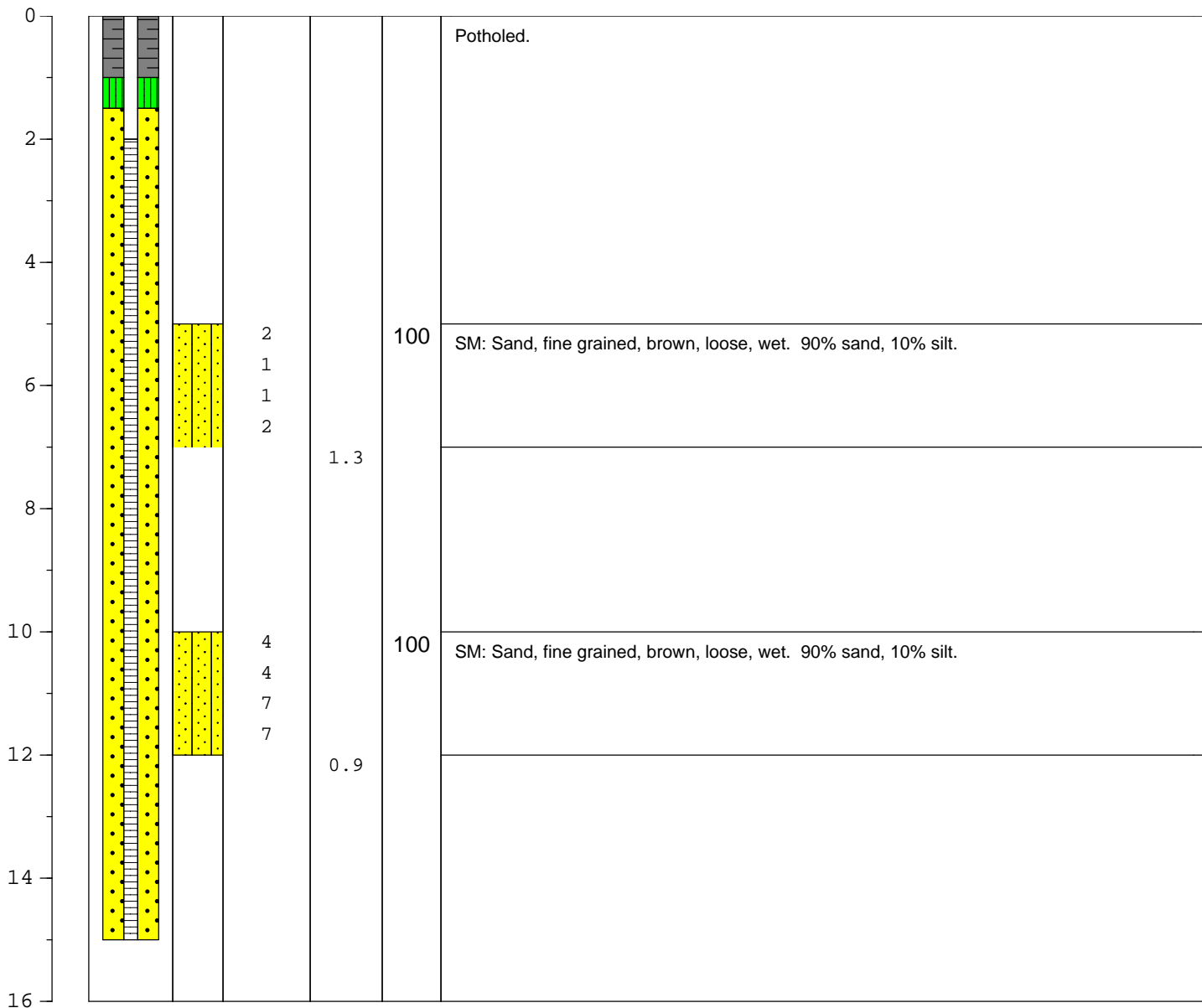
DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

