

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

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

Submit one copy to appropriate
District Office

CONFIDENTIAL

☐ AMENDED REPORT
☒ AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-043-21221		2 Pool Code 42289		3 Pool Name Lybrook Gallup	
4 Property Code 313351		5 Property Name LYBROOK P03-2206			6 Well Number 01H
7 OGRID No. 282327		8 Operator Name ENCANA OIL & GAS (USA) INC.			9 Elevation 7124.1'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
P	3	22N	6W		438'	SOUTH	1222'	EAST	SANDOVAL

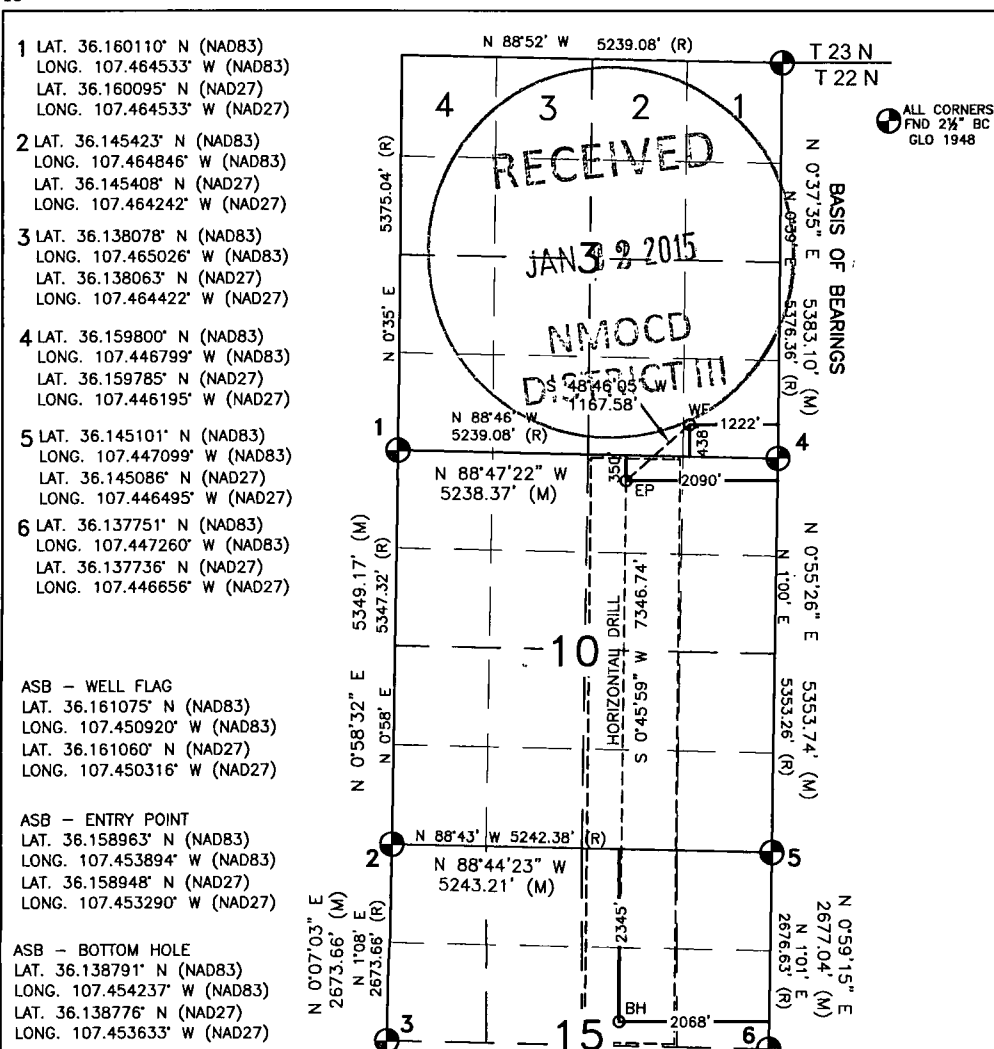
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
G	15	22N	6W		2345'	NORTH	2068'	EAST	SANDOVAL

12 Dedicated Acres PROJECT AREA 160.00 ACRES W/2 E/2 SEC. 10 80.00 ACRES W/2 NE/4 SEC. 15		13 Joint or Infill		14 Consolidation Code		15 Order No.	
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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

16



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 unleased mineral interest in the land including the proposed bottom hole location 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: *Katie Wegner* Date: 1/20/15
Printed Name: Katie Wegner
E-mail Address: Katie.Wegner@encana.com

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 OF ASBUILT SURVEY - DECEMBER 30, 2014
DATE OF SURVEY - SEPTEMBER 9, 2013

