

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT
☒ As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35527	² Pool Code 1039	³ Pool Name ALAMITO - GALLUP
⁴ Property Code 313256	⁵ Property Name LYBROOK M35-2308	⁶ Well Number 02H
⁷ GRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁹ Elevation 6879'

¹⁰ Surface Location

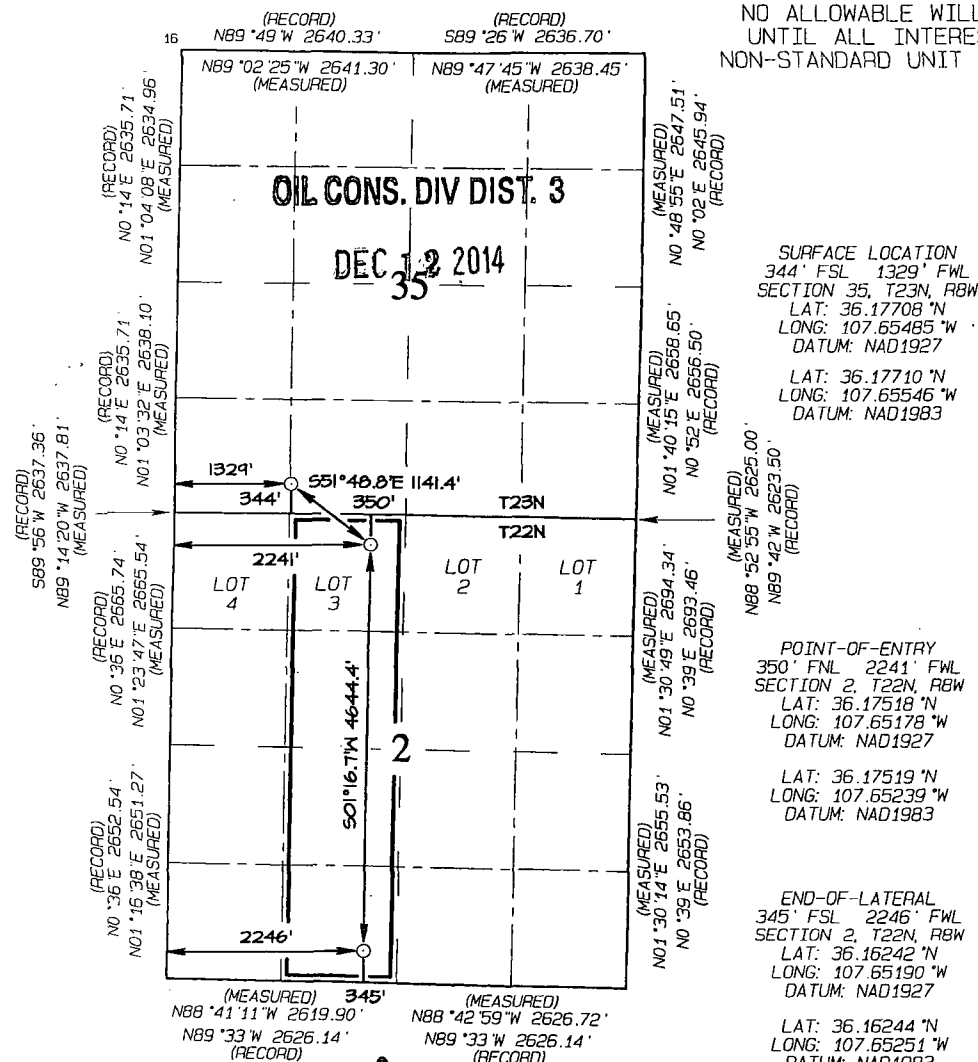
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	23N	8W		344'	SOUTH	1329	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	22N	8W		345	SOUTH	2246	WEST	SAN JUAN

¹² Dedicated Acres 160.70 Acres E/2 W/2 - Section 2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Jessica Gregg* Date: 12/11/14
Printed Name: Jessica Gregg

Printed Name: Jessica.Gregg@encana.com

E-mail Address:

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: NOVEMBER 4, 2014
Survey Date: AUGUST 22, 2012

Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269

AV

14

DEVIATION SURVEYS
Lybrook M35-2308 02H
30-045-35527

MD (Feet)	Inclination (Degree)
335'	0.60
663'	1.10
978'	0.50
1294'	0.60
1610'	0.40
1927'	1.30
2243'	1.50
2559'	1.00
2863'	5.60

OIL CONS. DIV DIST. 3
DEC 12 2014

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Cristi Bauer

Cristi Bauer, Operations Technician

12/11/14

Date

ACKNOWLEDGMENT

State of Colorado
City and County of Denver

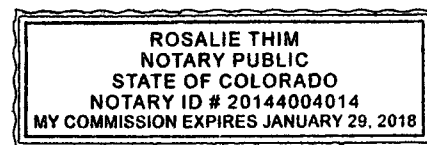
This instrument was acknowledged before me on this ____ day of _____, 2014 by Cristi Bauer as Operations Technician of Encana Oil & Gas (USA) Inc., authorized agent for Encana Oil & Gas (USA) Inc., on behalf of said corporation.

In witness whereof, I hereunto set my hand and official seal.