CLIENT:	Encana	PROJECT #:	335.006	NORTHING:	
DRILLING CO.:	Dakota	LOGGED BY:	T. Loftus	EASTING:	
DATE DRILLED:	11/8/13	DRILLER:	D. May	SURFACE ELEV:	ft
LOCATION:	Sprague 13-9	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	13 ft	SLOT SIZE:	0.010 in
CASING DIAM:	2 in	CAS LENGTH:	2 ft	TYPE:	PVC
BORING DEPTH:	15 ft	WELL DEPTH:	15 ft	BORING DIAM:	8.5 in
WELL TYPE:	Flush Mount	SAMPLING METHOD:	Splitspoon	DEPTH TO GW:	NM ft

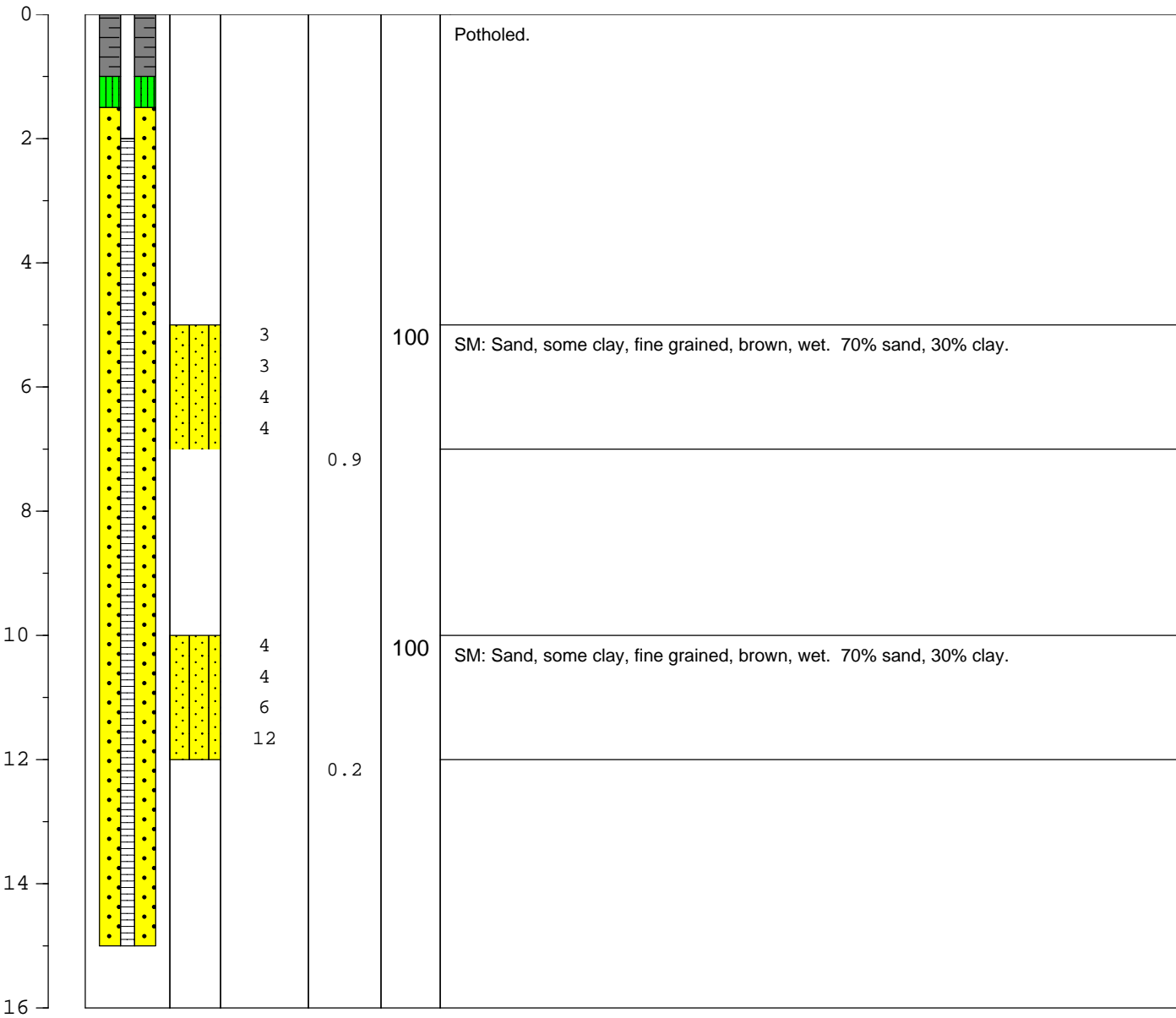
DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

