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Tax I.D. 62-0814289

Est. 1970

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

Report Summary

Friday November 14, 2008

Report Number: L372315

Samples Received: 10/30/08

Client Project: 8720.498 08103524

Description: D8E CBM Pipeline

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:

John D. Blackman, 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, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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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

Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

November 14, 2008

Date Received : October 30, 2008
Description : D8E CBM Pipeline

Sample ID : COVEY 2

Collected By : Brett Middleton
Collection Date : 10/29/08 00:00

ESC Sample # : L372315-01

Site ID :

Project # : 8720.498 08103524

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	BDL	1.0	mg/l	9056	10/30/08	1
Chloride	20.	1.0	mg/l	9056	10/30/08	1
Fluoride	0.35	0.10	mg/l	9056	10/30/08	1
Nitrate	7.0	0.10	mg/l	9056	10/30/08	1
Nitrite	0.14	0.10	mg/l	9056	10/30/08	1
Sulfate	220	10.	mg/l	9056	10/31/08	2
Alkalinity	550	30.	mg/l	2320B	11/06/08	3
Alkalinity,Bicarbonate	550	10.	mg/l	2320B	11/06/08	1
Alkalinity,Carbonate	BDL	10.	mg/l	2320B	11/06/08	1
Methane	BDL	0.010	mg/l	3810/RSK175	10/30/08	1
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	11/04/08	1
pH	8.4		su	9040C	10/30/08	1
Sulfide	BDL	0.050	mg/l	4500-S2 D	10/31/08	1
Specific Conductance	1500		umhos/cm	9050A	11/03/08	1
Dissolved Solids	910	10.	mg/l	2540C	11/04/08	1
Arsenic,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Barium,Dissolved	0.071	0.0050	mg/l	6010B	11/09/08	1
Cadmium,Dissolved	BDL	0.0050	mg/l	6010B	11/09/08	1
Calcium,Dissolved	51.	0.50	mg/l	6010B	11/09/08	1
Chromium,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Copper,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Iron,Dissolved	BDL	0.10	mg/l	6010B	11/09/08	1
Lead,Dissolved	BDL	0.0050	mg/l	6010B	11/09/08	1
Magnesium,Dissolved	110	0.10	mg/l	6010B	11/09/08	1
Manganese,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Potassium,Dissolved	8.7	0.50	mg/l	6010B	11/09/08	1
Selenium,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Silver,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Sodium,Dissolved	120	0.50	mg/l	6010B	11/09/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	11/02/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/02/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/02/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	11/02/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8021/8015	11/02/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	TNGRO	11/02/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L372315-01 (PH) - 8.4@14.3c



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November 14, 2008

Date Received : October 30, 2008
Description : D8E CBM Pipeline

Sample ID : COVEY 2

Collected By : Brett Middleton
Collection Date : 10/29/08 00:00

ESC Sample # : L372315-01

Site ID :

Project # : 8720.498 08103524

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	11/02/08	1
a,a,a-Trifluorotoluene(PID)	109.		% Rec.	8021/8015	11/02/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L372315-01 (PH) - 8.4@14.3c



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Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

November 14, 2008

Date Received : October 30, 2008
Description : D8E CBM Pipeline

Sample ID : MAMM JENKINS 2

Collected By : Brett Middleton
Collection Date : 10/29/08 00:00

ESC Sample # : L372315-57

Site ID :

Project # : 8720.498 08103524

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	BDL	1.0	mg/l	9056	10/30/08	1
Chloride	26.	1.0	mg/l	9056	10/30/08	1
Fluoride	0.40	0.10	mg/l	9056	10/30/08	1
Nitrate	2.9	0.10	mg/l	9056	10/30/08	1
Nitrite	0.14	0.10	mg/l	9056	10/30/08	1
Sulfate	250	10.	mg/l	9056	10/31/08	2
Alkalinity	390	20.	mg/l	2320B	11/06/08	2
Alkalinity,Bicarbonate	390	10.	mg/l	2320B	11/06/08	1
Alkalinity,Carbonate	BDL	10.	mg/l	2320B	11/06/08	1
Methane	BDL	0.010	mg/l	3810/RSK175	10/30/08	1
Ammonia Nitrogen	0.32	0.10	mg/l	350.1	11/04/08	1
pH	8.5		su	9040C	10/30/08	1
Sulfide	BDL	0.050	mg/l	4500-S2 D	10/31/08	1
Specific Conductance	1600		umhos/cm	9050A	11/03/08	1
Dissolved Solids	1000	10.	mg/l	2540C	11/04/08	1
Arsenic,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Barium,Dissolved	0.057	0.0050	mg/l	6010B	11/09/08	1
Cadmium,Dissolved	BDL	0.0050	mg/l	6010B	11/09/08	1
Calcium,Dissolved	52.	0.50	mg/l	6010B	11/09/08	1
Chromium,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Copper,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Iron,Dissolved	BDL	0.10	mg/l	6010B	11/09/08	1
Lead,Dissolved	BDL	0.0050	mg/l	6010B	11/09/08	1
Magnesium,Dissolved	70.	0.10	mg/l	6010B	11/09/08	1
Manganese,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Potassium,Dissolved	3.8	0.50	mg/l	6010B	11/09/08	1
Selenium,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Silver,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Sodium,Dissolved	230	0.50	mg/l	6010B	11/09/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	11/02/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/02/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/02/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	11/02/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8021/8015	11/02/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	TNGRO	11/02/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L372315-57 (PH) - 8.5@13.2c