Notary Public

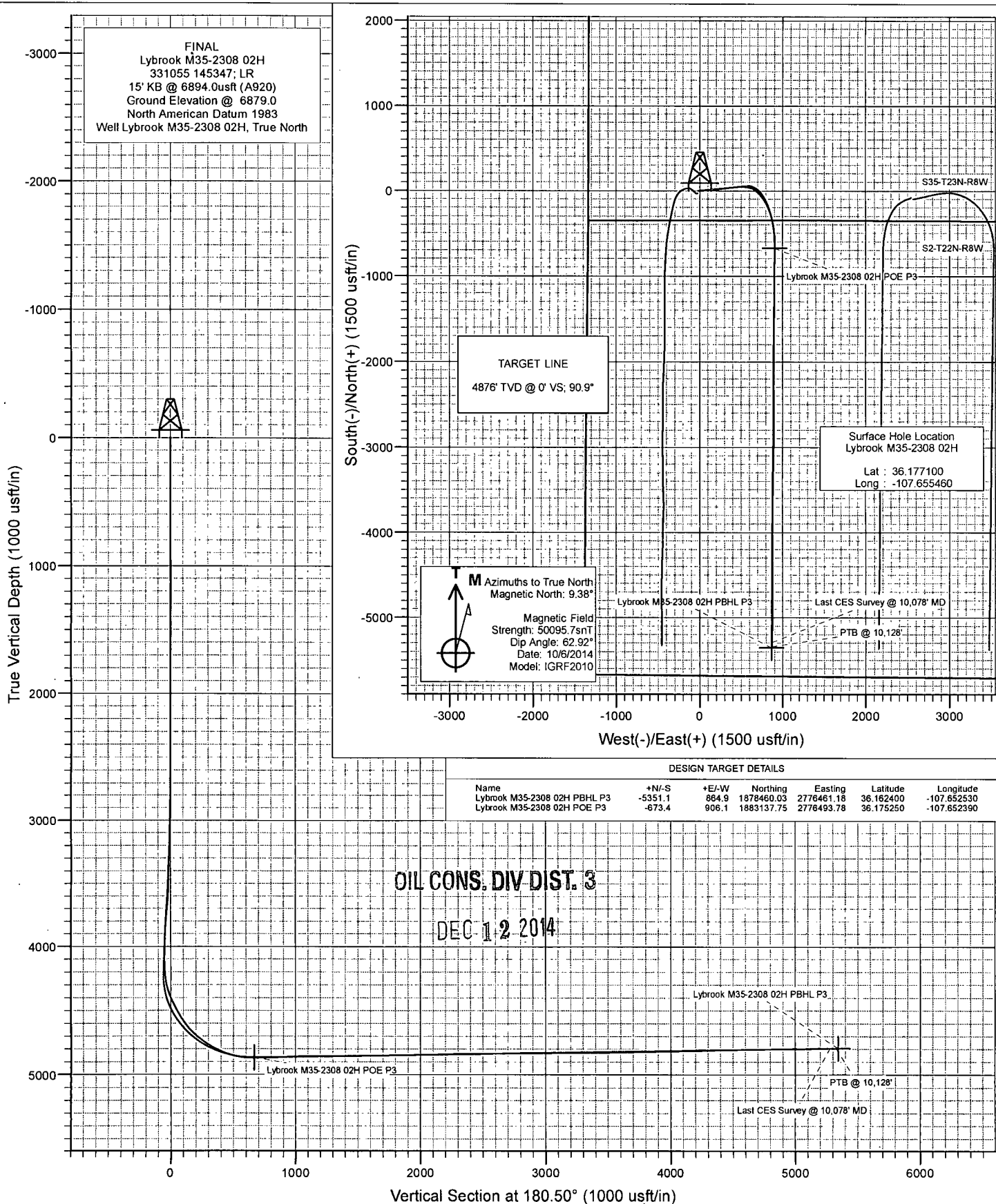
Rosalie Thim

My Commission Expires: *1/29/18*





Project: San Juan County, NM
 Site: S35-T23N-R8W
 Well: Lybrook M35-2308 02H
 Wellbore: Hz
 Design: FINAL



Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	San Juan County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	S35-T23N-R8W				
Site Position:		Northing:	1,883,780.33 usft	Latitude:	36.177020
From:	Lat/Long	Easting:	2,775,554.08 usft	Longitude:	-107.655570
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.10 °

Well	Lybrook M35-2308 02H				
Well Position	+N/-S	0.0 usft	Northing:	1,883,809.51 usft	Latitude: 36.177100
	+E/-W	0.0 usft	Easting:	2,775,586.49 usft	Longitude: -107.655460
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level: 6,879.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/6/2014	9.38	62.92	50,096