CLIENT:	Encana	PROJECT #:	335.006	NORTHING:	
DRILLING CO.:	Dakota	LOGGED BY:	T. Loftus	EASTING:	
DATE DRILLED:	11/8/13	DRILLER:	D. May	SURFACE ELEV:	ft
LOCATION:	Sprague 13-9	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	13 ft	SLOT SIZE:	0.010 in
CASING DIAM:	2 in	CAS LENGTH:	2 ft	TYPE:	PVC
BORING DEPTH:	15 ft	WELL DEPTH:	15 ft	BORING DIAM:	8.5 in
WELL TYPE:	Flush Mount	SAMPLING METHOD:	Splitspoon	DEPTH TO GW:	NM ft

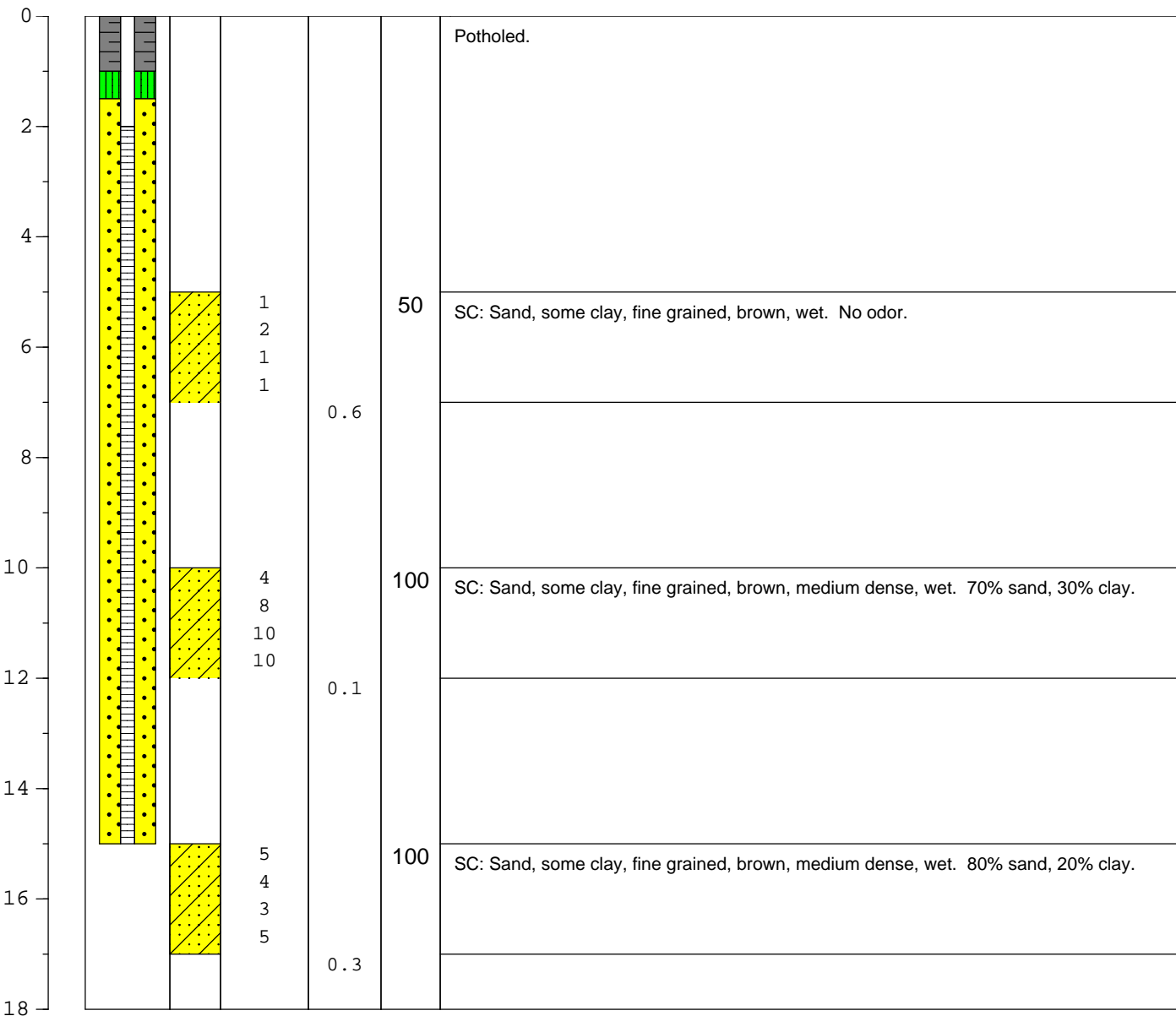
DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

