

NARRATIVE ATTACHMENT

FORM 4 (SUNDRY NOTICE)

Culvert Pit Closure (West Dragon Trail Unit 4025)

Document Date-10/10/2013

Introduction

Encana Oil & Gas (USA) Inc. (Encana) is submitting this Form 4 Sundry Notice to request final closure status for the culvert pit associated with the West Dragon Trail Unit #4025 (COGCC facility #316007, COGCC remediation #7575). The site investigation was conducted by a third party contractor as authorized by Encana personnel and in accordance with the approved Form 27 previously submitted for this location. All samples were collected in accordance with Encana's Environmental Compliance Group's Sampling Procedures. The analytical results for the respective soil samples are provided in Table 1 and Attachment A of this submittal. The text below provides the details of the site investigation. For a visual description of the site please refer to Figures 1, 2, and 3 – Site Maps.

Assessment Activities

July 8, 2013 - The excavated soil surrounding the culvert pit was screened utilizing a photoionization detector (PID) prior to collecting soil samples for laboratory analysis. The culvert pit (steel ring, soil, no cement bottom) was carefully removed using a trackhoe and placed onsite for later recycling or disposal. It should be noted that there was a little liquid/sludge associated with the bottom of the culvert pit during the time of removal. A grab sample was collected directly from the lowest point of the culvert pit after excavation. In addition, four (4) grab samples were collected, one from each excavated sidewall. Approximately 100 cubic yards of excavated material was removed from the pit and laid out in 1.5 foot tall (58' x 33') lift for evaluation of impacts. The excavated material was sampled by way of a nine (9) point composite sample. Four (4) background samples were collected from approximately six (6) inches beneath the grounds surface for analysis with regards to arsenic.

Analytical Review

Sample results indicate that soil within the culvert pit footprint on Encana's West Dragon Trail Unit #4025 well pad, had organic constituent concentrations of the excavated area below or within COGCC Table 910-1 except for Total Petroleum Hydrocarbons (TPH) (8,350 ppm – base) and benzene (0.21 ppm). Analytical results indicated the excavated material exceeded COGCC Table 910-1 allowable concentrations for arsenic (3.8 ppm), SAR (12), and TPH (590 ppm). Though the arsenic concentration in the soil is above the allowable concentration identified in Table 910-1, the concentration is within the range of arsenic background values (3.4 – 14.0 ppm) in this area. Based on these results and footnote 1 to COGCC Table 910-1, Encana requests that the COGCC consider the higher range of background arsenic value(s) as the allowable concentration for this constituent. Please see Table 1 and Attachment A for the analytical results.

The two locations (base, and excavated material) that exceeded COGCC Table 910-1 analytical value for TPH and benzene were resampled September 26, 2013 and analytical values indicated that the excavated material was below or within COGCC Table 910-1 allowable concentrations. The 2nd base sample (5,000 ppm) exceeded the COGCC Table 910-1 allowable concentration however; impenetrable bedrock was



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reached at 9 feet bgs. The 2nd base sample also shows a reduction from 8,350 ppm to 5,000 ppm which reflects the natural attenuation process.

Though the elevated arsenic and SAR level of the returned spoil material within the excavated footprint area are above the allowable levels identified in Table 910-1; it will be buried greater than three feet bgs of existing pad footprint material to assure that material with elevated level of arsenic and SAR will have no adverse effect on future re-vegetation efforts and receptors in the area. Please see Table 1 and Attachment A for analytical results.

Conclusion

Based on the site investigation and analytical results, the culvert pit associated with the West Dragon Trail Unit #4025 is in compliance with the standards specified within COGCC Table 910-1 with regards to the sidewall samples and excavated material. The base sample exceeds Table 910-1 allowable concentrations however; further removal by excavation could not be completed due to reaching impenetrable bedrock at the base of the pit. We believe the source area has been removed and that the process of natural attenuation will reduce the base concentrations. Groundwater was not encountered during excavation and this location is not within a sensitive area (according to Rule 901e). Encana respectfully requests that final closure be granted for the respective pit, COGCC remediation #7575.