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.50	

Survey Program	Date	10/15/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
146.0	10,128.0	Survey #1 (Hz)	Geolink MWD	Geolink MWD	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
146.0	0.10	5.20	146.0	0.1	0.0	-0.1	0.07	0.07	
209.0	0.40	313.70	209.0	0.3	-0.1	-0.3	0.55	0.48	
272.0	0.60	279.40	272.0	0.5	-0.6	-0.5	0.56	0.32	
335.0	0.60	250.70	335.0	0.5	-1.3	-0.5	0.47	0.00	
399.0	0.60	267.60	399.0	0.4	-1.9	-0.3	0.28	0.00	
458.0	0.90	252.30	458.0	0.2	-2.7	-0.2	0.61	0.51	
536.0	0.90	249.80	536.0	-0.2	-3.8	0.2	0.05	0.00	
600.0	0.90	257.90	600.0	-0.5	-4.8	0.5	0.20	0.00	
663.0	1.10	261.70	663.0	-0.7	-5.9	0.7	0.33	0.32	
726.0	1.10	245.10	725.9	-1.0	-7.0	1.1	0.50	0.00	
789.0	1.50	256.90	788.9	-1.4	-8.4	1.5	0.76	0.63	
852.0	1.60	247.90	851.9	-2.0	-10.0	2.1	0.42	0.16	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
915.0	1.70	228.80	914.9	-2.9	-11.5	3.0	0.88	0.16	
978.0	0.50	182.90	977.9	-3.8	-12.2	3.9	2.22	-1.90	
1,042.0	0.50	194.50	1,041.9	-4.3	-12.3	4.5	0.16	0.00	
1,105.0	0.40	104.00	1,104.9	-4.7	-12.2	4.8	1.02	-0.16	
1,168.0	0.90	50.60	1,167.9	-4.4	-11.6	4.5	1.17	0.79	
1,231.0	0.80	68.50	1,230.9	-3.9	-10.8	4.0	0.45	-0.16	
1,294.0	0.60	59.40	1,293.9	-3.6	-10.1	3.7	0.36	-0.32	
1,358.0	0.60	55.10	1,357.8	-3.2	-9.5	3.3	0.07	0.00	
1,421.0	1.00	66.50	1,420.8	-2.8	-8.7	2.9	0.68	0.63	
1,484.0	0.90	68.20	1,483.8	-2.4	-7.8	2.5	0.16	-0.16	
1,547.0	0.40	89.40	1,546.8	-2.2	-7.1	2.3	0.87	-0.79	
1,610.0	0.40	138.10	1,609.8	-2.4	-6.7	2.5	0.52	0.00	
1,674.0	0.30	166.50	1,673.8	-2.7	-6.5	2.8	0.31	-0.16	
1,737.0	0.20	240.40	1,736.8	-2.9	-6.6	3.0	0.49	-0.16	
1,800.0	0.50	63.40	1,799.8	-2.9	-6.5	2.9	1.11	0.48	
1,863.0	1.40	61.40	1,862.8	-2.4	-5.5	2.4	1.43	1.43	
1,927.0	1.30	81.90	1,926.8	-1.9	-4.1	1.9	0.77	-0.16	
1,990.0	1.50	73.50	1,989.8	-1.6	-2.6	1.6	0.45	0.32	
2,053.0	1.10	77.90	2,052.8	-1.2	-1.2	1.2	0.65	-0.63	
2,116.0	1.40	92.60	2,115.7	-1.1	0.1	1.1	0.69	0.48	
2,180.0	1.60	83.30	2,179.7	-1.1	1.8	1.0	0.49	0.31	
2,243.0	1.50	92.40	2,242.7	-1.0	3.5	1.0	0.42	-0.16	
2,307.0	1.10	81.20	2,306.7	-0.9	4.9	0.9	0.74	-0.62	
2,369.0	1.10	162.40	2,368.7	-1.4	5.7	1.4	2.31	0.00	
2,433.0	0.80	224.40	2,432.7	-2.3	5.6	2.3	1.58	-0.47	
2,496.0	1.20	292.00	2,495.7	-2.4	4.6	2.3	1.84	0.63	
2,559.0	1.00	282.80	2,558.7	-2.0	3.5	2.0	0.42	-0.32	
2,620.0	0.30	112.70	2,619.6	-2.0	3.1	1.9	2.13	-1.15	
2,681.0	3.10	84.30	2,680.6	-1.8	4.9	1.8	4.66	4.59	
2,741.0	5.10	83.00	2,740.5	-1.4	9.2	1.3	3.34	3.33	
2,802.0	4.20	94.60	2,801.3	-1.2	14.1	1.1	2.13	-1.48	
2,863.0	5.60	95.30	2,862.0	-1.7	19.3	1.5	2.30	2.30	
2,924.0	7.40	81.60	2,922.6	-1.4	26.1	1.1	3.88	2.95	
2,985.0	9.10	82.00	2,983.0	-0.1	34.8	-0.2	2.79	2.79	
3,045.0	11.80	82.80	3,042.0	1.3	45.6	-1.7	4.51	4.50	
3,106.0	14.10	82.50	3,101.5	3.1	59.1	-3.6	3.77	3.77	
3,166.0	16.40	81.50	3,159.3	5.3	74.8	-5.9	3.86	3.83	
3,227.0	17.80	81.30	3,217.6	7.9	92.5	-8.8	2.30	2.30	
3,287.0	19.20	82.90	3,274.5	10.6	111.4	-11.5	2.48	2.33	
3,348.0	21.10	87.80	3,331.8	12.2	132.3	-13.4	4.16	3.11	
3,409.0	22.60	90.10	3,388.4	12.6	155.0	-14.0	2.83	2.46	
3,469.0	23.10	88.70	3,443.7	12.9	178.3	-14.4	1.23	0.83	
3,530.0	24.40	87.60	3,499.5	13.7	202.8	-15.4	2.25	2.13	
3,591.0	28.60	85.90	3,554.1	15.2	230.0	-17.2	7.00	6.89	
3,651.0	30.20	81.50	3,606.4	18.5	259.3	-20.8	4.48	2.67	
3,712.0	28.70	80.30	3,659.5	23.2	288.9	-25.8	2.64	-2.46	
3,775.0	28.90	80.20	3,714.7	28.4	318.8	-31.2	0.33	0.32	
3,838.0	28.20	78.90	3,770.1	33.8	348.4	-36.9	1.49	-1.11	
3,902.0	27.50	82.90	3,826.7	38.6	377.9	-41.9	3.12	-1.09	
3,965.0	26.20	85.80	3,882.9	41.4	406.2	-44.9	2.93	-2.06	
4,028.0	26.30	87.50	3,939.4	43.0	434.0	-46.8	1.20	0.16	
4,091.0	24.20	86.90	3,996.4	44.3	460.9	-48.3	3.36	-3.33	
4,154.0	24.00	86.30	4,053.9	45.8	486.5	-50.1	0.50	-0.32	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
4,218.0	26.60	90.80	4,111.7	46.5	513.9	-51.0	5.05	4.06	
4,281.0	32.00	93.50	4,166.6	45.3	544.6	-50.0	8.82	8.57	
4,312.0	31.50	95.20	4,193.0	44.0	560.9	-48.9	3.31	-1.61	
4,344.0	32.70	99.90	4,220.1	41.8	577.7	-46.8	8.66	3.75	
4,376.0	33.00	104.00	4,247.0	38.2	594.7	-43.4	7.01	0.94	
4,407.0	33.80	106.30	4,272.9	33.7	611.2	-39.1	4.83	2.58	
4,439.0	35.10	110.50	4,299.3	28.0	628.4	-33.5	8.46	4.06	
4,470.0	34.80	115.10	4,324.7	21.1	644.7	-26.8	8.55	-0.97	
4,502.0	34.00	121.10	4,351.1	12.6	660.7	-18.4	10.88	-2.50	
4,534.0	34.90	126.20	4,377.5	2.6	675.7	-8.5	9.44	2.81	
4,565.0	34.70	131.60	4,403.0	-8.5	689.5	2.5	9.96	-0.65	
4,597.0	34.50	135.10	4,429.3	-21.0	702.7	14.8	6.24	-0.62	
4,628.0	34.50	139.30	4,454.9	-33.8	714.6	27.6	7.67	0.00	
4,660.0	34.50	140.40	4,481.2	-47.7	726.3	41.4	1.95	0.00	
4,692.0	34.60	142.20	4,507.6	-61.9	737.6	55.4	3.21	0.31	
4,723.0	36.90	142.30	4,532.7	-76.2	748.7	69.6	7.42	7.42	
4,755.0	40.20	142.50	4,557.8	-92.0	760.9	85.3	10.32	10.31	
4,786.0	42.40	144.10	4,581.0	-108.4	773.1	101.6	7.87	7.10	
4,818.0	43.10	144.90	4,604.5	-126.1	785.7	119.2	2.77	2.19	
4,850.0	44.70	147.60	4,627.6	-144.5	798.0	137.5	7.70	5.00	
4,881.0	47.70	151.20	4,649.1	-163.8	809.4	156.7	12.80	9.68	
4,913.0	49.40	154.10	4,670.2	-185.1	820.4	177.9	8.62	5.31	
4,945.0	51.40	156.40	4,690.6	-207.5	830.7	200.2	8.35	6.25	
4,976.0	53.00	158.70	4,709.6	-230.1	840.1	222.8	7.81	5.16	
5,008.0	54.90	161.60	4,728.5	-254.4	848.8	247.0	9.43	5.94	
5,039.0	56.90	162.00	4,745.9	-278.8	856.9	271.3	6.54	6.45	
5,059.0	58.80	162.70	4,756.5	-295.0	862.0	287.4	9.95	9.50	
5,090.0	61.50	165.70	4,771.9	-320.8	869.3	313.2	12.09	8.71	
5,122.0	62.60	166.10	4,786.9	-348.2	876.2	340.6	3.61	3.44	
5,154.0	65.30	167.40	4,801.0	-376.2	882.8	368.5	9.19	8.44	
5,185.0	67.80	168.90	4,813.3	-404.1	888.6	396.3	9.21	8.06	
5,217.0	69.80	171.90	4,824.9	-433.5	893.6	425.7	10.74	6.25	
5,249.0	71.70	173.40	4,835.4	-463.4	897.4	455.6	7.41	5.94	
5,280.0	73.70	175.90	4,844.7	-492.9	900.2	485.0	10.04	6.45	
5,312.0	76.40	177.20	4,852.9	-523.7	902.1	515.9	9.31	8.44	
5,343.0	79.60	178.10	4,859.4	-554.0	903.3	546.1	10.71	10.32	
5,375.0	83.20	177.70	4,864.1	-585.7	904.5	577.7	11.32	11.25	
5,407.0	86.80	178.00	4,866.9	-617.5	905.7	609.6	11.29	11.25	
5,438.0	89.70	179.70	4,867.9	-648.5	906.3	640.5	10.84	9.35	
5,502.0	91.30	180.70	4,867.3	-712.5	906.1	704.5	2.95	2.50	
5,565.0	91.00	180.00	4,866.1	-775.5	905.7	767.5	1.21	-0.48	
5,628.0	92.50	180.40	4,864.1	-838.4	905.4	830.5	2.46	2.38	
5,692.0	92.80	180.90	4,861.2	-902.4	904.7	894.4	0.91	0.47	
5,755.0	92.10	181.60	4,858.5	-965.3	903.3	957.4	1.57	-1.11	
5,818.0	90.90	180.00	4,856.8	-1,028.3	902.5	1,020.3	3.17	-1.90	
5,881.0	91.20	180.20	4,855.7	-1,091.2	902.4	1,083.3	0.57	0.48	
5,944.0	90.30	180.40	4,854.9	-1,154.2	902.0	1,146.3	1.46	-1.43	
6,007.0	90.60	180.90	4,854.4	-1,217.2	901.3	1,209.3	0.93	0.48	
6,070.0	91.30	180.00	4,853.3	-1,280.2	900.8	1,272.3	1.81	1.11	
6,134.0	90.20	181.20	4,852.5	-1,344.2	900.2	1,336.3	2.54	-1.72	
6,197.0	90.70	180.40	4,852.0	-1,407.2	899.3	1,399.3	1.50	0.79	
6,260.0	91.30	180.80	4,850.9	-1,470.2	898.6	1,462.3	1.14	0.95	
6,323.0	90.10	180.90	4,850.1	-1,533.2	897.7	1,525.3	1.91	-1.90	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
6,386.0	90.70	181.20	4,849.7	-1,596.2	896.5	1,588.3	1.06	0.95	
6,450.0	91.50	181.00	4,848.4	-1,660.1	895.3	1,652.3	1.29	1.25	
6,513.0	90.40	181.20	4,847.4	-1,723.1	894.1	1,715.2	1.77	-1.75	
6,576.0	90.80	181.00	4,846.7	-1,786.1	892.9	1,778.2	0.71	0.63	
6,637.0	91.60	180.90	4,845.5	-1,847.1	891.9	1,839.2	1.32	1.31	
6,698.0	90.60	179.70	4,844.3	-1,908.1	891.5	1,900.2	2.56	-1.64	
6,758.0	90.70	181.00	4,843.6	-1,968.1	891.2	1,960.2	2.17	0.17	
6,818.0	90.70	181.60	4,842.9	-2,028.0	889.8	2,020.2	1.00	0.00	
6,879.0	91.30	179.80	4,841.8	-2,089.0	889.1	2,081.2	3.11	0.98	
6,940.0	92.00	180.90	4,840.1	-2,150.0	888.7	2,142.2	2.14	1.15	
7,002.0	92.00	179.10	4,837.9	-2,211.9	888.7	2,204.1	2.90	0.00	
7,062.0	90.90	177.00	4,836.4	-2,271.9	890.7	2,264.0	3.95	-1.83	
7,123.0	91.30	177.90	4,835.2	-2,332.8	893.5	2,324.9	1.61	0.66	
7,183.0	90.00	178.10	4,834.5	-2,392.8	895.5	2,384.9	2.19	-2.17	
7,244.0	90.20	179.20	4,834.4	-2,453.8	897.0	2,445.8	1.83	0.33	
7,304.0	90.80	179.30	4,833.9	-2,513.8	897.8	2,505.8	1.01	1.00	
7,365.0	90.80	180.40	4,833.0	-2,574.7	897.9	2,566.8	1.80	0.00	
7,426.0	89.60	180.60	4,832.8	-2,635.7	897.4	2,627.8	1.99	-1.97	
7,486.0	89.90	180.90	4,833.1	-2,695.7	896.6	2,687.8	0.71	0.50	
7,547.0	90.40	180.80	4,832.9	-2,756.7	895.7	2,748.8	0.84	0.82	
7,608.0	91.00	180.50	4,832.2	-2,817.7	895.0	2,809.8	1.10	0.98	
7,668.0	90.10	180.20	4,831.6	-2,877.7	894.6	2,869.8	1.58	-1.50	
7,729.0	90.40	181.60	4,831.3	-2,938.7	893.7	2,930.8	2.35	0.49	
7,792.0	91.00	181.60	4,830.6	-3,001.7	891.9	2,993.8	0.95	0.95	
7,855.0	90.20	180.20	4,829.9	-3,064.7	890.9	3,056.8	2.56	-1.27	
7,918.0	90.40	181.20	4,829.6	-3,127.7	890.2	3,119.8	1.62	0.32	
7,982.0	91.30	180.20	4,828.6	-3,191.6	889.4	3,183.8	2.10	1.41	
8,045.0	90.40	181.10	4,827.7	-3,254.6	888.7	3,246.8	2.02	-1.43	
8,108.0	90.00	180.90	4,827.5	-3,317.6	887.6	3,309.7	0.71	-0.63	
8,171.0	90.30	180.90	4,827.3	-3,380.6	886.6	3,372.7	0.48	0.48	
8,235.0	91.40	182.30	4,826.4	-3,444.6	884.8	3,436.7	2.78	1.72	
8,298.0	90.90	180.80	4,825.1	-3,507.5	883.1	3,499.7	2.51	-0.79	
8,361.0	90.00	181.10	4,824.6	-3,570.5	882.1	3,562.7	1.51	-1.43	
8,424.0	90.60	181.00	4,824.3	-3,633.5	880.9	3,625.7	0.97	0.95	
8,487.0	90.90	179.60	4,823.4	-3,696.5	880.6	3,688.7	2.27	0.48	
8,550.0	91.70	180.60	4,822.0	-3,759.5	880.5	3,751.7	2.03	1.27	
8,614.0	92.50	180.60	4,819.7	-3,823.4	879.8	3,815.6	1.25	1.25	
8,677.0	91.50	179.70	4,817.5	-3,886.4	879.6	3,878.6	2.13	-1.59	
8,740.0	90.20	180.40	4,816.5	-3,949.4	879.6	3,941.6	2.34	-2.06	
8,803.0	90.50	180.20	4,816.2	-4,012.4	879.2	4,004.6	0.57	0.48	
8,866.0	91.40	181.30	4,815.1	-4,075.4	878.4	4,067.6	2.26	1.43	
8,929.0	90.40	179.30	4,814.1	-4,138.4	878.1	4,130.5	3.55	-1.59	
8,992.0	91.10	179.60	4,813.3	-4,201.4	878.7	4,193.5	1.21	1.11	
9,055.0	91.10	180.10	4,812.1	-4,264.3	878.9	4,256.5	0.79	0.00	
9,119.0	91.80	179.70	4,810.5	-4,328.3	879.0	4,320.5	1.26	1.09	
9,182.0	93.20	179.40	4,807.7	-4,391.2	879.5	4,383.4	2.27	2.22	
9,246.0	91.80	179.80	4,804.9	-4,455.2	879.9	4,447.3	2.27	-2.19	
9,309.0	90.40	181.90	4,803.7	-4,518.2	879.0	4,510.3	4.01	-2.22	
9,372.0	90.70	180.90	4,803.1	-4,581.1	877.4	4,573.3	1.66	0.48	
9,435.0	91.40	180.20	4,802.0	-4,644.1	876.8	4,636.3	1.57	1.11	
9,498.0	91.00	179.40	4,800.6	-4,707.1	877.0	4,699.3	1.42	-0.63	
9,562.0	90.20	179.90	4,800.0	-4,771.1	877.4	4,763.3	1.47	-1.25	
9,625.0	90.70	179.90	4,799.5	-4,834.1	877.5	4,826.3	0.79	0.79	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
9,688.0	91.50	179.70	4,798.3	-4,897.1	877.8	4,889.2	1.31	1.27	
9,751.0	91.00	180.40	4,796.9	-4,960.1	877.7	4,952.2	1.37	-0.79	
9,815.0	90.40	180.40	4,796.1	-5,024.1	877.3	5,016.2	0.94	-0.94	
9,878.0	90.60	181.00	4,795.6	-5,087.0	876.5	5,079.2	1.00	0.32	
9,941.0	91.50	181.10	4,794.4	-5,150.0	875.3	5,142.2	1.44	1.43	
10,004.0	90.90	181.50	4,793.1	-5,213.0	873.9	5,205.2	1.14	-0.95	
10,078.0	91.60	182.10	4,791.5	-5,287.0	871.6	5,279.2	1.25	0.95	Last CES Survey @ 10,078' MD
10,128.0	91.60	182.10	4,790.1	-5,336.9	869.8	5,329.1	0.00	0.00	PTB @ 10,128'