CLIENT:	Encana	PROJECT #:	335.006	NORTHING:	
DRILLING CO.:	Dakota	LOGGED BY:	T. Loftus	EASTING:	
DATE DRILLED:	11/8/13	DRILLER:	D. May	SURFACE ELEV:	ft
LOCATION:	Sprague 13-9	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	13 ft	SLOT SIZE:	0.010 in
CASING DIAM:	2 in	CAS LENGTH:	2 ft	TYPE:	PVC
BORING DEPTH:	15 ft	WELL DEPTH:	15 ft	BORING DIAM:	8.5 in
WELL TYPE:	Flush Mount	SAMPLING METHOD:	Splitspoon	DEPTH TO GW:	NM ft

DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

**ATTACHMENT B**



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

D Blake Ford  
EnCana Oil & Gas - Longmont, CO  
3601 Stagecoach Rd  
Longmont, CO 80504

## Report Summary

Monday November 18, 2013

Report Number: L667869


Samples Received: 11/09/13

Client Project: 335.006

Description: Sprague 13-9

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

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



YOUR LAB OF CHOICE

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Est. 1970

REPORT OF ANALYSIS

D Blake Ford  
EnCana Oil & Gas - Longmont, CO  
3601 Stagecoach Rd  
Longmont, CO 80504

November 18, 2013

Date Received : November 09, 2013  
Description : Sprague 13-9  
Sample ID : MW-4 7FT  
Collected By : Tracy Loftus  
Collection Date : 11/08/13 09:00

ESC Sample # : L667869-01  
Site ID : SPRAGUE 13-9  
Project # : 335.006

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	11/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	11/11/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	11/11/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	11/11/13	5
TPH (GC/FID) Low Fraction	1.0	0.50	mg/kg	GRO	11/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	11/13/13	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	11/11/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	11/17/13	1
Surrogate recovery(%)						
o-Terphenyl	91.3		% Rec.	3546/DRO	11/17/13	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: 11/18/13 16:51 Printed: 11/18/13 16:51



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Est. 1970

REPORT OF ANALYSIS

D Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

November 18, 2013

Date Received : November 09, 2013  
 Description : Sprague 13-9  
 Sample ID : MW-3 7FT  
 Collected By : Tracy Loftus  
 Collection Date : 11/08/13 10:15

ESC Sample # : L667869-02  
 Site ID : SPRAGUE 13-9  
 Project # : 335.006

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	11/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	11/11/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	11/11/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	11/11/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	11/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	11/13/13	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	11/11/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	11/17/13	1
Surrogate recovery(%)						
o-Terphenyl	82.0		% Rec.	3546/DRO	11/17/13	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: 11/18/13 16:51 Printed: 11/18/13 16:51



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REPORT OF ANALYSIS

D Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

November 18, 2013

Date Received : November 09, 2013  
 Description : Sprague 13-9  
 Sample ID : MW-2 7FT  
 Collected By : Tracy Loftus  
 Collection Date : 11/08/13 11:30

ESC Sample # : L667869-03  
 Site ID : SPRAGUE 13-9  
 Project # : 335.006

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	11/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	11/11/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	11/11/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	11/11/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	11/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	11/13/13	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	11/11/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	11/17/13	1
Surrogate recovery(%)						
o-Terphenyl	89.7		% Rec.	3546/DRO	11/17/13	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 Note:  
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Est. 1970

REPORT OF ANALYSIS

D Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

November 18, 2013

Date Received : November 09, 2013  
 Description : Sprague 13-9  
 Sample ID : MW-1 7FT  
 Collected By : Tracy Loftus  
 Collection Date : 11/08/13 12:30