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REPORT OF ANALYSIS

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Parachute, CO 81635

November 14, 2008

Date Received : October 30, 2008
Description : D8E CBM Pipeline
Sample ID : MAMM JENKINS 2
Collected By : Brett Middleton
Collection Date : 10/29/08 00:00

ESC Sample # : L372315-57

Site ID :

Project # : 8720.498 08103524

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	104.		% Rec.	8021/8015	11/02/08	1
a,a,a-Trifluorotoluene(PID)	111.		% Rec.	8021/8015	11/02/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L372315-57 (PH) - 8.5@13.2c



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Parachute, CO 81635

November 14, 2008

Date Received : October 30, 2008
Description : D8E CBM Pipeline

Sample ID : MAMM BARRETT 2

Collected By : Brett Middleton
Collection Date : 10/29/08 00:00

ESC Sample # : L372315-58

Site ID :

Project # : 8720.498 08103524

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	BDL	1.0	mg/l	9056	10/30/08	1
Chloride	40.	1.0	mg/l	9056	10/30/08	1
Fluoride	0.41	0.10	mg/l	9056	10/30/08	1
Nitrate	3.0	0.10	mg/l	9056	10/30/08	1
Nitrite	0.11	0.10	mg/l	9056	10/30/08	1
Sulfate	500	25.	mg/l	9056	11/01/08	5
Alkalinity	690	30.	mg/l	2320B	11/06/08	3
Alkalinity,Bicarbonate	690	10.	mg/l	2320B	11/06/08	1
Alkalinity,Carbonate	BDL	10.	mg/l	2320B	11/06/08	1
Methane	BDL	0.010	mg/l	3810/RSK175	10/30/08	1
Ammonia Nitrogen	0.32	0.10	mg/l	350.1	11/04/08	1
pH	8.5		su	9040C	10/30/08	1
Sulfide	BDL	0.050	mg/l	4500-S2 D	10/31/08	1
Specific Conductance	2000		umhos/cm	9050A	11/03/08	1
Dissolved Solids	1400	10.	mg/l	2540C	11/04/08	1
Arsenic,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Barium,Dissolved	0.052	0.0050	mg/l	6010B	11/09/08	1
Cadmium,Dissolved	BDL	0.0050	mg/l	6010B	11/09/08	1
Calcium,Dissolved	61.	0.50	mg/l	6010B	11/09/08	1
Chromium,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Copper,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Iron,Dissolved	BDL	0.10	mg/l	6010B	11/09/08	1
Lead,Dissolved	BDL	0.0050	mg/l	6010B	11/09/08	1
Magnesium,Dissolved	92.	0.10	mg/l	6010B	11/09/08	1
Manganese,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Potassium,Dissolved	4.7	0.50	mg/l	6010B	11/09/08	1
Selenium,Dissolved	BDL	0.020	mg/l	6010B	11/09/08	1
Silver,Dissolved	BDL	0.010	mg/l	6010B	11/09/08	1
Sodium,Dissolved	280	0.50	mg/l	6010B	11/09/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	11/02/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/02/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/02/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	11/02/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8021/8015	11/02/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	TNGRO	11/02/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L372315-58 (PH) - 8.5@12.9c



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November 14, 2008

Date Received : October 30, 2008
Description : D8E CBM Pipeline

Sample ID : MAMM BARRETT 2

Collected By : Brett Middleton
Collection Date : 10/29/08 00:00

ESC Sample # : L372315-58

Site ID :

Project # : 8720.498 08103524

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	11/02/08	1
a,a,a-Trifluorotoluene(PID)	111.		% Rec.	8021/8015	11/02/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L372315-58 (PH) - 8.5@12.9c



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Brad Kieding
Encana
2717 Co. Rd. 215
Parachute, CO 81635