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Lybrook M35-2308 02H	0.00	0.00	4,792.1	-5,351.1	864.9	1,878,460.03	2,776,461.18	36.162400	-107.652530
- actual wellpath misses target center by 15.1usft at 10128.0usft MD (4790.1 TVD, -5336.9 N, 869.8 E)									
- Point									
Lybrook M35-2308 02H	0.00	0.00	4,864.7	-673.4	906.1	1,883,137.75	2,776,493.78	36.175250	-107.652390
- actual wellpath misses target center by 3.2usft at 5463.0usft MD (4867.9 TVD, -673.5 N, 906.3 E)									
- Point									
Lybrook M35-2308 02H	0.00	0.00	4,799.4	-5,351.1	864.9	1,878,460.03	2,776,461.18	36.162400	-107.652530
- actual wellpath misses target center by 17.7usft at 10128.0usft MD (4790.1 TVD, -5336.9 N, 869.8 E)									
- Point									
Lybrook M35-2308 02H	0.00	0.00	4,865.5	-673.4	906.1	1,883,137.75	2,776,493.78	36.175250	-107.652390
- actual wellpath misses target center by 2.4usft at 5463.0usft MD (4867.9 TVD, -673.4 N, 906.3 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,078.0	4,791.5	-5,287.0	871.6	Last CES Survey @ 10,078' MD
10,128.0	4,790.1	-5,336.9	869.8	PTB @ 10,128'