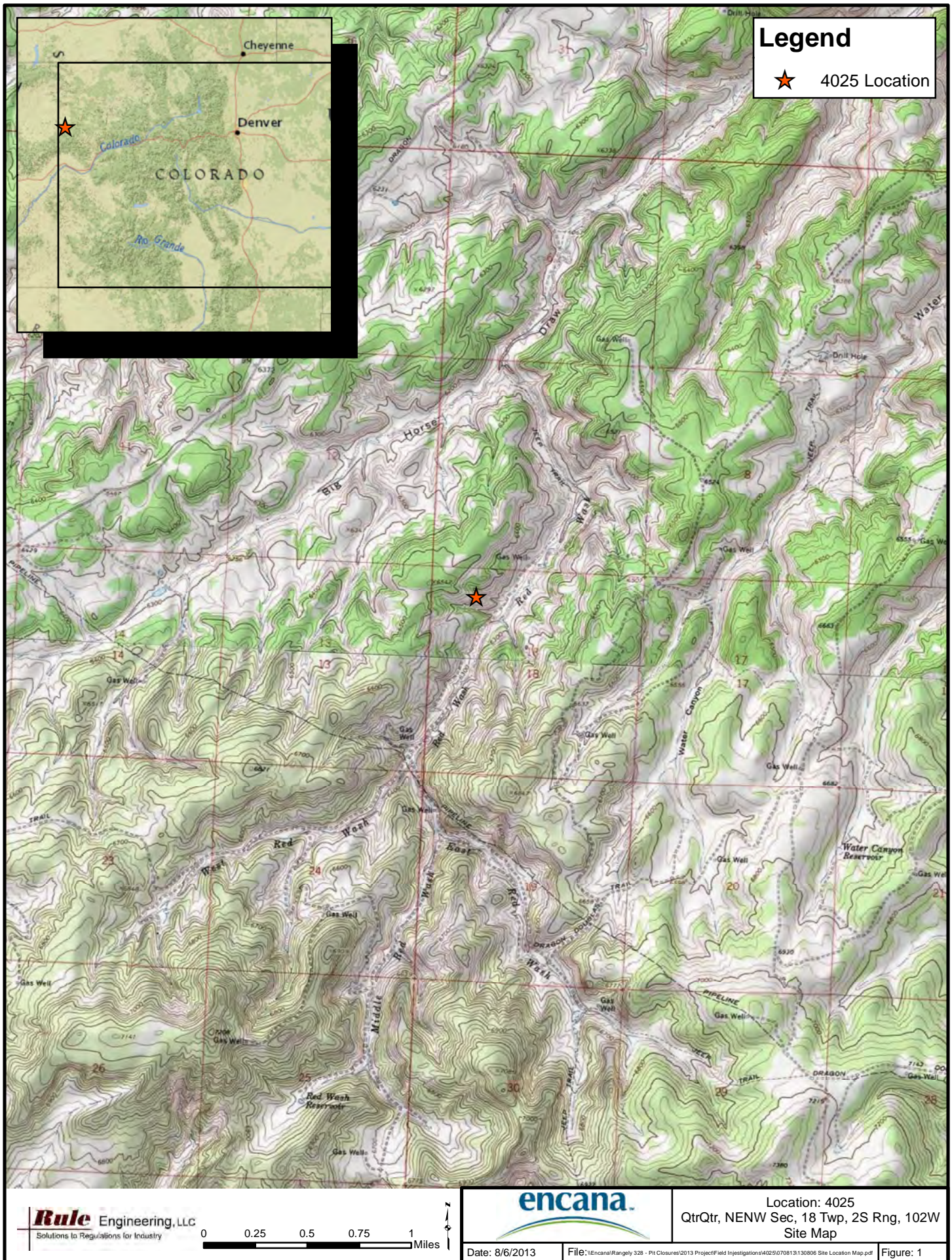
Notification of Completion

This Sundry Notice is also being submitted as the Notification of Completion for Remediation #7575. If the information provided here is satisfactory, please provide documentation of the closure of this remediation project.