ESC Sample # : L667869-04  
 Site ID : SPRAGUE 13-9  
 Project # : 335.006

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	11/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	11/11/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	11/11/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	11/11/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	11/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	11/11/13	5
a,a,a-Trifluorotoluene(FID)	0.00		% Rec.	8021/8015	11/11/13	5
a,a,a-Trifluorotoluene(PID)	112.		% Rec.	8021/8015	11/11/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	11/17/13	1
Surrogate recovery(%)						
o-Terphenyl	99.3		% Rec.	3546/DRO	11/17/13	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
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REPORT OF ANALYSIS

D Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

November 18, 2013

Date Received : November 09, 2013  
 Description : Sprague 13-9  
 Sample ID : AS-1 7FT  
 Collected By : Tracy Loftus  
 Collection Date : 11/08/13 14:00

ESC Sample # : L667869-05  
 Site ID : SPRAGUE 13-9  
 Project # : 335.006

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/14/13	1
Chromium,Trivalent	9.5	2.0	mg/kg	Calc.	11/14/13	1
ORP	170		mV	2580 B-2011	11/14/13	1
pH	8.2		su	9045D	11/15/13	1
Sodium Adsorption Ratio	1.1			Calc.	11/15/13	1
Specific Conductance	270		umhos/cm	9050AMod	11/16/13	1
Mercury	BDL	0.020	mg/kg	7471	11/13/13	1
Arsenic	3.4	1.0	mg/kg	6010B	11/16/13	1
Barium	33.	0.25	mg/kg	6010B	11/14/13	1
Cadmium	BDL	0.25	mg/kg	6010B	11/14/13	1
Chromium	9.5	0.50	mg/kg	6010B	11/14/13	1
Copper	5.7	1.0	mg/kg	6010B	11/14/13	1
Lead	4.3	0.25	mg/kg	6010B	11/14/13	1
Nickel	4.3	1.0	mg/kg	6010B	11/14/13	1
Selenium	BDL	1.0	mg/kg	6010B	11/14/13	1
Silver	BDL	0.50	mg/kg	6010B	11/14/13	1
Zinc	19.	1.5	mg/kg	6010B	11/14/13	1
Benzene	BDL	0.0025	mg/kg	8021/8015	11/10/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	11/10/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	11/10/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	11/10/13	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/8015	11/10/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	11/10/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.2		% Rec.	8021/8015	11/10/13	5
a,a,a-Trifluorotoluene(PID)	98.9		% Rec.	8021/8015	11/10/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	11/17/13	1
Surrogate recovery(%)						
o-Terphenyl	86.6		% Rec.	3546/DRO	11/17/13	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)  
 L667869-05 (PH) - 8.2@17.8c



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REPORT OF ANALYSIS

D Blake Ford  
EnCana Oil & Gas - Longmont, CO  
3601 Stagecoach Rd  
Longmont, CO 80504

November 18, 2013

Date Received : November 09, 2013  
Description : Sprague 13-9  
Sample ID : AS-1 7FT  
Collected By : Tracy Loftus  
Collection Date : 11/08/13 14:00

ESC Sample # : L667869-05  
Site ID : SPRAGUE 13-9  
Project # : 335.006

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	11/16/13	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	11/16/13	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	11/16/13	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	11/16/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	11/16/13	1
Surrogate Recovery						
Nitrobenzene-d5	92.0		% Rec.	8270C-SIM	11/16/13	1
2-Fluorobiphenyl	93.9		% Rec.	8270C-SIM	11/16/13	1
p-Terphenyl-d14	91.0		% Rec.	8270C-SIM	11/16/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L667869-05 (PH) - 8.2@17.8c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L667869-04	WG691641	SAMP	a,a,a-Trifluorotoluene(FID)	R2852607	J2
L667869-05	WG692108	SAMP	Barium	R2854581	O1
	WG692108	SAMP	Chromium	R2854581	O1
	WG692108	SAMP	Copper	R2854581	O1
	WG692108	SAMP	Lead	R2854581	BO1
	WG692108	SAMP	Zinc	R2854581	O1

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
O1	(ESC) The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

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  
11/18/13 at 16:51:39

TSR Signing Reports: 358  
R5 - Desired TAT

Log all BTEX waters as V826BTEX unless specified otherwise. Try not to report benzene as BDL  
above a 250x dilution.

