



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

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Monday August 22, 2011

Report Number: L531618


Samples Received: 08/18/11

Client Project:

Description: Spill 9122

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Blake Ford
 EnCana Oil & Gas - Rangely, CO
 1125 Escalante Drive
 Rangely, CO 81648-3600

August 22, 2011

Date Received : August 18, 2011
 Description : Spill 9122
 Sample ID : 9122-S SPOILS 1 081611 3 FT
 Collected By : Blake Ford
 Collection Date : 08/16/11 14:50

ESC Sample # : L531618-01
 Site ID :
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	08/19/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/19/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/19/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/19/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	08/19/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.9		% Rec.	8021/8015	08/19/11	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	08/19/11	5
TPH (GC/FID) High Fraction	4.8	4.0	mg/kg	3546/DRO	08/19/11	1
Surrogate recovery(%)						
o-Terphenyl	53.7		% Rec.	3546/DRO	08/19/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 08/22/11 14:12 Printed: 08/22/11 14:13



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REPORT OF ANALYSIS

Blake Ford
 EnCana Oil & Gas - Rangely, CO
 1125 Escalante Drive
 Rangely, CO 81648-3600

August 22, 2011

Date Received : August 18, 2011
 Description : Spill 9122
 Sample ID : 9122-S SPOILS 2 081611 3 FT
 Collected By : Blake Ford
 Collection Date : 08/16/11 15:01

ESC Sample # : L531618-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	08/19/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/19/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/19/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/19/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	08/19/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.3		% Rec.	8021/8015	08/19/11	5
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	08/19/11	5
TPH (GC/FID) High Fraction	15.	4.0	mg/kg	3546/DRO	08/19/11	1
Surrogate recovery(%)						
o-Terphenyl	62.1		% Rec.	3546/DRO	08/19/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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

August 22, 2011

Date Received : August 18, 2011
 Description : Spill 9122
 Sample ID : 9122-E SPOILS 1 081611 3 FT
 Collected By : Blake Ford
 Collection Date : 08/16/11 15:15

ESC Sample # : L531618-03
 Site ID :
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	08/19/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/19/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/19/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/19/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	08/19/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.4		% Rec.	8021/8015	08/19/11	5
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	08/19/11	5
TPH (GC/FID) High Fraction	4.6	4.0	mg/kg	3546/DRO	08/19/11	1
Surrogate recovery(%)						
o-Terphenyl	64.9		% Rec.	3546/DRO	08/19/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Blake Ford
 EnCana Oil & Gas - Rangely, CO
 1125 Escalante Drive
 Rangely, CO 81648-3600

August 22, 2011

Date Received : August 18, 2011
 Description : Spill 9122
 Sample ID : 9122-E SPOILS 2 081611 3 FT
 Collected By : Blake Ford
 Collection Date : 08/16/11 15:22

ESC Sample # : L531618-04
 Site ID :
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	08/19/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/19/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/19/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/19/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	08/19/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.3		% Rec.	8021/8015	08/19/11	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	08/19/11	5
TPH (GC/FID) High Fraction	5.4	4.0	mg/kg	3546/DRO	08/19/11	1
Surrogate recovery(%)						
o-Terphenyl	64.3		% Rec.	3546/DRO	08/19/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 08/22/11 14:12 Printed: 08/22/11 14:13

Summary of Remarks For Samples Printed
08/22/11 at 14:13:10

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L531618-01 Account: ENCANRCO Received: 08/18/11 09:00 Due Date: 08/22/11 00:00 RPT Date: 08/22/11 14:12
NU
Sample: L531618-02 Account: ENCANRCO Received: 08/18/11 09:00 Due Date: 08/22/11 00:00 RPT Date: 08/22/11 14:12
NU
Sample: L531618-03 Account: ENCANRCO Received: 08/18/11 09:00 Due Date: 08/22/11 00:00 RPT Date: 08/22/11 14:12
NU
Sample: L531618-04 Account: ENCANRCO Received: 08/18/11 09:00 Due Date: 08/22/11 00:00 RPT Date: 08/22/11 14:12
NU



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Quality Assurance Report
 Level II