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

EnCana Oil & Gas (USA) Inc

San Juan County, NM

S35-T23N-R8W

Lybrook M35-2308 02H

Hz

Design: FINAL

Survey Report - Geographic

15 October, 2014

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	San Juan County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site		S35-T23N-R8W				
Site Position:		Northing:	1,883,780.33	usft	Latitude:	36.177020
From:	Lat/Long	Easting:	2,775,554.08	usft	Longitude:	-107.655570
Position Uncertainty:		0.0	usft	Slot Radius:	13-3/16	"
				Grid Convergence:	0.10	°

Well	Lybrook M35-2308 02H					
Well Position	+N/-S	0.0 usft	Northing:	1,883,809.51 usft	Latitude:	36.177100
	+E/-W	0.0 usft	Easting:	2,775,586.50 usft	Longitude:	-107.655460
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,879.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	10/6/2014	9.38	62.92	50,096

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	180.50	

Survey Program	Date	10/15/2014			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
146.0	10,128.0	Survey #1 (Hz)	Geolink MWD	Geolink MWD	

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting		
(usft)			(usft)			(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	1,883,809.51	2,775,586.50	36.177100	-107.655460
146.0	0.10	5.20	146.0	0.1	0.0	1,883,809.64	2,775,586.51	36.177100	-107.655460
209.0	0.40	313.70	209.0	0.3	-0.1	1,883,809.84	2,775,586.35	36.177101	-107.655461
272.0	0.60	279.40	272.0	0.5	-0.6	1,883,810.05	2,775,585.87	36.177102	-107.655462
335.0	0.60	250.70	335.0	0.5	-1.3	1,883,809.99	2,775,585.23	36.177101	-107.655465
399.0	0.60	267.60	399.0	0.4	-1.9	1,883,809.86	2,775,584.58	36.177101	-107.655467
458.0	0.90	252.30	458.0	0.2	-2.7	1,883,809.71	2,775,583.83	36.177101	-107.655469
536.0	0.90	249.80	536.0	-0.2	-3.8	1,883,809.31	2,775,582.67	36.177100	-107.655473
600.0	0.90	257.90	600.0	-0.5	-4.8	1,883,809.03	2,775,581.71	36.177099	-107.655476
663.0	1.10	261.70	663.0	-0.7	-5.9	1,883,808.84	2,775,580.63	36.177098	-107.655480
726.0	1.10	245.10	725.9	-1.0	-7.0	1,883,808.49	2,775,579.48	36.177097	-107.655484
789.0	1.50	256.90	788.9	-1.4	-8.4	1,883,808.05	2,775,578.13	36.177096	-107.655489

