



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

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Sunday September 18, 2011

Report Number: L536165

Samples Received: 09/15/11

Client Project:

Description: N22 Backgrounds

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:

Jayred 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

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

September 18, 2011

Date Received : September 15, 2011
Description : N22 Backgrounds
Sample ID : N22-BGNW-091411 6-8 IN
Collected By : Brennan Graff
Collection Date : 09/14/11 10:52

ESC Sample # : L536165-01

Site ID : N22

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	1.7	1.0	mg/kg	6010B	09/16/11	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: 09/18/11 09:55 Printed: 09/18/11 09:55



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September 18, 2011

Date Received : September 15, 2011
Description : N22 Backgrounds
Sample ID : N22-BGN-091411 6-8 IN
Collected By : Brennan Graff
Collection Date : 09/14/11 10:58

ESC Sample # : L536165-02

Site ID : N22

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.1	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 09/18/11 09:55 Printed: 09/18/11 09:55



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September 18, 2011

Date Received : September 15, 2011
Description : N22 Backgrounds
Sample ID : N22-BGE-091411 10-12 IN
Collected By : Brennan Graff
Collection Date : 09/14/11 11:05

ESC Sample # : L536165-03

Site ID : N22

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.3	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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September 18, 2011

Date Received : September 15, 2011
Description : N22 Backgrounds
Sample ID : N22-BGSW-091411 12-14 IN
Collected By : Brennan Graff
Collection Date : 09/14/11 11:15

ESC Sample # : L536165-04

Site ID : N22

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.4	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 09/18/11 09:55 Printed: 09/18/11 09:55



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September 18, 2011

Date Received : September 15, 2011
Description : N22 Backgrounds
Sample ID : N22-BGW-091411 10-12 IN
Collected By : Brennan Graff
Collection Date : 09/14/11 11:21

ESC Sample # : L536165-05

Site ID : N22

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.5	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 09/18/11 09:55 Printed: 09/18/11 09:55

Summary of Remarks For Samples Printed
09/18/11 at 09:55:48

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L536165-01 Account: ENCANACO Received: 09/15/11 09:00 Due Date: 09/19/11 00:00 RPT Date: 09/18/11 09:55
Sample: L536165-02 Account: ENCANACO Received: 09/15/11 09:00 Due Date: 09/19/11 00:00 RPT Date: 09/18/11 09:55
Sample: L536165-03 Account: ENCANACO Received: 09/15/11 09:00 Due Date: 09/19/11 00:00 RPT Date: 09/18/11 09:55
Sample: L536165-04 Account: ENCANACO Received: 09/15/11 09:00 Due Date: 09/19/11 00:00 RPT Date: 09/18/11 09:55
Sample: L536165-05 Account: ENCANACO Received: 09/15/11 09:00 Due Date: 09/19/11 00:00 RPT Date: 09/18/11 09:55



YOUR LAB OF CHOICE

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Chris Hines / Jake Harris
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Quality Assurance Report
Level II

L536165

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September 18, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Arsenic	< 1	mg/kg			WG555378	09/16/11 13:41

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Arsenic	mg/kg	3.70	3.60	3.01	20	L536166-01	WG555378

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Arsenic	mg/kg	92.6	91.9	99.2	82.9-117	WG555378

Analyte	Units	Matrix Spike		% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res				
Arsenic	mg/kg	48.0	3.60	50	88.8	75-125	L536166-01

Analyte	Units	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec				
Arsenic	mg/kg	49.2	48.0	91.2	75-125	2.47	20	L536166-01

Batch number /Run number / Sample number cross reference

WG555378: R1861975: L536165-01 02 03 04 05

* * 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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Level II

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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.