Attachments

Topographic Location Map (Figure 1)
4025 Aerial map with sample locations (Figure 2)
4025 Site Diagram of Excavation and sample locations (Figure 3)
Laboratory Results Summary Table 1 – 4025 Site Investigation (Table 1)
Attachment A- Laboratory Reports

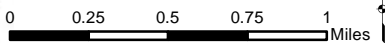




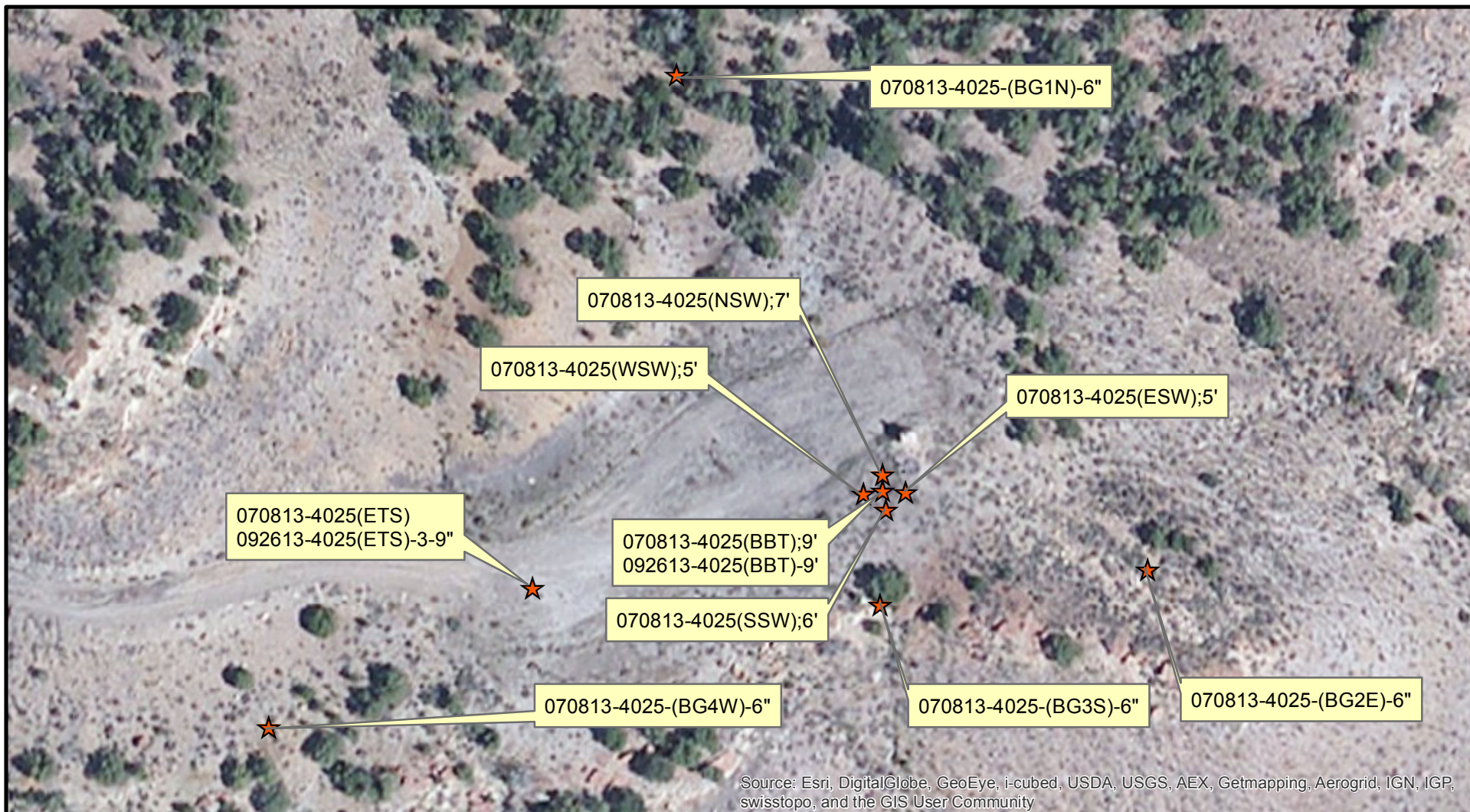
Legend

★ 4025 Location

Rule Engineering, LLC
Solutions to Regulations for Industry



Location: 4025
QtrQtr, NENW Sec, 18 Twp, 2S Rng, 102W
Site Map



Legend

★ Soil Sample Location

0 37.5 75 150 225 Feet

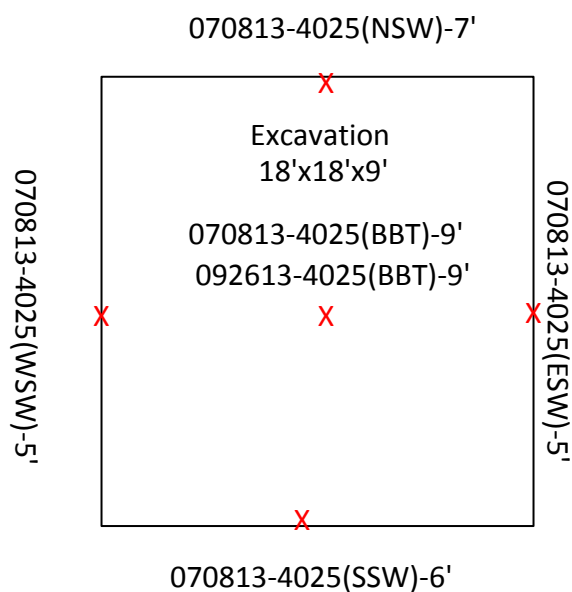
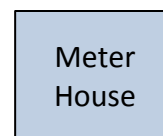


Rule Engineering, LLC
Solutions to Regulations for Industry

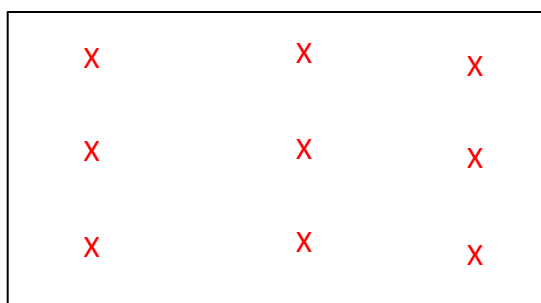


4025
Sample Location Map

DATE: 10/4/2013 | JG | FILE: \\Encana\Rangelly 328 - Pit Closures\2013 Project\Field Investigations\4025\092613\130926 Sample Location Map.pdf | FIGURE: 2



070813-4025(ETS)
092613-4025(ETS)



Lift
58' x 33'

Legend
X-Sample



Well: Figure 3. 4025 Site Diagram

Area: West Dragon Trail Unit

Legal: NESW, Sec 18, 02S, 102W, 6th PM

Date: 10/10/13

Drawn By: Shad Johnson

Revision Date:

Scale: None

Page 1 of 1

Appendix A



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

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Thursday July 18, 2013

Report Number: L645747


Samples Received: 07/10/13

Client Project: 4025

Description: 4025-Site Clearance

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:


Jarred 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.

