

CONFIDENTIAL

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

RCVD FEB 14 '13
OIL CONS. DIV.

*API Number 30-043-21133		*Pool Code 97232	*Pool Name BASIN MANCOS	*DIST. 3
*Property Code 39120	*Property Name LYBROOK H26-2307			*Well Number 02H
*OGRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.			*Elevation 7233'

¹⁰ Surface Location

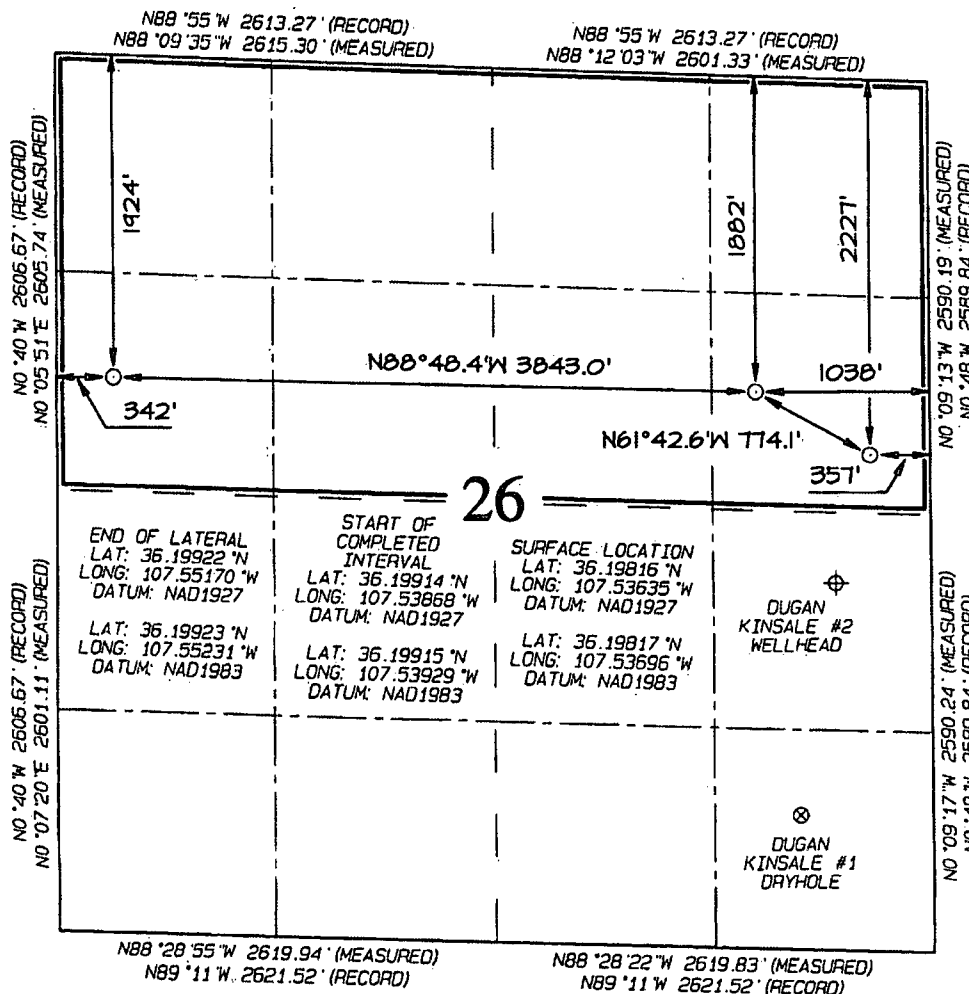
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	26	23N	7W		2227	NORTH	357	EAST	SANDOVAL

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	East/West line	County
E	26	23N	7W		1924	NORTH	342	WEST	SANDOVAL

¹² Dedicated Acres 320.0 Acres - (N/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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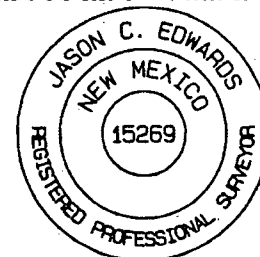
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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.