Date of Survey

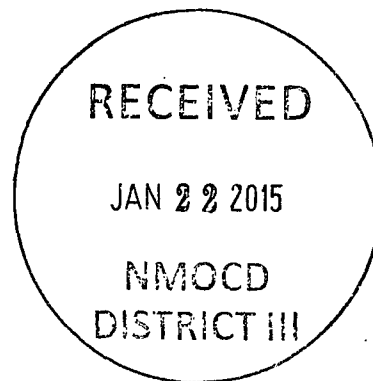
Signature and Seal of Professional Surveyor:

DAVID R. RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
10201
DAVID RUSSELL
Certificate Number 10201

DEVIATION SURVEYS
Lybrook P03-2206 01H
30-043-21221

CONFIDENTIAL

MD (Feet)	Inclination (Degree)
757'	0.68
1074'	0.61
1378'	0.08
1682'	0.33
1986'	0.70
2289'	1.10
2605'	0.30
2921'	1.12
3237'	1.28
3553'	6.19



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

1/20/15
Date

ACKNOWLEDGMENT

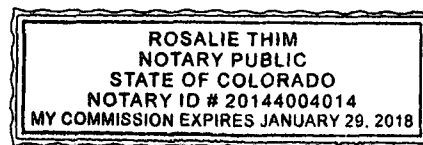
State of Colorado
City and County of Denver

This instrument was acknowledged before me on this 20th day of January, 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



encana



EnCana Oil & Gas (USA) Inc

Sandoval County, NM

S3-T22N-R6W

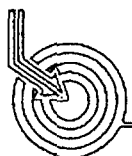
Lybrook P03-2206 01H

Hz

Design: Hz

Standard Survey Report

12 December, 2014



Scientific Drilling

www.scientificdrilling.com

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook P03-2206 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7140.00ft (Original Well Elev)
Site:	S3-T22N-R6W	MD Reference:	WELL @ 7140.00ft (Original Well Elev)
Well:	Lybrook P03-2206 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Grand Junction District

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

Site	S3-T22N-R6W		
Site Position:		Northing:	1,880,089.04 usft
From:	Lat/Long	Easting:	1,285,921.40 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	36.1610750
		Longitude:	-107.4509200
		Grid Convergence:	-0.71 °

Well	Lybrook P03-2206 01H		
Well Position	+N-S	0.00 ft	Northing: 1,880,089.04 usft
	+E-W	0.00 ft	Easting: 1,285,921.40 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.1610750
		Longitude:	-107.4509200
		Ground Level:	7,124.00 ft

Wellbore	Hz		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2014	11/15/2014	9.37
			Dip Angle (°)
			62.95
			Field Strength (nT)
			50,010

Design	Hz		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction (°)
			180.97

Survey Program	Date	12/12/2014		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
568.00	3,173.00	Survey #1 - Surface MWD Survey (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1
3,237.00	5,952.00	Survey #2 - Curve MWD Survey (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1
5,984.00	13,375.00	Survey #3 - Lateral MWD Survey (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey									
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
568.00	0.67	60.95	567.99	1.61	2.90	-1.66	0.12	0.12	0.00
First SDI Surface MWD Survey									
631.00	0.61	51.37	630.98	2.00	3.49	-2.06	0.19	-0.10	-15.21
694.00	0.44	237.09	693.98	2.08	3.55	-2.14	1.66	-0.27	-276.63
757.00	0.68	251.90	756.98	1.83	2.99	-1.88	0.44	0.38	23.51
821.00	0.76	245.65	820.97	1.54	2.24	-1.58	0.17	0.13	-9.77
884.00	0.75	243.07	883.97	1.18	1.49	-1.20	0.06	-0.02	-4.10
947.00	0.55	242.78	946.96	0.85	0.86	-0.87	0.32	-0.32	-0.46