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Mt. Juliet, TN 37122
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Fax (615) 758-5859

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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 18, 2013

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025(NSW) 7 FT
Collected By : Brad Ward
Collection Date : 07/08/13 13:21

ESC Sample # : L645747-01

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/11/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/11/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.2		% Rec.	8021/8015	07/11/13	5
a,a,a-Trifluorotoluene(PID)	96.4		% Rec.	8021/8015	07/11/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	07/14/13	1
Surrogate recovery(%)						
o-Terphenyl	62.4		% Rec.	3546/DRO	07/14/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 18, 2013

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025(ESW) 5 FT
Collected By : Brad Ward
Collection Date : 07/08/13 13:29

ESC Sample # : L645747-02

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/11/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/11/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.2		% Rec.	8021/8015	07/11/13	5
a,a,a-Trifluorotoluene(PID)	96.0		% Rec.	8021/8015	07/11/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	07/14/13	1
Surrogate recovery(%)						
o-Terphenyl	76.9		% Rec.	3546/DRO	07/14/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 18, 2013

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025(SSW) 6 FT
Collected By : Brad Ward
Collection Date : 07/08/13 13:38

ESC Sample # : L645747-03

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/11/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Total Xylene	0.011	0.0075	mg/kg	8021/8015	07/11/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.4		% Rec.	8021/8015	07/11/13	5
a,a,a-Trifluorotoluene(PID)	96.1		% Rec.	8021/8015	07/11/13	5
TPH (GC/FID) High Fraction	28.	4.0	mg/kg	3546/DRO	07/15/13	1
Surrogate recovery(%)						
o-Terphenyl	55.1		% Rec.	3546/DRO	07/15/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Fax (615) 758-5859

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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 18, 2013

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025(WSW) 5 FT
Collected By : Brad Ward
Collection Date : 07/08/13 13:51

ESC Sample # : L645747-04

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/11/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/11/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.8		% Rec.	8021/8015	07/11/13	5
a,a,a-Trifluorotoluene(PID)	95.7		% Rec.	8021/8015	07/11/13	5
TPH (GC/FID) High Fraction	19.	4.0	mg/kg	3546/DRO	07/16/13	1
Surrogate recovery(%)						
o-Terphenyl	62.4		% Rec.	3546/DRO	07/16/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 18, 2013

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025(BBT) 9 FT
Collected By : Brad Ward
Collection Date : 07/08/13 14:00

ESC Sample # : L645747-05

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.21	0.12	mg/kg	8021/8015	07/11/13	250
Toluene	1.4	1.2	mg/kg	8021/8015	07/11/13	250
Ethylbenzene	1.2	0.12	mg/kg	8021/8015	07/11/13	250
Total Xylene	9.2	0.38	mg/kg	8021/8015	07/11/13	250
TPH (GC/FID) Low Fraction	150	25.	mg/kg	GRO	07/11/13	250
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.0		% Rec.	8021/8015	07/11/13	250
a,a,a-Trifluorotoluene(PID)	96.2		% Rec.	8021/8015	07/11/13	250
TPH (GC/FID) High Fraction	8200	200	mg/kg	3546/DRO	07/16/13	50
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/16/13	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 18, 2013

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025(ETS)
Collected By : Brad Ward
Collection Date : 07/08/13 14:52

ESC Sample # : L645747-06

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	200	mg/kg	3060A/7196A	07/13/13	100
Chromium,Trivalent	BDL	200	mg/kg	Calc.	07/17/13	1
ORP	250		mV	2580 B-2011	07/13/13	1
pH	7.7		su	9045D	07/16/13	1
Sodium Adsorption Ratio	12.			Calc.	07/13/13	1
Specific Conductance	3600		umhos/cm	9050AMod	07/13/13	1
Mercury	0.038	0.020	mg/kg	7471	07/12/13	1
Arsenic	3.8	1.0	mg/kg	6010B	07/17/13	1
Barium	250	0.25	mg/kg	6010B	07/17/13	1
Cadmium	0.84	0.25	mg/kg	6010B	07/17/13	1
Chromium	14.	0.50	mg/kg	6010B	07/17/13	1
Copper	14.	1.0	mg/kg	6010B	07/17/13	1
Lead	12.	0.25	mg/kg	6010B	07/17/13	1
Nickel	17.	1.0	mg/kg	6010B	07/17/13	1
Selenium	BDL	1.0	mg/kg	6010B	07/17/13	1
Silver	BDL	0.50	mg/kg	6010B	07/17/13	1
Zinc	160	1.5	mg/kg	6010B	07/17/13	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/11/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/11/13	5
Ethylbenzene	0.0080	0.0025	mg/kg	8021/8015	07/11/13	5
Total Xylene	0.051	0.0075	mg/kg	8021/8015	07/11/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/11/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.6		% Rec.	8021/8015	07/11/13	5
a,a,a-Trifluorotoluene(PID)	95.5		% Rec.	8021/8015	07/11/13	5
TPH (GC/FID) High Fraction	590	80.	mg/kg	3546/DRO	07/16/13	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/16/13	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.012	0.0060	mg/kg	8270C-SIM	07/16/13	1
Acenaphthene	0.078	0.0060	mg/kg	8270C-SIM	07/16/13	1
Acenaphthylene	0.010	0.0060	mg/kg	8270C-SIM	07/16/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/16/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/16/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L645747-06 (CR6) - Diluted due to sample color interference.
L645747-06 (PH) - 7.7@24.0c