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
852.0	1.60	247.90	851.9	-2.0	-10.0	1,883,807.53	2,775,576.51	36.177095	-107.655494
915.0	1.70	228.80	914.9	-2.9	-11.5	1,883,806.58	2,775,575.00	36.177092	-107.655499
978.0	0.50	182.90	977.9	-3.8	-12.2	1,883,805.69	2,775,574.28	36.177090	-107.655502
1,042.0	0.50	194.50	1,041.9	-4.3	-12.3	1,883,805.14	2,775,574.20	36.177088	-107.655502
1,105.0	0.40	104.00	1,104.9	-4.7	-12.2	1,883,804.82	2,775,574.34	36.177087	-107.655501
1,168.0	0.90	50.60	1,167.9	-4.4	-11.6	1,883,805.08	2,775,574.94	36.177088	-107.655499
1,231.0	0.80	68.50	1,230.9	-3.9	-10.8	1,883,805.56	2,775,575.73	36.177089	-107.655497
1,294.0	0.60	59.40	1,293.9	-3.6	-10.1	1,883,805.89	2,775,576.42	36.177090	-107.655494
1,358.0	0.60	55.10	1,357.8	-3.2	-9.5	1,883,806.25	2,775,576.99	36.177091	-107.655493
1,421.0	1.00	66.50	1,420.8	-2.8	-8.7	1,883,806.66	2,775,577.76	36.177092	-107.655490
1,484.0	0.90	68.20	1,483.8	-2.4	-7.8	1,883,807.06	2,775,578.72	36.177093	-107.655487
1,547.0	0.40	89.40	1,546.8	-2.2	-7.1	1,883,807.25	2,775,579.40	36.177094	-107.655484
1,610.0	0.40	138.10	1,609.8	-2.4	-6.7	1,883,807.09	2,775,579.77	36.177093	-107.655483
1,674.0	0.30	166.50	1,673.8	-2.7	-6.5	1,883,806.76	2,775,579.96	36.177093	-107.655482
1,737.0	0.20	240.40	1,736.8	-2.9	-6.6	1,883,806.55	2,775,579.90	36.177092	-107.655483
1,800.0	0.50	63.40	1,799.8	-2.9	-6.5	1,883,806.62	2,775,580.05	36.177092	-107.655482
1,863.0	1.40	61.40	1,862.8	-2.4	-5.5	1,883,807.11	2,775,580.97	36.177094	-107.655479
1,927.0	1.30	81.90	1,926.8	-1.9	-4.1	1,883,807.59	2,775,582.38	36.177095	-107.655474
1,990.0	1.50	73.50	1,989.8	-1.6	-2.6	1,883,807.93	2,775,583.87	36.177096	-107.655469
2,053.0	1.10	77.90	2,052.8	-1.2	-1.2	1,883,808.29	2,775,585.25	36.177097	-107.655464
2,116.0	1.40	92.60	2,115.7	-1.1	0.1	1,883,808.38	2,775,586.61	36.177097	-107.655460
2,180.0	1.60	83.30	2,179.7	-1.1	1.8	1,883,808.46	2,775,588.28	36.177097	-107.655454
2,243.0	1.50	92.40	2,242.7	-1.0	3.5	1,883,808.53	2,775,589.98	36.177097	-107.655448
2,307.0	1.10	81.20	2,306.7	-0.9	4.9	1,883,808.59	2,775,591.42	36.177098	-107.655444
2,369.0	1.10	162.40	2,368.7	-1.4	5.7	1,883,808.11	2,775,592.19	36.177096	-107.655441
2,433.0	0.80	224.40	2,432.7	-2.3	5.6	1,883,807.21	2,775,592.07	36.177094	-107.655441
2,496.0	1.20	292.00	2,495.7	-2.4	4.6	1,883,807.14	2,775,591.15	36.177094	-107.655445
2,559.0	1.00	282.80	2,558.7	-2.0	3.5	1,883,807.51	2,775,590.00	36.177095	-107.655448
2,620.0	0.30	112.70	2,619.6	-2.0	3.1	1,883,807.56	2,775,589.63	36.177095	-107.655450
2,681.0	3.10	84.30	2,680.6	-1.8	4.9	1,883,807.67	2,775,591.42	36.177095	-107.655444
2,741.0	5.10	83.00	2,740.5	-1.4	9.2	1,883,808.16	2,775,595.68	36.177096	-107.655429
2,802.0	4.20	94.60	2,801.3	-1.2	14.1	1,883,808.32	2,775,600.59	36.177097	-107.655413
2,863.0	5.60	95.30	2,862.0	-1.7	19.3	1,883,807.88	2,775,605.79	36.177096	-107.655395
2,924.0	7.40	81.60	2,922.6	-1.4	26.1	1,883,808.19	2,775,612.64	36.177096	-107.655372
2,985.0	9.10	82.00	2,983.0	-0.1	34.8	1,883,809.45	2,775,621.30	36.177100	-107.655342
3,045.0	11.80	82.80	3,042.0	1.3	45.6	1,883,810.90	2,775,632.08	36.177104	-107.655306
3,106.0	14.10	82.50	3,101.5	3.1	59.1	1,883,812.68	2,775,645.63	36.177108	-107.655260
3,166.0	16.40	81.50	3,159.3	5.3	74.8	1,883,814.91	2,775,661.26	36.177115	-107.655207
3,227.0	17.80	81.30	3,217.6	7.9	92.5	1,883,817.63	2,775,678.99	36.177122	-107.655147
3,287.0	19.20	82.90	3,274.5	10.6	111.4	1,883,820.27	2,775,697.84	36.177129	-107.655083
3,348.0	21.10	87.80	3,331.8	12.2	132.3	1,883,821.97	2,775,718.76	36.177134	-107.655012
3,409.0	22.60	90.10	3,388.4	12.6	155.0	1,883,822.41	2,775,741.46	36.177135	-107.654935
3,469.0	23.10	88.70	3,443.7	12.9	178.3	1,883,822.70	2,775,764.75	36.177135	-107.654856
3,530.0	24.40	87.60	3,499.5	13.7	202.8	1,883,823.54	2,775,789.30	36.177138	-107.654773
3,591.0	28.60	85.90	3,554.1	15.2	230.0	1,883,825.17	2,775,816.46	36.177142	-107.654681
3,651.0	30.20	81.50	3,606.4	18.5	259.3	1,883,828.48	2,775,845.71	36.177151	-107.654582
3,712.0	28.70	80.30	3,659.5	23.2	288.9	1,883,833.27	2,775,875.32	36.177164	-107.654481
3,775.0	28.90	80.20	3,714.7	28.4	318.8	1,883,838.46	2,775,905.22	36.177178	-107.654380
3,838.0	28.20	78.90	3,770.1	33.8	348.4	1,883,843.97	2,775,934.82	36.177193	-107.654280
3,902.0	27.50	82.90	3,826.7	38.6	377.9	1,883,848.77	2,775,964.31	36.177206	-107.654180
3,965.0	26.20	85.80	3,882.9	41.4	406.2	1,883,851.63	2,775,992.62	36.177214	-107.654084
4,028.0	26.30	87.50	3,939.4	43.0	434.0	1,883,853.31	2,776,020.43	36.177218	-107.653990
4,091.0	24.20	86.90	3,996.4	44.3	460.9	1,883,854.67	2,776,047.26	36.177222	-107.653899
4,154.0	24.00	86.30	4,053.9	45.8	486.5	1,883,856.24	2,776,072.94	36.177226	-107.653812
4,218.0	26.60	90.80	4,111.7	46.5	513.9	1,883,856.93	2,776,100.26	36.177228	-107.653719