Sample: L667869-01 Account: ENCANLCO Received: 11/09/13 09:00 Due Date: 11/15/13 00:00 RPT Date: 11/18/13 16:51

Sample: L667869-02 Account: ENCANLCO Received: 11/09/13 09:00 Due Date: 11/15/13 00:00 RPT Date: 11/18/13 16:51

Sample: L667869-03 Account: ENCANLCO Received: 11/09/13 09:00 Due Date: 11/15/13 00:00 RPT Date: 11/18/13 16:51

Sample: L667869-04 Account: ENCANLCO Received: 11/09/13 09:00 Due Date: 11/15/13 00:00 RPT Date: 11/18/13 16:51

Sample: L667869-05 Account: ENCANLCO Received: 11/09/13 09:00 Due Date: 11/15/13 00:00 RPT Date: 11/18/13 16:51  
Changed ASG to ASICP per JW. AV 11/13

Company Name/Address <b>Rule Engineering</b> 1055 Kipting St. Lakewood, CO 80215 Encanlco - Rule Encana Oil & Gas 3001 Stagecoach Rd Longmont, CO 80504		Alternate Billing Encana Oil & Gas Attn Blake Ford Longmont, CO 80504		Analysis/Container/Preservative				Chain of Custody Page ___ of ___				
Project Description: Sprague 13-9		ENCANLCO - RULE		BTEX/TPH 910-1 List				Prepared by <b>J078</b>				
PHONE: 303-431-8500	Client Project No. 335.006	Lab Project #	Report to: Tracy Loftus Blake Ford					ENVIRONMENTAL Science corp		12065 Lebanon Road		
FAX: 303-431-3750			E-mail to: @ruleengineering.com tloftus@encanlco.com					Mt. Juliet TN 37122		Phone (615)758-5858		
Collected by: Tracy Loftus	Site/Facility ID# Sprague 13-9	P.O.#						Phone (800) 767-5859		FAX (615)758-5859		
Collected by (signature): Tracy Loftus	<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified)	Date Results Needed	Email? <input type="checkbox"/> No <input type="checkbox"/> Yes					CoCode RULENGCO (lab use only)		Template/Prelogin		
Packed on Ice <input checked="" type="checkbox"/>	Same Day.....200%		FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes					Shipped Via: Denver Service Center				
	Next Day.....100%							Remarks/contaminant		Sample # (lab only)		
	Two Day.....50%											
Sample ID	Comp/Grab	Matrix	Depth					Date	Time	Cntrs		
mw-4@7'	Grab	SS	7'					11/8/13	900	2	X	L667869-01
mw-3@7'			7'	11/8/13	1015	2	X	-02				
mw-2@7'			7'	11/8/13	1130	2	X	-03				
mw-1@7'			7'	11/8/13	1230	2	X	-04				
AS-1@	Grab	SS	7'	11/8/13	1400	3	X X	-05				

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

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquisher by: (Signature) <i>Tracy Loftus</i>	Date: 11/8/13	Time: 1435	Received by: (Signature) <i>Blake Ford</i>	Samples returned via: Fed <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> Other _____	Condition (lab use only)
Relinquisher by: (Signature) <i>[Signature]</i>	Date: 11/8/13	Time: 3:45	Received by: (Signature) <i>[Signature]</i>	Temp: 2.6°C	Bottles Received: 11 = 402
Relinquisher by: (Signature) <i>[Signature]</i>	Date: 11/8/13	Time: 4:30	Received by: (Signature) <i>[Signature]</i>	Date: 11-9-13	Time: 0900
				pH Checked:	NCF:



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EnCana Oil & Gas - Longmont, CO  
3601 Stagecoach Rd  
Longmont, CO 80504

## Report Summary

Thursday November 21, 2013

Report Number: L668837


Samples Received: 11/14/13

Client Project: 335.005

Description: Sprague 13-9

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.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

November 21, 2013

D Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : November 14, 2013  
 Description : Sprague 13-9  
 Sample ID : MW-1  
 Collected By : Jeff Braden  
 Collection Date : 11/13/13 11:35