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook P03-2206 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7140.00ft (Original Well Elev)
Site:	S3-T22N-R6W	MD Reference:	WELL @ 7140.00ft (Original Well Elev)
Well:	Lybrook P03-2206 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,010.00	0.74	244.88	1,009.96	0.54	0.22	-0.55	0.30	0.30	3.33
1,074.00	0.61	236.06	1,073.96	0.18	-0.44	-0.17	0.26	-0.20	-13.78
1,135.00	0.55	231.14	1,134.95	-0.19	-0.94	0.20	0.13	-0.10	-8.07
1,196.00	0.52	200.19	1,195.95	-0.63	-1.26	0.65	0.47	-0.05	-50.74
1,256.00	0.35	207.36	1,255.95	-1.05	-1.44	1.07	0.30	-0.28	11.95
1,317.00	0.41	170.36	1,316.95	-1.43	-1.49	1.45	0.41	0.10	-60.66
1,378.00	0.08	255.87	1,377.95	-1.66	-1.49	1.68	0.67	-0.54	140.18
1,439.00	0.08	289.59	1,438.95	-1.65	-1.57	1.68	0.08	0.00	55.28
1,500.00	0.08	235.21	1,499.95	-1.66	-1.65	1.69	0.12	0.00	-89.15
1,561.00	0.24	97.55	1,560.95	-1.70	-1.56	1.73	0.50	0.26	-225.67
1,621.00	0.30	166.97	1,620.95	-1.87	-1.40	1.90	0.52	0.10	115.70
1,682.00	0.33	152.97	1,681.95	-2.18	-1.28	2.21	0.13	0.05	-22.95
1,742.00	0.50	114.23	1,741.94	-2.45	-0.96	2.46	0.53	0.28	-64.57
1,803.00	0.53	101.68	1,802.94	-2.61	-0.44	2.62	0.19	0.05	-20.57
1,863.00	0.43	109.28	1,862.94	-2.74	0.04	2.74	0.20	-0.17	12.67
1,924.00	0.66	74.82	1,923.94	-2.73	0.59	2.72	0.64	0.38	-56.49
1,986.00	0.70	85.10	1,985.93	-2.60	1.32	2.58	0.21	0.06	16.58
2,047.00	0.92	105.39	2,046.93	-2.70	2.16	2.66	0.59	0.36	33.26
2,107.00	0.42	322.92	2,106.92	-2.65	2.49	2.61	2.13	-0.83	-237.45
2,167.00	1.18	296.84	2,166.92	-2.20	1.81	2.17	1.37	1.27	-43.47
2,228.00	1.03	307.18	2,227.91	-1.58	0.81	1.57	0.41	-0.25	16.95
2,289.00	1.10	309.90	2,288.90	-0.87	-0.08	0.88	0.14	0.11	4.46
2,352.00	1.50	286.13	2,351.88	-0.26	-1.33	0.28	1.05	0.63	-37.73
2,416.00	0.58	248.99	2,415.87	-0.14	-2.44	0.18	1.71	-1.44	-58.03
2,479.00	0.55	257.46	2,478.87	-0.32	-3.03	0.37	0.14	-0.05	13.44
2,542.00	0.46	230.54	2,541.86	-0.55	-3.52	0.61	0.40	-0.14	-42.73
2,605.00	0.30	199.84	2,604.86	-0.86	-3.77	0.93	0.40	-0.25	-48.73
2,668.00	0.55	227.89	2,667.86	-1.22	-4.05	1.29	0.51	0.40	44.52
2,731.00	0.64	225.94	2,730.86	-1.67	-4.53	1.75	0.15	0.14	-3.10
2,794.00	0.59	195.62	2,793.85	-2.23	-4.87	2.31	0.52	-0.08	-48.13
2,857.00	0.97	204.14	2,856.85	-3.02	-5.18	3.11	0.63	0.60	13.52
2,921.00	1.12	211.98	2,920.84	-4.05	-5.73	4.15	0.32	0.23	12.25
2,984.00	0.84	206.51	2,983.83	-4.99	-6.26	5.09	0.47	-0.44	-8.68
3,047.00	1.06	224.29	3,046.82	-5.82	-6.87	5.93	0.58	0.35	28.22
3,110.00	1.03	226.42	3,109.81	-6.62	-7.69	6.75	0.08	-0.05	3.38
3,173.00	0.75	224.72	3,172.80	-7.31	-8.39	7.45	0.45	-0.44	-2.70
Last SDI Surface MWD Survey									
3,237.00	1.28	234.03	3,236.79	-8.02	-9.26	8.18	0.86	0.83	14.55
First SDI Lateral MWD Survey									
3,300.00	2.51	244.95	3,299.76	-9.02	-11.08	9.21	2.03	1.95	17.33
3,363.00	3.85	267.28	3,362.66	-9.71	-14.45	9.95	2.86	2.13	35.44
3,427.00	5.49	265.93	3,426.45	-10.03	-19.65	10.36	2.57	2.56	-2.11
3,490.00	5.14	270.86	3,489.17	-10.20	-25.47	10.63	0.91	-0.56	7.83
3,553.00	6.19	270.36	3,551.87	-10.13	-31.69	10.67	1.67	1.67	-0.79

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook P03-2206 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7140.00ft (Original Well Elev)
Site:	S3-T22N-R6W	MD Reference:	WELL @ 7140.00ft (Original Well Elev)
Well:	Lybrook P03-2206 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,616.00	7.62	269.09	3,614.41	-10.18	-39.27	10.84	2.28	2.27	-2.02
3,680.00	9.64	270.52	3,677.68	-10.20	-48.87	11.02	3.17	3.16	2.23
3,743.00	10.64	266.95	3,739.70	-10.46	-59.95	11.47	1.87	1.59	-5.67
3,806.00	11.60	257.47	3,801.52	-12.14	-71.94	13.36	3.27	1.52	-15.05
3,869.00	13.08	255.50	3,863.06	-15.30	-85.03	16.74	2.44	2.35	-3.13
3,932.00	14.18	259.47	3,924.29	-18.50	-99.52	20.18	2.29	1.75	6.30
3,996.00	15.21	261.94	3,986.19	-21.11	-115.54	23.06	1.88	1.61	3.86
4,059.00	17.25	257.55	4,046.68	-24.28	-132.84	26.52	3.78	3.24	-6.97
4,122.00	18.89	257.10	4,106.57	-28.57	-151.91	31.14	2.61	2.60	-0.71
4,185.00	19.22	260.81	4,166.12	-32.50	-172.09	35.41	1.99	0.52	5.89
4,249.00	21.18	262.90	4,226.18	-35.62	-193.96	38.89	3.26	3.06	3.27
4,312.00	24.36	262.22	4,284.27	-38.78	-218.13	42.47	5.06	5.05	-1.08
4,375.00	26.65	259.38	4,341.13	-43.14	-244.90	47.28	4.12	3.63	-4.51
4,438.00	26.13	255.80	4,397.56	-49.15	-272.24	53.75	2.66	-0.83	-5.68
4,502.00	27.12	256.40	4,454.78	-56.04	-300.08	61.11	1.60	1.55	0.94
4,565.00	27.88	254.67	4,510.66	-63.31	-328.24	68.86	1.75	1.21	-2.75
4,628.00	27.84	255.14	4,566.36	-70.98	-356.67	77.01	0.35	-0.06	0.75
4,691.00	27.17	257.50	4,622.24	-77.86	-384.93	84.37	2.03	-1.06	3.75
4,754.00	29.59	258.52	4,677.66	-84.07	-414.22	91.07	3.92	3.84	1.62
4,817.00	30.71	257.57	4,732.14	-90.63	-445.17	98.16	1.93	1.78	-1.51
4,880.00	32.33	259.47	4,785.84	-97.17	-477.45	105.24	3.02	2.57	3.02
4,944.00	31.23	258.95	4,840.25	-103.48	-510.56	112.11	1.77	-1.72	-0.81
5,007.00	31.11	255.50	4,894.16	-110.69	-542.35	119.85	2.84	-0.19	-5.48
5,070.00	31.47	247.11	4,948.02	-121.16	-573.27	130.85	6.94	0.57	-13.32
5,102.00	31.90	242.32	4,975.25	-128.34	-588.45	138.29	7.97	1.34	-14.97
5,133.00	32.28	237.49	5,001.52	-136.60	-602.69	146.78	8.37	1.23	-15.58
5,165.00	33.55	234.42	5,028.39	-146.34	-617.09	156.76	6.55	3.97	-9.59
5,196.00	33.42	231.78	5,054.24	-156.60	-630.77	167.26	4.72	-0.42	-8.52
5,228.00	33.77	229.10	5,080.90	-167.88	-644.41	178.76	4.76	1.09	-8.38
5,259.00	34.92	226.15	5,106.49	-179.67	-657.32	190.77	6.52	3.71	-9.52
5,291.00	36.11	222.23	5,132.54	-193.00	-670.27	204.32	8.03	3.72	-12.25
5,323.00	37.18	219.37	5,158.22	-207.46	-682.74	218.98	6.30	3.34	-8.94
5,354.00	39.24	218.50	5,182.58	-222.37	-694.79	234.10	6.87	6.65	-2.81
5,386.00	41.29	215.86	5,207.00	-238.85	-707.28	250.79	8.33	6.41	-8.25
5,417.00	43.70	215.04	5,229.85	-255.91	-719.42	268.05	7.98	7.77	-2.65
5,449.00	46.30	214.99	5,252.48	-274.44	-732.40	286.80	8.13	8.13	-0.16
5,480.00	49.21	214.54	5,273.32	-293.29	-745.48	305.87	9.45	9.39	-1.45
5,512.00	51.93	213.46	5,293.64	-313.78	-759.30	326.59	8.89	8.50	-3.38
5,544.00	53.88	211.83	5,312.94	-335.28	-773.06	348.32	7.32	6.09	-5.09
5,575.00	55.53	207.98	5,330.86	-357.21	-785.66	370.46	11.45	5.32	-12.42
5,617.00	58.59	203.60	5,353.70	-388.94	-800.97	402.44	11.39	7.29	-10.43
5,636.00	60.04	202.23	5,363.39	-403.99	-807.33	417.60	9.83	7.63	-7.21
5,667.00	62.78	200.45	5,378.23	-429.34	-817.23	443.11	10.18	8.84	-5.74