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,281.0	32.00	93.50	4,166.6	45.3	544.6	1,883,855.77	2,776,131.05	36.177224	-107.653615
4,312.0	31.50	95.20	4,193.0	44.0	560.9	1,883,854.57	2,776,147.32	36.177221	-107.653560
4,344.0	32.70	99.90	4,220.1	41.8	577.7	1,883,852.35	2,776,164.17	36.177215	-107.653503
4,376.0	33.00	104.00	4,247.0	38.2	594.7	1,883,848.79	2,776,181.15	36.177205	-107.653445
4,407.0	33.80	106.30	4,272.9	33.7	611.2	1,883,844.36	2,776,197.62	36.177193	-107.653389
4,439.0	35.10	110.50	4,299.3	28.0	628.4	1,883,838.67	2,776,214.80	36.177177	-107.653331
4,470.0	34.80	115.10	4,324.7	21.1	644.7	1,883,831.82	2,776,231.17	36.177158	-107.653276
4,502.0	34.00	121.10	4,351.1	12.6	660.7	1,883,823.35	2,776,247.12	36.177135	-107.653222
4,534.0	34.90	126.20	4,377.5	2.6	675.7	1,883,813.35	2,776,262.19	36.177107	-107.653171
4,565.0	34.70	131.60	4,403.0	-8.5	689.5	1,883,802.28	2,776,275.97	36.177077	-107.653124
4,597.0	34.50	135.10	4,429.3	-21.0	702.7	1,883,789.83	2,776,289.20	36.177042	-107.653079
4,628.0	34.50	139.30	4,454.9	-33.8	714.6	1,883,776.98	2,776,301.15	36.177007	-107.653039
4,660.0	34.50	140.40	4,481.2	-47.7	726.3	1,883,763.15	2,776,312.86	36.176969	-107.652999
4,692.0	34.60	142.20	4,507.6	-61.9	737.6	1,883,749.01	2,776,324.23	36.176930	-107.652961
4,723.0	36.90	142.30	4,532.7	-76.2	748.7	1,883,734.71	2,776,335.34	36.176891	-107.652923
4,755.0	40.20	142.50	4,557.8	-92.0	760.9	1,883,718.93	2,776,347.54	36.176847	-107.652882
4,786.0	42.40	144.10	4,581.0	-108.4	773.1	1,883,702.55	2,776,359.79	36.176802	-107.652841
4,818.0	43.10	144.90	4,604.5	-126.1	785.7	1,883,684.89	2,776,372.43	36.176754	-107.652798
4,850.0	44.70	147.60	4,627.6	-144.5	798.0	1,883,666.46	2,776,384.79	36.176703	-107.652756
4,881.0	47.70	151.20	4,649.1	-163.8	809.4	1,883,647.22	2,776,396.19	36.176650	-107.652718
4,913.0	49.40	154.10	4,670.2	-185.1	820.4	1,883,625.94	2,776,407.24	36.176592	-107.652680
4,945.0	51.40	156.40	4,690.6	-207.5	830.7	1,883,603.57	2,776,417.59	36.176530	-107.652645
4,976.0	53.00	158.70	4,709.6	-230.1	840.1	1,883,580.95	2,776,426.98	36.176468	-107.652614
5,008.0	54.90	161.60	4,728.5	-254.4	848.8	1,883,556.63	2,776,435.80	36.176401	-107.652584
5,039.0	56.90	162.00	4,745.9	-278.8	856.9	1,883,532.26	2,776,443.86	36.176334	-107.652557
5,059.0	58.80	162.70	4,756.5	-295.0	862.0	1,883,516.14	2,776,449.03	36.176290	-107.652540
5,090.0	61.50	165.70	4,771.9	-320.8	869.3	1,883,490.28	2,776,456.39	36.176219	-107.652515
5,122.0	62.60	166.10	4,786.9	-348.2	876.2	1,883,462.87	2,776,463.32	36.176143	-107.652491
5,154.0	65.30	167.40	4,801.0	-376.2	882.8	1,883,434.90	2,776,469.96	36.176067	-107.652469
5,185.0	67.80	168.90	4,813.3	-404.1	888.6	1,883,407.08	2,776,475.85	36.175990	-107.652449
5,217.0	69.80	171.90	4,824.9	-433.5	893.6	1,883,377.68	2,776,480.87	36.175909	-107.652433
5,249.0	71.70	173.40	4,835.4	-463.4	897.4	1,883,347.73	2,776,484.79	36.175827	-107.652419
5,280.0	73.70	175.90	4,844.7	-492.9	900.2	1,883,318.27	2,776,487.60	36.175746	-107.652410
5,312.0	76.40	177.20	4,852.9	-523.7	902.1	1,883,287.41	2,776,489.51	36.175661	-107.652404
5,343.0	79.60	178.10	4,859.4	-554.0	903.3	1,883,257.12	2,776,490.81	36.175578	-107.652400
5,375.0	83.20	177.70	4,864.1	-585.7	904.5	1,883,225.51	2,776,492.02	36.175491	-107.652396
5,407.0	86.80	178.00	4,866.9	-617.5	905.7	1,883,193.66	2,776,493.28	36.175404	-107.652392
5,438.0	89.70	179.70	4,867.9	-648.5	906.3	1,883,162.69	2,776,493.96	36.175319	-107.652390
5,502.0	91.30	180.70	4,867.3	-712.5	906.1	1,883,098.70	2,776,493.85	36.175143	-107.652390
5,565.0	91.00	180.00	4,866.1	-775.5	905.7	1,883,035.71	2,776,493.58	36.174970	-107.652392
5,628.0	92.50	180.40	4,864.1	-838.4	905.4	1,882,972.74	2,776,493.48	36.174797	-107.652392
5,692.0	92.80	180.90	4,861.2	-902.4	904.7	1,882,908.81	2,776,492.87	36.174621	-107.652395
5,755.0	92.10	181.60	4,858.5	-965.3	903.3	1,882,845.88	2,776,491.61	36.174448	-107.652399
5,818.0	90.90	180.00	4,856.8	-1,028.3	902.5	1,882,782.91	2,776,490.85	36.174275	-107.652402
5,881.0	91.20	180.20	4,855.7	-1,091.2	902.4	1,882,719.92	2,776,490.85	36.174102	-107.652403
5,944.0	90.30	180.40	4,854.9	-1,154.2	902.0	1,882,656.93	2,776,490.64	36.173929	-107.652404
6,007.0	90.60	180.90	4,854.4	-1,217.2	901.3	1,882,593.93	2,776,490.04	36.173756	-107.652406
6,070.0	91.30	180.00	4,853.3	-1,280.2	900.8	1,882,530.95	2,776,489.66	36.173583	-107.652408
6,134.0	90.20	181.20	4,852.5	-1,344.2	900.1	1,882,466.96	2,776,489.11	36.173407	-107.652410
6,197.0	90.70	180.40	4,852.0	-1,407.2	899.3	1,882,403.96	2,776,488.34	36.173234	-107.652413
6,260.0	91.30	180.80	4,850.9	-1,470.2	898.6	1,882,340.97	2,776,487.80	36.173061	-107.652416
6,323.0	90.10	180.90	4,850.1	-1,533.2	897.7	1,882,277.99	2,776,486.98	36.172888	-107.652419
6,386.0	90.70	181.20	4,849.7	-1,596.2	896.5	1,882,215.00	2,776,485.94	36.172715	-107.652423
6,450.0	91.50	181.00	4,848.4	-1,660.1	895.3	1,882,151.02	2,776,484.83	36.172539	-107.652427
6,513.0	90.40	181.20	4,847.4	-1,723.1	894.1	1,882,088.04	2,776,483.74	36.172366	-107.652431