L531618

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August 22, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG551120	08/18/11 17:37
Ethylbenzene	< .0005	mg/kg			WG551120	08/18/11 17:37
Toluene	< .005	mg/kg			WG551120	08/18/11 17:37
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG551120	08/18/11 17:37
Total Xylene	< .0015	mg/kg			WG551120	08/18/11 17:37
a,a,a-Trifluorotoluene(FID)		% Rec.	96.95	59-128	WG551120	08/18/11 17:37
a,a,a-Trifluorotoluene(PID)		% Rec.	107.0	54-144	WG551120	08/18/11 17:37
TPH (GC/FID) High Fraction	< 4	ppm			WG551163	08/19/11 09:22
o-Terphenyl		% Rec.	84.66	50-150	WG551163	08/19/11 09:22

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0406	81.2	76-113	WG551120
Ethylbenzene	mg/kg	.05	0.0442	88.5	78-115	WG551120
Toluene	mg/kg	.05	0.0424	84.8	76-114	WG551120
Total Xylene	mg/kg	.15	0.129	86.2	81-118	WG551120
a,a,a-Trifluorotoluene(PID)				104.8	54-144	WG551120
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.06	110.	67-135	WG551120
a,a,a-Trifluorotoluene(FID)				103.3	59-128	WG551120
TPH (GC/FID) High Fraction	ppm	60	49.9	83.2	50-150	WG551163
o-Terphenyl				75.49	50-150	WG551163

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0492	0.0406	98.0	76-113	19.2	20	WG551120
Ethylbenzene	mg/kg	0.0534	0.0442	107.	78-115	18.8	20	WG551120
Toluene	mg/kg	0.0511	0.0424	102.	76-114	18.7	20	WG551120
Total Xylene	mg/kg	0.156	0.129	104.	81-118	19.0	20	WG551120
a,a,a-Trifluorotoluene(PID)				105.6	54-144			WG551120
TPH (GC/FID) Low Fraction	mg/kg	6.17	6.06	112.	67-135	1.80	20	WG551120
a,a,a-Trifluorotoluene(FID)				102.8	59-128			WG551120
TPH (GC/FID) High Fraction	ppm	52.2	49.9	87.0	50-150	4.51	25	WG551163
o-Terphenyl				77.45	50-150			WG551163

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.146	0	.05	58.6	32-137	L531252-03	WG551120
Ethylbenzene	mg/kg	0.159	0	.05	63.6	10-150	L531252-03	WG551120
Toluene	mg/kg	0.159	0	.05	63.6	20-142	L531252-03	WG551120
Total Xylene	mg/kg	0.469	0	.15	62.6	16-141	L531252-03	WG551120
a,a,a-Trifluorotoluene(PID)					104.7	54-144		WG551120
TPH (GC/FID) Low Fraction	mg/kg	24.5	0	5.5	89.1	55-109	L531252-03	WG551120
a,a,a-Trifluorotoluene(FID)					101.9	59-128		WG551120
TPH (GC/FID) High Fraction	ppm	1660	1400	60	429.*	50-150	L531436-07	WG551163
o-Terphenyl					85.84	50-150		WG551163

* Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Quality Assurance Report
 Level II

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.230	0.146	92.0	32-137	44.4*	39	L531252-03	WG551120
Ethylbenzene	mg/kg	0.245	0.159	98.1	10-150	42.7	44	L531252-03	WG551120
Toluene	mg/kg	0.237	0.159	94.6	20-142	39.2	42	L531252-03	WG551120
Total Xylene	mg/kg	0.716	0.469	95.5	16-141	41.7	46	L531252-03	WG551120
a,a,a-Trifluorotoluene(PID)				106.4	54-144				WG551120
TPH (GC/FID) Low Fraction	mg/kg	25.1	24.5	91.2	55-109	2.31	20	L531252-03	WG551120
a,a,a-Trifluorotoluene(FID)				101.3	59-128				WG551120
TPH (GC/FID) High Fraction	ppm	1610	1660	34.3*	50-150	3.14	25	L531436-07	WG551163
o-Terphenyl				112.2	50-150				WG551163

Batch number /Run number / Sample number cross reference

WG551120: R1819610: L531618-01 02 03 04
 WG551163: R1820631: L531618-01 02 03 04

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Encana Oil and Gas (USA) Inc.
Hells Hole 9122
API # 109-09984
Spill Tracking # 2605298





Hells Hole 9122
API # 103-09984
Spill Tracking # 2605298