Holly Hill 2/12/13
Signature Date
Holly Hill
Printed Name
holly.hill@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.
Survey Date: OCTOBER 3, 2012
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

DEVIATION SURVEYS

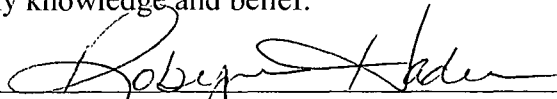
MD (Feet)	Inclination (Degree)
528	.40
742	.80
987	1.00
1170	.50
1606	1.10
1987	.20
2242	.50
2558	.40
2876	.40
3192	.40
3510	.40
3828	.60
4144	.60
4461	.70
4507	1.20

RCVD FEB 7 '13
OIL CONS. DIV.
DIST. 3

CONFIDENTIAL

OPERATOR CERTIFICATION

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

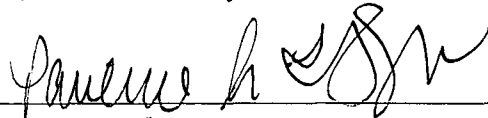

Robynn Haden, Engineering Technologist
2/4/13
2/4/13

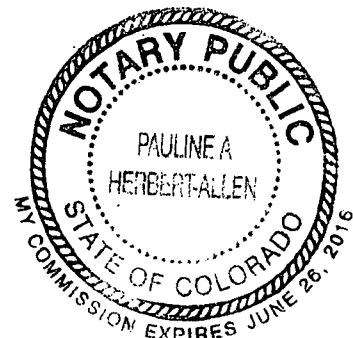
ACKNOWLEDGMENT

State of Colorado
City and County of Denver

This instrument was acknowledged before me on this 4th day of February, 2013 by Robynn Haden as Attorney in Fact of Encana Oil & Gas (USA) Inc., on behalf of said corporation.

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

Notary Public: 
My Commission Expires: June 26, 2016



		HZ		
		Lytbrook H26-2307 02H		
		WELL @ 72.47 OH (Original Well)		
		GL @ 72.34		
		North American Datum 1983		
		Well Lytbrook H26-2307 02H, True North		
Type	Target	Azimuth	Origin Type	
User	No Target (Freehand)	271.05	Sht	
		TVD	-N+S	
Lytbrook H26-2307 02H BHL (10.17)		5216.1	430.0	-545.1
Lytbrook H26-2307 02H TGT (10.17)		5237.1	356.8	-548.9
Lytbrook H26-2307 02H BHL (12.20)		5237.1	430.0	-545.1
Lytbrook H26-2307 02H TGT (12.20)		5250.7	356.8	-548.9
Lytbrook H26-2307 02H BHL (12.19)		5293.0	430.0	-545.1
Lytbrook H26-2307 02H TGT (12.19)		5306.5	356.8	-548.9

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site:	Lybrook	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Well:	Lybrook H26-2307 02H	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	HZ	Database:	USA EDM 5000 Multi Users DB

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	Lybrook				
Site Position:		Northing:	1,882,676.45 ft	Latitude:	36.168210
From:	Lat/Long	Easting:	1,287,068.90 ft	Longitude:	-107.447150
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.71 °

Well	Lybrook H26-2307 02H					
Well Position	+N/-S	0.0 ft	Northing:	1,893,922.34 ft	Latitude:	36.198170
	+E/-W	0.0 ft	Easting:	1,260,703.90 ft	Longitude:	-107.536960
Position Uncertainty	0.0 ft		Wellhead Elevation:	ft	Ground Level:	7,234.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/27/2012	9.60	63.01	50,337