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook P03-2206 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7140.00ft (Original Well Elev)
Site:	S3-T22N-R6W	MD Reference:	WELL @ 7140.00ft (Original Well Elev)
Well:	Lybrook P03-2206 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Grand Junction District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,699.00	65.76	197.64	5,392.12	-456.59	-826.63	470.51	12.22	9.31	-8.78	
5,731.00	70.09	195.49	5,404.15	-485.00	-835.07	499.07	14.89	13.53	-6.72	
5,762.00	74.68	194.28	5,413.53	-513.55	-842.65	527.74	15.27	14.81	-3.90	
5,794.00	78.49	191.77	5,420.95	-543.87	-849.66	558.17	14.14	11.91	-7.84	
5,825.00	80.75	192.21	5,426.53	-573.69	-856.00	588.10	7.42	7.29	1.42	
5,857.00	81.57	191.40	5,431.45	-604.64	-862.46	619.16	3.58	2.56	-2.53	
5,889.00	84.79	189.13	5,435.25	-635.90	-868.12	650.51	12.28	10.06	-7.09	
5,920.00	88.39	185.77	5,437.10	-666.58	-872.13	681.25	15.87	11.61	-10.84	
5,952.00	89.80	183.49	5,437.60	-698.47	-874.72	713.18	8.38	4.41	-7.13	
Last SDI Lateral MWD Survey										
5,984.00	90.17	183.49	5,437.61	-730.41	-876.66	745.14	1.16	1.16	0.00	
First SDI Lateral MWD Survey										
6,015.00	90.50	181.41	5,437.43	-761.38	-877.99	776.13	6.79	1.06	-6.71	
6,047.00	90.33	179.76	5,437.20	-793.37	-878.31	808.13	5.18	-0.53	-5.16	
6,110.00	91.01	180.30	5,436.46	-856.37	-878.35	871.12	1.38	1.08	0.86	
6,173.00	90.57	179.68	5,435.59	-919.36	-878.34	934.10	1.21	-0.70	-0.98	
6,236.00	90.88	179.60	5,434.79	-982.36	-877.94	997.08	0.51	0.49	-0.13	
6,300.00	89.97	179.11	5,434.32	-1,046.35	-877.22	1,061.05	1.61	-1.42	-0.77	
6,363.00	90.51	180.47	5,434.06	-1,109.35	-876.99	1,124.03	2.32	0.86	2.16	
6,426.00	90.07	181.04	5,433.74	-1,172.34	-877.82	1,187.03	1.14	-0.70	0.90	
6,489.00	90.40	181.30	5,433.48	-1,235.33	-879.11	1,250.03	0.67	0.52	0.41	
6,553.00	91.10	181.46	5,432.64	-1,299.30	-880.65	1,314.02	1.12	1.09	0.25	
6,616.00	89.03	180.10	5,432.57	-1,362.29	-881.50	1,377.02	3.93	-3.29	-2.16	
6,679.00	88.46	179.26	5,433.95	-1,425.27	-881.15	1,439.99	1.61	-0.90	-1.33	
6,743.00	89.73	179.54	5,434.96	-1,489.26	-880.48	1,503.95	2.03	1.98	0.44	
6,806.00	90.97	180.55	5,434.58	-1,552.26	-880.53	1,566.94	2.54	1.97	1.60	
6,869.00	90.74	180.88	5,433.64	-1,615.25	-881.32	1,629.93	0.64	-0.37	0.52	
6,932.00	92.06	181.88	5,432.10	-1,678.21	-882.84	1,692.91	2.63	2.10	1.59	
6,995.00	90.91	180.45	5,430.46	-1,741.17	-884.12	1,755.89	2.91	-1.83	-2.27	
7,059.00	89.73	178.15	5,430.11	-1,805.16	-883.33	1,819.85	4.04	-1.84	-3.59	
7,122.00	90.30	177.47	5,430.09	-1,868.11	-880.93	1,882.76	1.41	0.90	-1.08	
7,185.00	90.47	176.49	5,429.67	-1,931.02	-877.61	1,945.60	1.58	0.27	-1.56	
7,248.00	91.51	175.73	5,428.58	-1,993.87	-873.33	2,008.37	2.04	1.65	-1.21	
7,312.00	92.79	179.37	5,426.18	-2,057.75	-870.60	2,072.19	6.03	2.00	5.69	
7,374.00	92.02	180.42	5,423.57	-2,119.69	-870.49	2,134.13	2.10	-1.24	1.69	
7,438.00	91.85	181.52	5,421.41	-2,183.65	-871.57	2,198.09	1.74	-0.27	1.72	
7,501.00	90.92	180.23	5,419.89	-2,246.62	-872.53	2,261.07	2.52	-1.48	-2.05	
7,564.00	90.00	178.70	5,419.38	-2,309.61	-871.94	2,324.04	2.83	-1.46	-2.43	
7,627.00	90.74	178.97	5,418.98	-2,372.60	-870.66	2,387.00	1.25	1.17	0.43	
7,691.00	91.85	180.67	5,417.53	-2,436.58	-870.46	2,450.96	3.17	1.73	2.66	
7,754.00	92.32	182.10	5,415.24	-2,499.52	-871.98	2,513.92	2.39	0.75	2.27	
7,817.00	91.01	181.25	5,413.41	-2,562.46	-873.82	2,576.89	2.48	-2.08	-1.35	
7,880.00	91.48	183.28	5,412.04	-2,625.39	-876.31	2,639.85	3.31	0.75	3.22	
7,944.00	90.47	184.38	5,410.95	-2,689.24	-880.59	2,703.76	2.33	-1.58	1.72	

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook P03-2206 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7140.00ft (Original Well Elev)
Site:	S3-T22N-R6W	MD Reference:	WELL @ 7140.00ft (Original Well Elev)
Well:	Lybrook P03-2206 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,007.00	88.76	183.60	5,411.37	-2,752.08	-884.97	2,766.67	2.98	-2.71	-1.24
8,070.00	88.60	182.01	5,412.82	-2,814.99	-888.05	2,829.62	2.54	-0.25	-2.52
8,133.00	89.19	182.06	5,414.04	-2,877.94	-890.29	2,892.60	0.94	0.94	0.08
8,196.00	90.47	182.61	5,414.23	-2,940.88	-892.85	2,955.58	2.21	2.03	0.87
8,259.00	91.15	182.37	5,413.34	-3,003.82	-895.59	3,018.55	1.14	1.08	-0.38
8,319.00	91.92	182.80	5,411.73	-3,063.73	-898.30	3,078.50	1.47	1.28	0.72
8,379.00	91.71	183.21	5,409.83	-3,123.62	-901.44	3,138.43	0.77	-0.35	0.68
8,440.00	91.18	183.97	5,408.29	-3,184.48	-905.26	3,199.35	1.52	-0.87	1.25
8,500.00	90.68	184.53	5,407.32	-3,244.31	-909.70	3,259.24	1.25	-0.83	0.93
8,561.00	91.45	183.82	5,406.18	-3,305.13	-914.14	3,320.14	1.72	1.26	-1.16
8,623.00	91.62	183.83	5,404.52	-3,366.97	-918.28	3,382.04	0.27	0.27	0.02
8,684.00	90.91	181.94	5,403.18	-3,427.88	-921.35	3,442.98	3.31	-1.16	-3.10
8,745.00	90.13	181.01	5,402.62	-3,488.85	-922.92	3,503.98	1.99	-1.28	-1.52
8,805.00	89.16	181.20	5,402.99	-3,548.84	-924.08	3,563.98	1.65	-1.62	0.32
8,866.00	89.36	180.75	5,403.78	-3,609.83	-925.11	3,624.97	0.81	0.33	-0.74
8,926.00	90.37	180.72	5,403.92	-3,669.82	-925.88	3,684.97	1.68	1.68	-0.05
8,987.00	91.65	181.88	5,402.85	-3,730.79	-927.27	3,745.96	2.83	2.10	1.90
9,047.00	90.44	182.11	5,401.75	-3,790.75	-929.36	3,805.94	2.05	-2.02	0.38
9,108.00	90.13	182.34	5,401.45	-3,851.70	-931.72	3,866.92	0.63	-0.51	0.38
9,169.00	89.63	179.94	5,401.58	-3,912.68	-932.94	3,927.92	4.02	-0.82	-3.93
9,230.00	88.79	180.93	5,402.42	-3,973.67	-933.40	3,988.91	2.13	-1.38	1.62
9,291.00	89.30	181.08	5,403.43	-4,034.66	-934.47	4,049.90	0.87	0.84	0.25
9,351.00	89.53	180.14	5,404.05	-4,094.65	-935.11	4,109.89	1.61	0.38	-1.57
9,412.00	90.03	179.02	5,404.28	-4,155.64	-934.66	4,170.87	2.01	0.82	-1.84
9,475.00	90.33	179.50	5,404.08	-4,218.64	-933.85	4,233.84	0.90	0.48	0.76
9,536.00	89.73	180.23	5,404.05	-4,279.64	-933.70	4,294.83	1.55	-0.98	1.20
9,597.00	90.07	178.43	5,404.16	-4,340.63	-932.99	4,355.80	3.00	0.56	-2.95
9,657.00	90.00	179.07	5,404.12	-4,400.62	-931.68	4,415.76	1.07	-0.12	1.07
9,718.00	91.21	179.35	5,403.48	-4,461.61	-930.84	4,476.73	2.04	1.98	0.46
9,779.00	90.97	181.49	5,402.32	-4,522.59	-931.29	4,537.71	3.53	-0.39	3.51
9,839.00	90.78	183.27	5,401.40	-4,582.53	-933.78	4,597.68	2.98	-0.32	2.97
9,899.00	89.66	183.28	5,401.17	-4,642.43	-937.21	4,657.63	1.87	-1.87	0.02
9,960.00	90.47	184.97	5,401.10	-4,703.27	-941.59	4,718.53	3.07	1.33	2.77
10,021.00	90.30	185.11	5,400.69	-4,764.03	-946.95	4,779.38	0.36	-0.28	0.23
10,082.00	88.96	182.72	5,401.09	-4,824.88	-951.12	4,840.29	4.49	-2.20	-3.92
10,143.00	88.59	182.93	5,402.39	-4,885.79	-954.12	4,901.25	0.70	-0.61	0.34
10,203.00	88.56	182.49	5,403.88	-4,945.71	-956.96	4,961.20	0.73	-0.05	-0.73
10,264.00	89.50	181.69	5,404.91	-5,006.66	-959.18	5,022.18	2.02	1.54	-1.31
10,325.00	91.24	181.78	5,404.52	-5,067.63	-961.03	5,083.17	2.86	2.85	0.15
10,386.00	91.62	183.80	5,403.00	-5,128.53	-964.00	5,144.12	3.37	0.62	3.31
10,446.00	92.06	183.66	5,401.07	-5,188.37	-967.90	5,204.02	0.77	0.73	-0.23
10,507.00	90.40	181.30	5,399.76	-5,249.30	-970.54	5,264.97	4.73	-2.72	-3.87
10,567.00	89.60	180.05	5,399.76	-5,309.29	-971.24	5,324.97	2.47	-1.33	-2.08

