



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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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

Friday July 15, 2011

Report Number: L525416

Samples Received: 07/12/11

Client Project:

Description: P27 Background

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

July 15, 2011

Date Received : July 12, 2011
Description : P27 Background
Sample ID : P27-BGN-070711 10-12IN
Collected By : Brennen Graff
Collection Date : 07/07/11 13:43

ESC Sample # : L525416-01

Site ID : P27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	27.	2.0	mg/kg	6010B	07/14/11	2

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: 07/15/11 11:35 Printed: 07/15/11 12:53



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July 15, 2011

Date Received : July 12, 2011
Description : P27 Background
Sample ID : P27-BGNE-070711 8-10IN
Collected By : Brennen Graff
Collection Date : 07/07/11 13:50

ESC Sample # : L525416-02

Site ID : P27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	24.	5.0	mg/kg	6010B	07/14/11	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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July 15, 2011

Date Received : July 12, 2011
Description : P27 Background
Sample ID : P27-BGE-070711 8-10IN
Collected By : Brennen Graff
Collection Date : 07/07/11 13:56

ESC Sample # : L525416-03

Site ID : P27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	25.	2.0	mg/kg	6010B	07/14/11	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Parachute, CO 81635

July 15, 2011

Date Received : July 12, 2011
Description : P27 Background
Sample ID : P27-BGSE-070711 10-12IN
Collected By : Brennen Graff
Collection Date : 07/07/11 14:02

ESC Sample # : L525416-04

Site ID : P27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	32.	1.0	mg/kg	6010B	07/14/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/15/11 11:35 Printed: 07/15/11 12:53

Summary of Remarks For Samples Printed
07/15/11 at 12:53:48

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L525416-01 Account: ENCANACO Received: 07/12/11 09:00 Due Date: 07/19/11 00:00 RPT Date: 07/15/11 11:35
Sample: L525416-02 Account: ENCANACO Received: 07/12/11 09:00 Due Date: 07/19/11 00:00 RPT Date: 07/15/11 11:35
Sample: L525416-03 Account: ENCANACO Received: 07/12/11 09:00 Due Date: 07/19/11 00:00 RPT Date: 07/15/11 11:35
Sample: L525416-04 Account: ENCANACO Received: 07/12/11 09:00 Due Date: 07/19/11 00:00 RPT Date: 07/15/11 11:35



YOUR LAB OF CHOICE

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

Parachute, CO 81635

Quality Assurance Report
Level II

L525416

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July 15, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed			
		Units	% Rec						
Arsenic	< 1	mg/kg			WG545403	07/14/11 11:52			
Arsenic	< 1	mg/kg			WG545258	07/14/11 18:01			
Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch		
		Result	Duplicate						
Arsenic	mg/kg	0.770	1.20	43.9*	20	L525589-10	WG545403		
Arsenic	mg/kg	0	0	0	20	L525459-10	WG545258		
Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch			
		Known Val	Result						
Arsenic	mg/kg	192	181.	94.3	78.6-120.8	WG545403			
Arsenic	mg/kg	192	188.	97.9	78.6-120.8	WG545258			
Analyte	Units	Matrix Spike		% Rec	Limit	Ref Samp	Batch		
		MS Res	Ref Res						
Arsenic	mg/kg	49.4	1.20	50	96.4	75-125	L525589-10	WG545403	
Arsenic	mg/kg	45.9	0	10	91.8	75-125	L525459-10	WG545258	
Analyte	Units	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch	
		MSD	Ref %Rec						
Arsenic	mg/kg	46.9	49.4	91.4	75-125	5.19	20	L525589-10	WG545403
Arsenic	mg/kg	43.7	45.9	87.4	75-125	4.91	20	L525459-10	WG545258

Batch number /Run number / Sample number cross reference

WG545403: R1762570: L525416-04
WG545258: R1764650: L525416-01 02 03

* * 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.