Design	HZ			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	271.05

Survey Program		Date	1/9/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
528.0	9,640.0	Survey #1 (HZ)	MWD	Geolink MWD	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
528.0	0.40	17.60	528.0	1.8	0.6	-0.5	0.08	0.08	
558.0	0.30	69.30	558.0	1.9	0.7	-0.6	1.06	-0.33	
619.0	0.70	48.40	619.0	2.2	1.1	-1.1	0.71	0.66	
680.0	0.90	22.50	680.0	2.9	1.6	-1.5	0.67	0.33	
742.0	0.80	43.20	742.0	3.6	2.0	-2.0	0.52	-0.16	
803.0	0.70	37.30	803.0	4.3	2.6	-2.5	0.21	-0.16	
864.0	0.90	24.10	864.0	5.0	3.0	-2.9	0.44	0.33	
926.0	0.60	37.90	926.0	5.7	3.4	-3.3	0.56	-0.48	
987.0	1.00	18.30	987.0	6.4	3.7	-3.6	0.79	0.66	
1,048.0	0.80	38.80	1,048.0	7.3	4.2	-4.0	0.62	-0.33	
1,109.0	0.50	287.90	1,108.9	7.7	4.2	-4.0	1.78	-0.49	
1,170.0	0.50	322.10	1,169.9	8.0	3.8	-3.6	0.48	0.00	