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook P03-2206 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7140.00ft (Original Well Elev)
Site:	S3-T22N-R6W	MD Reference:	WELL @ 7140.00ft (Original Well Elev)
Well:	Lybrook P03-2206 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,627.00	90.40	177.95	5,399.76	-5,369.28	-970.20	5,384.93	3.75	1.33	-3.50
10,690.00	91.10	177.59	5,398.94	-5,432.22	-967.75	5,447.83	1.25	1.11	-0.57
10,721.00	91.34	178.10	5,398.28	-5,463.19	-966.58	5,478.77	1.82	0.77	1.65
10,784.00	91.19	176.10	5,396.89	-5,526.10	-963.39	5,541.61	3.18	-0.24	-3.17
10,847.00	91.85	178.54	5,395.21	-5,589.00	-960.45	5,604.46	4.01	1.05	3.87
10,911.00	90.94	179.49	5,393.66	-5,652.97	-959.35	5,668.40	2.06	-1.42	1.48
10,974.00	90.74	179.00	5,392.73	-5,715.96	-958.52	5,731.36	0.84	-0.32	-0.78
11,037.00	91.11	180.01	5,391.72	-5,778.95	-957.98	5,794.33	1.71	0.59	1.60
11,100.00	89.80	178.53	5,391.22	-5,841.93	-957.17	5,857.30	3.14	-2.08	-2.35
11,164.00	90.13	178.81	5,391.25	-5,905.92	-955.69	5,921.25	0.68	0.52	0.44
11,227.00	90.74	177.30	5,390.78	-5,968.88	-953.55	5,984.16	2.58	0.97	-2.40
11,290.00	89.90	178.21	5,390.42	-6,031.83	-951.08	6,047.06	1.97	-1.33	1.44
11,353.00	89.97	177.30	5,390.50	-6,094.78	-948.61	6,109.96	1.45	0.11	-1.44
11,417.00	89.70	178.92	5,390.68	-6,158.74	-946.50	6,173.88	2.57	-0.42	2.53
11,480.00	90.00	178.37	5,390.85	-6,221.72	-945.01	6,236.83	0.99	0.48	-0.87
11,543.00	90.00	179.96	5,390.85	-6,284.71	-944.10	6,299.80	2.52	0.00	2.52
11,607.00	90.88	182.10	5,390.35	-6,348.70	-945.25	6,363.79	3.62	1.38	3.34
11,670.00	91.36	181.72	5,389.12	-6,411.65	-947.35	6,426.77	0.97	0.76	-0.60
11,733.00	92.02	181.01	5,387.26	-6,474.60	-948.85	6,489.74	1.54	1.05	-1.13
11,796.00	91.80	181.46	5,385.16	-6,537.55	-950.20	6,552.70	0.79	-0.35	0.71
11,860.00	90.91	183.57	5,383.65	-6,601.47	-953.01	6,616.66	3.58	-1.39	3.30
11,923.00	90.03	183.59	5,383.13	-6,664.34	-956.94	6,679.59	1.40	-1.40	0.03
11,986.00	89.69	184.80	5,383.29	-6,727.17	-961.55	6,742.49	2.00	-0.54	1.92
12,050.00	89.03	182.78	5,384.00	-6,791.03	-965.78	6,806.40	3.32	-1.03	-3.16
12,139.00	89.26	182.45	5,385.33	-6,879.92	-969.84	6,895.36	0.45	0.26	-0.37
12,203.00	89.87	182.19	5,385.82	-6,943.87	-972.43	6,959.34	1.04	0.95	-0.41
12,266.00	90.94	182.01	5,385.37	-7,006.82	-974.74	7,022.32	1.72	1.70	-0.29