November 14, 2008

Date Received : October 30, 2008
Description : D8E CBM Pipeline

Sample ID : MAMM AIRPORT 2

Collected By : Brett Middleton
Collection Date : 10/29/08 00:00

ESC Sample # : L372315-59

Site ID :

Project # : 8720.498 08103524

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	BDL	1.0	mg/l	9056	10/30/08	1
Chloride	42.	1.0	mg/l	9056	10/30/08	1
Fluoride	0.39	0.10	mg/l	9056	10/30/08	1
Nitrate	3.3	0.10	mg/l	9056	10/30/08	1
Nitrite	0.12	0.10	mg/l	9056	10/30/08	1
Sulfate	530	25.	mg/l	9056	11/01/08	5
Alkalinity	590	30.	mg/l	2320B	11/06/08	3
Alkalinity,Bicarbonate	590	10.	mg/l	2320B	11/06/08	1
Alkalinity,Carbonate	BDL	10.	mg/l	2320B	11/06/08	1
Methane	BDL	0.010	mg/l	3810/RSK175	10/30/08	1
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	11/04/08	1
pH	8.6		su	9040C	10/30/08	1
Sulfide	BDL	0.050	mg/l	4500-S2 D	10/31/08	1
Specific Conductance	2100		umhos/cm	9050A	11/03/08	1
Dissolved Solids	1400	10.	mg/l	2540C	11/04/08	1
Arsenic,Dissolved	BDL	0.018	mg/l	6010B	11/09/08	.9
Barium,Dissolved	0.047	0.0045	mg/l	6010B	11/09/08	.9
Cadmium,Dissolved	BDL	0.0045	mg/l	6010B	11/09/08	.9
Calcium,Dissolved	59.	0.45	mg/l	6010B	11/09/08	.9
Chromium,Dissolved	BDL	0.0090	mg/l	6010B	11/09/08	.9
Copper,Dissolved	BDL	0.018	mg/l	6010B	11/09/08	.9
Iron,Dissolved	BDL	0.090	mg/l	6010B	11/09/08	.9
Lead,Dissolved	BDL	0.0045	mg/l	6010B	11/09/08	.9
Magnesium,Dissolved	95.	0.090	mg/l	6010B	11/09/08	.9
Manganese,Dissolved	BDL	0.0090	mg/l	6010B	11/09/08	.9
Potassium,Dissolved	4.8	0.45	mg/l	6010B	11/09/08	.9
Selenium,Dissolved	BDL	0.018	mg/l	6010B	11/09/08	.9
Silver,Dissolved	BDL	0.0090	mg/l	6010B	11/09/08	.9
Sodium,Dissolved	280	0.45	mg/l	6010B	11/09/08	.9
Benzene	BDL	0.00050	mg/l	8021/8015	11/02/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/02/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/02/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	11/02/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8021/8015	11/02/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	TNGRO	11/02/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L372315-59 (PH) - 8.6@13.6c



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November 14, 2008

Date Received : October 30, 2008
Description : D8E CBM Pipeline

Sample ID : MAMM AIRPORT 2

Collected By : Brett Middleton
Collection Date : 10/29/08 00:00

ESC Sample # : L372315-59

Site ID :

Project # : 8720.498 08103524

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	11/02/08	1
a,a,a-Trifluorotoluene(PID)	111.		% Rec.	8021/8015	11/02/08	1

BDL - Below Detection Limit

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Reported: Printed: 11/14/08 10:31
L372315-59 (PH) - 8.6@13.6c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L372315-01	WG391422	SAMP	pH	R524585	T8
L372315-57	WG391422	SAMP	pH	R524585	T8
	WG392102	SAMP	Alkalinity	R529185	J5
L372315-58	WG391422	SAMP	pH	R524585	T8
L372315-59	WG391422	SAMP	pH	R524585	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

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
11/14/08 at 10:31:28

TSR Signing Reports: 151
R5 - Desired TAT

Works closely with Cordilleran.Charge Codes: AFE - 4021929; JDE - 8715.692. Put AFE or JDE
after sample ids. 10/4/07 JB.

Sample: L372315-01 Account: ENCRCO Received: 10/30/08 09:00 Due Date: 11/06/08 00:00 RPT Date:

Sample: L372315-57 Account: ENCRCO Received: 10/30/08 09:00 Due Date: 11/06/08 00:00 RPT Date:

Sample: L372315-58 Account: ENCRCO Received: 10/30/08 09:00 Due Date: 11/06/08 00:00 RPT Date:

Sample: L372315-59 Account: ENCRCO Received: 10/30/08 09:00 Due Date: 11/06/08 00:00 RPT Date: