



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 or Brad Kieding  
EnCana Oil & Gas Inc. - CO  
2717 County Road 215, Suite 100  
Parachute, CO 81635

### Report Summary

Monday November 15, 2010

Report Number: L487377

Samples Received: 11/04/10

Client Project: E09

Description: E09

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.

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.



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REPORT OF ANALYSIS

Chris Hines or Brad Kieding  
EnCana Oil & Gas Inc. - CO  
2717 County Road 215, Suite 100  
Parachute, CO 81635

November 15, 2010

Date Received : November 04, 2010  
Description : E09

Sample ID : E09-SEB-11210

Collected By : Jake Harris  
Collection Date : 11/02/10 09:40

ESC Sample # : L487377-01

Site ID :

Project # : E09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	5.0	mg/kg	6010B	11/13/10	5

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: 11/14/10 08:27 Revised: 11/15/10 11:47



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November 15, 2010

Date Received : November 04, 2010  
Description : E09

Sample ID : E09-EB-11210

Collected By : Jake Harris  
Collection Date : 11/02/10 09:10

ESC Sample # : L487377-02

Site ID :

Project # : E09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	17.	5.0	mg/kg	6010B	11/13/10	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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November 15, 2010

Date Received : November 04, 2010  
Description : E09

Sample ID : E09-SB-11210

Collected By : Jake Harris  
Collection Date : 11/02/10 09:50

ESC Sample # : L487377-03

Site ID :

Project # : E09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	22.	5.0	mg/kg	6010B	11/13/10	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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November 15, 2010

Date Received : November 04, 2010  
Description : E09

Sample ID : E09-NB-11210

Collected By : Jake Harris  
Collection Date : 11/02/10 09:20

ESC Sample # : L487377-04

Site ID :

Project # : E09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	23.	5.0	mg/kg	6010B	11/13/10	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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November 15, 2010

Date Received : November 04, 2010  
Description : E09

Sample ID : E09-EBC-11210

Collected By : Jake Harris  
Collection Date : 11/02/10 09:30

ESC Sample # : L487377-05

Site ID :

Project # : E09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	15.	5.0	mg/kg	6010B	11/13/10	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/14/10 08:27 Revised: 11/15/10 11:47

Summary of Remarks For Samples Printed  
11/15/10 at 11:47:31

TSR Signing Reports: 358  
R5 - Desired TAT

Log all samples beginning with different sample numbers to separate reports. Ex.- M34 N PIT and M34 S PIT go on one L#, but M34 S PIT and E34 S PIT go on separate L #s. Log project # as project name.

Sample: L487377-01 Account: ENCANACO Received: 11/04/10 09:00 Due Date: 11/11/10 00:00 RPT Date: 11/14/10 08:27

Sample: L487377-02 Account: ENCANACO Received: 11/04/10 09:00 Due Date: 11/11/10 00:00 RPT Date: 11/14/10 08:27

Sample: L487377-03 Account: ENCANACO Received: 11/04/10 09:00 Due Date: 11/11/10 00:00 RPT Date: 11/14/10 08:27

Sample: L487377-04 Account: ENCANACO Received: 11/04/10 09:00 Due Date: 11/11/10 00:00 RPT Date: 11/14/10 08:27

Sample: L487377-05 Account: ENCANACO Received: 11/04/10 09:00 Due Date: 11/11/10 00:00 RPT Date: 11/14/10 08:27



YOUR LAB OF CHOICE

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Quality Assurance Report  
Level II

L487377

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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed			
		Units	% Rec						
Arsenic	< 1	mg/kg			WG507473	11/13/10 12:40			
Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch		
		Result	Duplicate						
Arsenic	mg/kg	8.40	8.80	4.06	20	L487403-04	WG507473		
Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch			
		Known Val	Result						
Arsenic	mg/kg	192	174.	90.6	78.6-120.8	WG507473			
Analyte	Units	Matrix Spike		% Rec	Limit	Ref Samp	Batch		
		MS Res	Ref Res						
Arsenic	mg/kg	53.5	8.80	50	89.4	75-125	L487403-04	WG507473	
Analyte	Units	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch	
		MSD	Ref						
Arsenic	mg/kg	52.6	53.5	87.6	75-125	1.70	20	L487403-04	WG507473

Batch number /Run number / Sample number cross reference

WG507473: R1471789: L487377-01 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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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.