ESC Sample # : L668837-01  
 Site ID : SPRAGUE 13-9  
 Project # : 335.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	66000	1000	ug/l	9056	11/14/13	1
Nitrate	5100	100	ug/l	9056	11/14/13	1
Sulfate	85000	5000	ug/l	9056	11/20/13	1
Dissolved Solids	740000	10000	ug/l	2540 C-201	11/19/13	1
Benzene	BDL	1.0	ug/l	8260B	11/20/13	1
Toluene	BDL	5.0	ug/l	8260B	11/19/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/19/13	1
Total Xylenes	BDL	3.0	ug/l	8260B	11/19/13	1
Surrogate Recovery						
Toluene-d8	98.0		% Rec.	8260B	11/19/13	1
Dibromofluoromethane	109.		% Rec.	8260B	11/19/13	1
a,a,a-Trifluorotoluene	97.8		% Rec.	8260B	11/19/13	1
4-Bromofluorobenzene	88.9		% Rec.	8260B	11/19/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

November 21, 2013

D Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : November 14, 2013  
 Description : Sprague 13-9  
 Sample ID : MW-2  
 Collected By : Jeff Braden  
 Collection Date : 11/13/13 11:05

ESC Sample # : L668837-02  
 Site ID : SPRAGUE 13-9  
 Project # : 335.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	13000	10000	ug/l	9056	11/14/13	10
Nitrate	37000	1000	ug/l	9056	11/14/13	10
Sulfate	82000	5000	ug/l	9056	11/20/13	1
Dissolved Solids	550000	10000	ug/l	2540 C-201	11/19/13	1
Benzene	BDL	1.0	ug/l	8260B	11/19/13	1
Toluene	BDL	5.0	ug/l	8260B	11/19/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/19/13	1
Total Xylenes	BDL	3.0	ug/l	8260B	11/19/13	1
Surrogate Recovery						
Toluene-d8	97.1		% Rec.	8260B	11/19/13	1
Dibromofluoromethane	112.		% Rec.	8260B	11/19/13	1
a,a,a-Trifluorotoluene	98.7		% Rec.	8260B	11/19/13	1
4-Bromofluorobenzene	90.6		% Rec.	8260B	11/19/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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November 21, 2013

D Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : November 14, 2013  
 Description : Sprague 13-9  
 Sample ID : MW-3  
 Collected By : Jeff Braden  
 Collection Date : 11/13/13 10:40

ESC Sample # : L668837-03  
 Site ID : SPRAGUE 13-9  
 Project # : 335.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	5500	1000	ug/l	9056	11/15/13	1
Nitrate	29000	1000	ug/l	9056	11/14/13	10
Sulfate	82000	5000	ug/l	9056	11/15/13	1
Dissolved Solids	490000	10000	ug/l	2540 C-201	11/19/13	1
Benzene	BDL	1.0	ug/l	8260B	11/19/13	1
Toluene	BDL	5.0	ug/l	8260B	11/19/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/19/13	1
Total Xylenes	BDL	3.0	ug/l	8260B	11/19/13	1
Surrogate Recovery						
Toluene-d8	95.5		% Rec.	8260B	11/19/13	1
Dibromofluoromethane	106.		% Rec.	8260B	11/19/13	1
a,a,a-Trifluorotoluene	97.3		% Rec.	8260B	11/19/13	1
4-Bromofluorobenzene	89.4		% Rec.	8260B	11/19/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

November 21, 2013

D Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : November 14, 2013  
 Description : Sprague 13-9  
 Sample ID : MW-4  
 Collected By : Jeff Braden  
 Collection Date : 11/13/13 10:15

ESC Sample # : L668837-04  
 Site ID : SPRAGUE 13-9  
 Project # : 335.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	35000	1000	ug/l	9056	11/14/13	1
Nitrate	8000	100	ug/l	9056	11/14/13	1
Sulfate	130000	10000	ug/l	9056	11/15/13	2
Dissolved Solids	590000	10000	ug/l	2540 C-201	11/19/13	1
Benzene	65.	1.0	ug/l	8260B	11/19/13	1
Toluene	BDL	5.0	ug/l	8260B	11/19/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/19/13	1
Total Xylenes	BDL	3.0	ug/l	8260B	11/19/13	1
Surrogate Recovery						
Toluene-d8	99.5		% Rec.	8260B	11/19/13	1
Dibromofluoromethane	107.		% Rec.	8260B	11/19/13	1
a,a,a-Trifluorotoluene	98.3		% Rec.	8260B	11/19/13	1
4-Bromofluorobenzene	89.9		% Rec.	8260B	11/19/13	1

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: 11/21/13 09:41 Printed: 11/21/13 09:42

Summary of Remarks For Samples Printed  
11/21/13 at 09:42:08

TSR Signing Reports: 358  
R5 - Desired TAT

Log all BTEX waters as V826BTEX unless specified otherwise. Try not to report benzene as BDL  
above a 250x dilution.