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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 18, 2013

Date Received : July 10, 2013
Description : 4025-Site Clearance

Sample ID : 070813-4025(ETS)

Collected By : Brad Ward
Collection Date : 07/08/13 14:52

ESC Sample # : L645747-06

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	0.057	0.0060	mg/kg	8270C-SIM	07/16/13	1
Benzo(g,h,i)perylene	0.0097	0.0060	mg/kg	8270C-SIM	07/16/13	1
Benzo(k)fluoranthene	0.0075	0.0060	mg/kg	8270C-SIM	07/16/13	1
Chrysene	0.020	0.0060	mg/kg	8270C-SIM	07/16/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/16/13	1
Fluoranthene	0.028	0.0060	mg/kg	8270C-SIM	07/16/13	1
Fluorene	0.15	0.0060	mg/kg	8270C-SIM	07/16/13	1
Indeno(1,2,3-cd)pyrene	0.0093	0.0060	mg/kg	8270C-SIM	07/16/13	1
Naphthalene	0.071	0.020	mg/kg	8270C-SIM	07/16/13	1
Phenanthrene	0.27	0.0060	mg/kg	8270C-SIM	07/16/13	1
Pyrene	0.051	0.0060	mg/kg	8270C-SIM	07/16/13	1
1-Methylnaphthalene	0.18	0.020	mg/kg	8270C-SIM	07/16/13	1
2-Methylnaphthalene	0.23	0.020	mg/kg	8270C-SIM	07/16/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	07/16/13	1
Surrogate Recovery						
Nitrobenzene-d5	77.7		% Rec.	8270C-SIM	07/16/13	1
2-Fluorobiphenyl	75.2		% Rec.	8270C-SIM	07/16/13	1
p-Terphenyl-d14	84.8		% Rec.	8270C-SIM	07/16/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L645747-06 (CR6) - Diluted due to sample color interference.

L645747-06 (PH) - 7.7@24.0c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L645747-03	WG671838	SAMP	TPH (GC/FID) High Fraction	R2744523	J6J3
L645747-05	WG671838	SAMP	o-Terphenyl	R2745803	J7
L645747-06	WG672046	SAMP	Chromium, Trivalent	R2748261	O
	WG671131	SAMP	Chromium, Hexavalent	R2743400	O
	WG671838	SAMP	o-Terphenyl	R2745803	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary 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
07/18/13 at 11:04:09

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L645747-01 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03
Sample: L645747-02 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03
Sample: L645747-03 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03
Sample: L645747-04 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03
Sample: L645747-05 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03
Sample: L645747-06 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03



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

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Est. 1970

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Thursday July 18, 2013

Report Number: L645752


Samples Received: 07/10/13

Client Project: 4025

Description: 4025-Site Clearance

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:


Jarred 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

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REPORT OF ANALYSIS

July 18, 2013

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025-(BG1N) 6 IN
Collected By : Brad Ward
Collection Date : 07/08/13 12:06

ESC Sample # : L645752-01

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.2	1.0	mg/kg	6010B	07/17/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/18/13 11:03 Printed: 07/18/13 11:03