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,576.0	90.80	181.00	4,846.7	-1,786.1	892.9	1,882,025.05	2,776,482.64	36.172193	-107.652435
6,637.0	91.60	180.90	4,845.5	-1,847.1	891.9	1,881,964.07	2,776,481.74	36.172026	-107.652438
6,698.0	90.60	179.70	4,844.3	-1,908.1	891.5	1,881,903.08	2,776,481.54	36.171858	-107.652440
6,758.0	90.70	181.00	4,843.6	-1,968.1	891.2	1,881,843.09	2,776,481.28	36.171694	-107.652441
6,818.0	90.70	181.60	4,842.9	-2,028.0	889.8	1,881,783.11	2,776,480.03	36.171529	-107.652445
6,879.0	91.30	179.80	4,841.8	-2,089.0	889.1	1,881,722.12	2,776,479.39	36.171361	-107.652448
6,940.0	92.00	180.90	4,840.1	-2,150.0	888.7	1,881,661.15	2,776,479.13	36.171194	-107.652449
7,002.0	92.00	179.10	4,837.9	-2,211.9	888.7	1,881,599.19	2,776,479.25	36.171024	-107.652449
7,062.0	90.90	177.00	4,836.4	-2,271.9	890.7	1,881,539.25	2,776,481.40	36.170859	-107.652442
7,123.0	91.30	177.90	4,835.2	-2,332.8	893.5	1,881,478.33	2,776,484.22	36.170692	-107.652433
7,183.0	90.00	178.10	4,834.5	-2,392.8	895.5	1,881,418.38	2,776,486.43	36.170527	-107.652426
7,244.0	90.20	179.20	4,834.4	-2,453.8	897.0	1,881,357.40	2,776,487.98	36.170359	-107.652421
7,304.0	90.80	179.30	4,833.9	-2,513.8	897.8	1,881,297.41	2,776,488.87	36.170195	-107.652419
7,365.0	90.80	180.40	4,833.0	-2,574.7	897.9	1,881,236.41	2,776,489.14	36.170027	-107.652418
7,426.0	89.60	180.60	4,832.8	-2,635.7	897.4	1,881,175.42	2,776,488.72	36.169859	-107.652420
7,486.0	89.90	180.90	4,833.1	-2,695.7	896.6	1,881,115.42	2,776,488.05	36.169695	-107.652422
7,547.0	90.40	180.80	4,832.9	-2,756.7	895.7	1,881,054.43	2,776,487.25	36.169527	-107.652426
7,608.0	91.00	180.50	4,832.2	-2,817.7	895.0	1,880,993.43	2,776,486.67	36.169359	-107.652428
7,668.0	90.10	180.20	4,831.6	-2,877.7	894.6	1,880,933.44	2,776,486.42	36.169195	-107.652429
7,729.0	90.40	181.60	4,831.3	-2,938.7	893.7	1,880,872.45	2,776,485.57	36.169027	-107.652432
7,792.0	91.00	181.60	4,830.6	-3,001.7	891.9	1,880,809.47	2,776,483.93	36.168854	-107.652438
7,855.0	90.20	180.20	4,829.9	-3,064.7	890.9	1,880,746.48	2,776,483.05	36.168681	-107.652442
7,918.0	90.40	181.20	4,829.6	-3,127.7	890.2	1,880,683.49	2,776,482.40	36.168508	-107.652444
7,982.0	91.30	180.20	4,828.6	-3,191.6	889.4	1,880,619.50	2,776,481.73	36.168332	-107.652447
8,045.0	90.40	181.10	4,827.7	-3,254.6	888.7	1,880,556.51	2,776,481.13	36.168159	-107.652449
8,108.0	90.00	180.90	4,827.5	-3,317.6	887.6	1,880,493.52	2,776,480.15	36.167986	-107.652453
8,171.0	90.30	180.90	4,827.3	-3,380.6	886.6	1,880,430.53	2,776,479.28	36.167813	-107.652457
8,235.0	91.40	182.30	4,826.4	-3,444.6	884.8	1,880,366.56	2,776,477.61	36.167637	-107.652463
8,298.0	90.90	180.80	4,825.1	-3,507.5	883.1	1,880,303.59	2,776,476.02	36.167464	-107.652468
8,361.0	90.00	181.10	4,824.6	-3,570.5	882.1	1,880,240.60	2,776,475.09	36.167291	-107.652472
8,424.0	90.60	181.00	4,824.3	-3,633.5	880.9	1,880,177.61	2,776,474.05	36.167118	-107.652476
8,487.0	90.90	179.60	4,823.4	-3,696.5	880.6	1,880,114.62	2,776,473.84	36.166945	-107.652477
8,550.0	91.70	180.60	4,822.0	-3,759.5	880.5	1,880,051.64	2,776,473.84	36.166772	-107.652477
8,614.0	92.50	180.60	4,819.7	-3,823.4	879.8	1,879,987.68	2,776,473.29	36.166597	-107.652480
8,677.0	91.50	179.70	4,817.5	-3,886.4	879.6	1,879,924.72	2,776,473.24	36.166424	-107.652480
8,740.0	90.20	180.40	4,816.5	-3,949.4	879.6	1,879,861.73	2,776,473.30	36.166251	-107.652480
8,803.0	90.50	180.20	4,816.2	-4,012.4	879.2	1,879,798.73	2,776,473.09	36.166078	-107.652481
8,866.0	91.40	181.30	4,815.1	-4,075.4	878.4	1,879,735.75	2,776,472.38	36.165905	-107.652484
8,929.0	90.40	179.30	4,814.1	-4,138.4	878.1	1,879,672.76	2,776,472.16	36.165732	-107.652485
8,992.0	91.10	179.60	4,813.3	-4,201.4	878.7	1,879,609.77	2,776,472.88	36.165558	-107.652483
9,055.0	91.10	180.10	4,812.1	-4,264.3	878.9	1,879,546.80	2,776,473.16	36.165385	-107.652483
9,119.0	91.80	179.70	4,810.5	-4,328.3	879.0	1,879,482.82	2,776,473.39	36.165210	-107.652482
9,182.0	93.20	179.40	4,807.7	-4,391.2	879.5	1,879,419.89	2,776,474.00	36.165037	-107.652481
9,246.0	91.80	179.80	4,804.9	-4,455.2	879.9	1,879,355.95	2,776,474.57	36.164861	-107.652479
9,309.0	90.40	181.90	4,803.7	-4,518.2	879.0	1,879,292.97	2,776,473.75	36.164688	-107.652482
9,372.0	90.70	180.90	4,803.1	-4,581.1	877.4	1,879,229.99	2,776,472.32	36.164515	-107.652488
9,435.0	91.40	180.20	4,802.0	-4,644.1	876.8	1,879,167.01	2,776,471.83	36.164342	-107.652490
9,498.0	91.00	179.40	4,800.6	-4,707.1	877.0	1,879,104.02	2,776,472.17	36.164169	-107.652489
9,562.0	90.20	179.90	4,800.0	-4,771.1	877.4	1,879,040.03	2,776,472.68	36.163993	-107.652488
9,625.0	90.70	179.90	4,799.5	-4,834.1	877.5	1,878,977.03	2,776,472.90	36.163820	-107.652487
9,688.0	91.50	179.70	4,798.3	-4,897.1	877.8	1,878,914.05	2,776,473.24	36.163647	-107.652487
9,751.0	91.00	180.40	4,796.9	-4,960.1	877.7	1,878,851.06	2,776,473.30	36.163474	-107.652487
9,815.0	90.40	180.40	4,796.1	-5,024.1	877.3	1,878,787.07	2,776,472.97	36.163298	-107.652488
9,878.0	90.60	181.00	4,795.6	-5,087.0	876.5	1,878,724.07	2,776,472.31	36.163125	-107.652491
9,941.0	91.50	181.10	4,794.4	-5,150.0	875.3	1,878,661.09	2,776,471.28	36.162952	-107.652495

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook M35-2308 02H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6894.0usft (A920)
Site:	S35-T23N-R8W	MD Reference:	15' KB @ 6894.0usft (A920)
Well:	Lybrook M35-2308 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,004.0	90.90	181.50	4,793.1	-5,213.0	873.9	1,878,598.12	2,776,469.96	36.162779	-107.652500
10,078.0	91.60	182.10	4,791.5	-5,287.0	871.6	1,878,524.15	2,776,467.77	36.162576	-107.652508
Last CES Survey @ 10,078' MD									
10,128.0	91.60	182.10	4,790.1	-5,336.9	869.8	1,878,474.22	2,776,466.03	36.162439	-107.652514
PTB @ 10,128'									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Lybrook M35-2308 02H - hit/miss target - Shape	0.00	0.00	4,792.1	-5,351.1	864.9	1,878,460.03	2,776,461.18	36.162400	-107.652530
- actual wellpath misses target center by 15.1usft at 10128.0usft MD (4790.1 TVD, -5336.9 N, 869.8 E)									
- Point									
Lybrook M35-2308 02H - actual wellpath misses target center by 2.4usft at 5463.0usft MD (4867.9 TVD, -673.4 N, 906.3 E)	0.00	0.00	4,865.5	-673.4	906.1	1,883,137.75	2,776,493.78	36.175250	-107.652390
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
10,078.0	4,791.5	-5,287.0	871.6	Last CES Survey @ 10,078' MD	
10,128.0	4,790.1	-5,336.9	869.8	PTB @ 10,128'	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------