Sample: L668837-01 Account: ENCANLCO Received: 11/14/13 09:30 Due Date: 11/21/13 00:00 RPT Date: 11/21/13 09:41

Sample: L668837-02 Account: ENCANLCO Received: 11/14/13 09:30 Due Date: 11/21/13 00:00 RPT Date: 11/21/13 09:41

Sample: L668837-03 Account: ENCANLCO Received: 11/14/13 09:30 Due Date: 11/21/13 00:00 RPT Date: 11/21/13 09:41

Sample: L668837-04 Account: ENCANLCO Received: 11/14/13 09:30 Due Date: 11/21/13 00:00 RPT Date: 11/21/13 09:41

Company Name/Address:  
**Encana Oil & Gas**  
 3601 Stagecoach Rd.  
 Longmont, CO 80504  
 ENCANLCO-RULE

Billing Information:  
 Accts. Payable- Tarah Garza  
 3601 Stagecoach Rd.  
 Longmont, CO 80504  
 tarah.garza@encana.com

Report to:  
**David Blake Ford/Tracy Loftus**

Email To:  
**David.Ford@encana.com/tloftus@**

Project Description:  
**Sprague 13-9**

City/State Collected:  
**Weld County, CO**

Phone: **970-379-9558**  
 Fax:

Client Project #  
**335.005**

Lab Project #  
**ENCANLCO-RULE**

Collected by (print):  
*Jeff Braden*

Site/Facility ID #  
**Sprague 13-9**

P.O. #

Collected by (signature):  
*[Signature]*  
 Immediately Packed on Ice N    Y X

**Rush?** (Lab MUST Be Notified)  
 Same Day .....200%  
 Next Day .....100%  
 Two Day .....50%  
 Three Day .....25%

Date Results Needed  
 Email?   No XYes  
 FAX? XNo   Yes

Analysis / Container / Preservative

BTEX (2) 40ml Amb w/HCl	TDS (1) 250ml HDPE No Pres.	Nitrate/Sulfate/Chloride (1) 250ml HDPE No Pres.																		
-------------------------	-----------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Chain of Custody Page \_\_\_ of \_\_\_



YOUR LAB OF CHOICE

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



L# **668837**  
**J180**

Table

Acctnum: **ENCANLCO**  
 Template:  
 Prelogin:  
 TSR: **Jarred Willis**  
 Cooler:  
 Shipped Via:

Rem./Contaminant	Sample # (lab only)
	-01
	02
	03
	04

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX (2) 40ml Amb w/HCl	TDS (1) 250ml HDPE No Pres.	Nitrate/Sulfate/Chloride (1) 250ml HDPE No Pres.												
MW-1	Grab	GW		11-13-13	1135	4	X	X	X												
MW-2	I	I			1105	4	X	X	X												
MW-3	I	I			1040	4	X	X	X												
MW-4	I	I			1015	4	X	X	X												

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

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Remarks:

Relinquished by: (Signature)  
*[Signature]*

Relinquished by: (Signature)  
*[Signature]*

Relinquished by: (Signature)  
*[Signature]*

Date: 11-13-13  
 Time: 9:20

Date: 11-13-13  
 Time: 5:15

Date:  
 Time:

Received by: (Signature)  
*[Signature]*

Received by: (Signature)  
*[Signature]*

Received for lab by: (Signature)  
*[Signature]*

Samples returned via:  UPS  
 FedEx  Courier  \_\_\_\_\_

Temp: 3.6 °C Bottles Received: 16

Date: 11-14-13 Time: 0930

Hold #

Condition: **F** (lab use only)

COC Seal Intact:   Y   N XNA

pH Checked: NCF:

5781 0502 2927