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REPORT OF ANALYSIS

July 18, 2013

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025-(BG2E) 6 IN
Collected By : Brad Ward
Collection Date : 07/08/13 11:41

ESC Sample # : L645752-02

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.4	1.0	mg/kg	6010B	07/17/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

July 18, 2013

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025-(BG4W) 6 IN
Collected By : Brad Ward
Collection Date : 07/08/13 11:58

ESC Sample # : L645752-03
Site ID : 4025
Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	07/17/13	1

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

July 18, 2013

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Date Received : July 10, 2013
Description : 4025-Site Clearance
Sample ID : 070813-4025-(BG3S) 6 IN
Collected By : Brad Ward
Collection Date : 07/08/13 11:50

ESC Sample # : L645752-04

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.8	1.0	mg/kg	6010B	07/17/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/18/13 11:03 Printed: 07/18/13 11:04

Summary of Remarks For Samples Printed
07/18/13 at 11:04:01

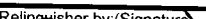


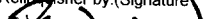



TSR Signing Reports: 358
R5 - Desired TAT

Sample: L645752-01 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03

Sample: L645752-02 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03

Sample: L645752-03 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03

Sample: L645752-04 Account: ENCANRCO Received: 07/10/13 09:30 Due Date: 07/17/13 00:00 RPT Date: 07/18/13 11:03

Relinquisher by: (Signature) 	Date: 7/9/13	Time: 715	Received by: (Signature) 	Samples returned via: FedEx UPS Other 504006355826	Condition (lab use only)  MS
Relinquisher by: (Signature) 	Date:	Time:	Received by: (Signature) 	Temp: 32	Bottles Received: 4-402
Relinquisher by: (Signature) 	Date:	Time:	Received for lab by: (Signature) 	Date: 7/10/13	Time: 0930
				COC Seals Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	pH Checked: <input type="checkbox"/> NCF: <input type="checkbox"/>



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Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Monday October 07, 2013

Report Number: L660209


Samples Received: 09/27/13

Client Project: 4025

Description: 4025-Site Clearance

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,
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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

October 07, 2013

Date Received : September 27, 2013
Description : 4025-Site Clearance
Sample ID : 092613-4025 BBT-9 FT
Collected By : Shad Johnson
Collection Date : 09/26/13 11:10

ESC Sample # : L660209-01

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	10/03/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/03/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/03/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/03/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/03/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.5		% Rec.	8021/8015	10/03/13	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	10/03/13	5
TPH (GC/FID) High Fraction	5000	80.	mg/kg	3546/DRO	10/05/13	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	10/05/13	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/07/13 20:06 Printed: 10/07/13 20:07



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REPORT OF ANALYSIS

October 07, 2013

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

ESC Sample # : L660209-02

Date Received : September 27, 2013
Description : 4025-Site Clearance
Sample ID : 092613-4025 ETS-3-9 IN
Collected By : Shad Johnson
Collection Date : 09/26/13 11:25

Site ID : 4025

Project # : 4025

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	10/03/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/03/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/03/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/03/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/03/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.4		% Rec.	8021/8015	10/03/13	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	10/03/13	5
TPH (GC/FID) High Fraction	380	20.	mg/kg	3546/DRO	10/05/13	5
Surrogate recovery(%)						
o-Terphenyl	86.2		% Rec.	3546/DRO	10/05/13	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/07/13 20:06 Printed: 10/07/13 20:07

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L660209-01	WG684882	SAMP	o-Terphenyl	R2837380	J7

Attachment B
Explanation of QC Qualifier Codes

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

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Summary of Remarks For Samples Printed
10/07/13 at 20:07:13

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L660209-01 Account: ENCARNCO Received: 09/27/13 09:30 Due Date: 10/04/13 00:00 RPT Date: 10/07/13 20:06

Sample: L660209-02 Account: ENCARNCO Received: 09/27/13 09:30 Due Date: 10/04/13 00:00 RPT Date: 10/07/13 20:06