12,329.00	91.61	181.50	5,383.97	-7,069.78	-976.67	7,085.30	1.34	1.06	-0.81
12,393.00	92.12	181.27	5,381.89	-7,133.73	-978.22	7,149.26	0.87	0.80	-0.36
12,456.00	91.51	180.10	5,379.89	-7,196.69	-978.97	7,212.23	2.09	-0.97	-1.86
12,519.00	90.24	181.15	5,378.93	-7,259.67	-979.66	7,275.22	2.62	-2.02	1.67
12,582.00	90.10	181.27	5,378.74	-7,322.66	-980.99	7,338.22	0.29	-0.22	0.19
12,646.00	89.90	180.48	5,378.74	-7,386.65	-981.96	7,402.22	1.27	-0.31	-1.23
12,709.00	90.50	179.89	5,378.52	-7,449.65	-982.17	7,465.21	1.34	0.95	-0.94
12,772.00	91.44	180.01	5,377.46	-7,512.64	-982.11	7,528.19	1.50	1.49	0.19
12,835.00	91.95	179.47	5,375.59	-7,575.61	-981.83	7,591.15	1.18	0.81	-0.86
12,899.00	91.31	180.04	5,373.77	-7,639.59	-981.55	7,655.11	1.34	-1.00	0.89
12,962.00	90.97	180.82	5,372.52	-7,702.57	-982.03	7,718.09	1.35	-0.54	1.24
13,025.00	89.50	180.13	5,372.26	-7,765.57	-982.55	7,781.09	2.58	-2.33	-1.10
13,089.00	89.39	179.66	5,372.88	-7,829.56	-982.43	7,845.07	0.75	-0.17	-0.73
13,152.00	89.76	179.49	5,373.35	-7,892.56	-981.96	7,908.05	0.65	0.59	-0.27
13,215.00	89.60	178.48	5,373.70	-7,955.55	-980.85	7,971.01	1.62	-0.25	-1.60
13,278.00	90.81	178.56	5,373.47	-8,018.52	-979.22	8,033.95	1.92	1.92	0.13

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook P03-2206 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7140.00ft (Original Well Elev)
Site:	S3-T22N-R6W	MD Reference:	WELL @ 7140.00ft (Original Well Elev)
Well:	Lybrook P03-2206 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Grand Junction District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,317.00	91.38	178.22	5,372.73	-8,057.50	-978.13	8,072.91	1.70	1.46	-0.87	
Last SDI Lateral MWD Survey										
13,375.00	91.38	178.22	5,371.33	-8,115.46	-976.32	8,130.82	0.00	0.00	0.00	
Projection to TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
568.00	567.99	1.61	2.90	First SDI Surface MWD Survey	
3,173.00	3,172.80	-7.31	-8.39	Last SDI Surface MWD Survey	
3,237.00	3,236.79	-8.02	-9.26	First SDI Lateral MWD Survey	
5,952.00	5,437.60	-698.47	-874.72	Last SDI Lateral MWD Survey	
5,984.00	5,437.61	-730.41	-876.66	First SDI Lateral MWD Survey	
13,317.00	5,372.73	-8,057.50	-978.13	Last SDI Lateral MWD Survey	
13,375.00	5,371.33	-8,115.46	-976.32	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____