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Site:	Lybrook	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Well:	Lybrook H26-2307 02H	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	HZ	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,231.0	0.70	288.40	1,230.9	8.3	3.2	-3.1	0.65	0.33	
1,293.0	0.40	317.70	1,292.9	8.6	2.7	-2.6	0.65	-0.48	
1,354.0	0.60	321.10	1,353.9	9.0	2.4	-2.2	0.33	0.33	
1,415.0	0.90	295.20	1,414.9	9.5	1.8	-1.6	0.73	0.49	
1,479.0	0.90	252.30	1,478.9	9.5	0.8	-0.7	1.03	0.00	
1,542.0	0.60	194.10	1,541.9	9.0	0.3	-0.1	1.23	-0.48	
1,606.0	1.10	200.80	1,605.9	8.1	0.0	0.2	0.80	0.78	
1,670.0	0.40	184.50	1,669.9	7.3	-0.3	0.4	1.13	-1.09	
1,733.0	0.30	141.30	1,732.9	7.0	-0.2	0.3	0.43	-0.16	
1,797.0	0.30	99.60	1,796.9	6.8	0.1	0.0	0.33	0.00	
1,860.0	0.00	187.20	1,859.9	6.8	0.3	-0.1	0.48	-0.48	
1,924.0	0.10	158.90	1,923.9	6.8	0.3	-0.2	0.16	0.16	
1,987.0	0.20	157.10	1,986.9	6.6	0.3	-0.2	0.16	0.16	
2,051.0	0.50	144.20	2,050.9	6.3	0.6	-0.4	0.48	0.47	
2,115.0	0.60	159.60	2,114.9	5.7	0.8	-0.7	0.28	0.16	
2,179.0	0.40	250.80	2,178.9	5.3	0.7	-0.6	1.14	-0.31	
2,242.0	0.50	279.60	2,241.9	5.3	0.3	-0.2	0.39	0.16	
2,306.0	0.00	65.50	2,305.9	5.4	0.0	0.1	0.78	-0.78	
2,369.0	0.40	228.10	2,368.9	5.2	-0.2	0.3	0.63	0.63	
2,432.0	0.40	221.00	2,431.9	4.9	-0.5	0.6	0.08	0.00	
2,495.0	0.40	182.80	2,494.9	4.5	-0.6	0.7	0.42	0.00	
2,558.0	0.40	79.80	2,557.9	4.3	-0.4	0.5	0.99	0.00	
2,622.0	0.70	42.00	2,621.9	4.7	0.0	0.0	0.71	0.47	
2,686.0	0.60	46.60	2,685.9	5.2	0.6	-0.5	0.18	-0.16	
2,749.0	0.50	80.60	2,748.9	5.5	1.1	-1.0	0.53	-0.16	
2,812.0	0.50	53.20	2,811.9	5.7	1.6	-1.4	0.38	0.00	
2,876.0	0.40	16.10	2,875.9	6.1	1.8	-1.7	0.47	-0.16	
2,939.0	0.20	81.10	2,938.9	6.3	2.0	-1.9	0.58	-0.32	
3,002.0	0.50	35.00	3,001.9	6.5	2.3	-2.2	0.62	0.48	
3,065.0	0.50	31.60	3,064.9	7.0	2.6	-2.4	0.05	0.00	
3,129.0	0.20	31.90	3,128.9	7.3	2.8	-2.6	0.47	-0.47	
3,192.0	0.40	30.00	3,191.9	7.6	2.9	-2.8	0.32	0.32	
3,256.0	0.30	300.70	3,255.9	7.9	2.9	-2.8	0.78	-0.16	
3,320.0	0.30	327.40	3,319.9	8.1	2.7	-2.5	0.22	0.00	
3,383.0	0.40	250.80	3,382.9	8.2	2.4	-2.2	0.70	0.16	
3,446.0	0.40	232.10	3,445.9	8.0	2.0	-1.9	0.21	0.00	
3,510.0	0.40	249.20	3,509.9	7.8	1.6	-1.5	0.19	0.00	
3,573.0	0.50	198.70	3,572.9	7.4	1.3	-1.2	0.63	0.16	
3,637.0	0.50	235.00	3,636.9	7.0	1.0	-0.9	0.49	0.00	
3,700.0	0.50	39.80	3,699.9	7.0	1.0	-0.8	1.57	0.00	
3,764.0	0.70	40.30	3,763.9	7.6	1.4	-1.3	0.31	0.31	
3,828.0	0.60	75.60	3,827.9	7.9	2.0	-1.8	0.63	-0.16	
3,891.0	0.60	91.20	3,890.9	8.0	2.6	-2.5	0.26	0.00	
3,954.0	0.60	88.60	3,953.8	8.0	3.3	-3.1	0.04	0.00	
4,017.0	0.80	78.20	4,016.8	8.1	4.0	-3.9	0.37	0.32	
4,081.0	0.70	128.30	4,080.8	8.0	4.8	-4.6	1.00	-0.16	
4,144.0	0.60	84.60	4,143.8	7.8	5.4	-5.3	0.78	-0.16	
4,207.0	0.60	54.60	4,206.8	8.0	6.0	-5.9	0.49	0.00	
4,271.0	0.40	27.40	4,270.8	8.4	6.4	-6.2	0.48	-0.31	
4,335.0	0.40	38.60	4,334.8	8.7	6.6	-6.5	0.12	0.00	
4,398.0	0.70	31.10	4,397.8	9.2	7.0	-6.8	0.49	0.48	
4,461.0	0.70	24.10	4,460.8	9.9	7.3	-7.1	0.14	0.00	
4,476.0	0.40	41.50	4,475.8	10.0	7.4	-7.2	2.27	-2.00	

Cathedral Energy Services

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Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	HZ	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
4,507.0	1.20	8.10	4,506.8	10.4	7.5	-7.3	2.88	2.58	
4,539.0	5.80	2.60	4,538.7	12.4	7.6	-7.4	14.40	14.37	
4,571.0	10.50	2.00	4,570.4	16.9	7.8	-7.5	14.69	14.69	
4,602.0	13.80	4.20	4,600.7	23.4	8.2	-7.7	10.75	10.65	
4,634.0	16.20	5.50	4,631.6	31.7	8.9	-8.3	7.57	7.50	
4,666.0	19.90	6.60	4,662.0	41.5	9.9	-9.2	11.61	11.56	
4,697.0	22.90	6.60	4,690.9	52.8	11.2	-10.3	9.68	9.68	
4,729.0	24.70	5.60	4,720.2	65.6	12.6	-11.4	5.76	5.62	
4,761.0	27.00	3.10	4,749.0	79.5	13.6	-12.2	7.95	7.19	
4,793.0	29.70	0.80	4,777.1	94.7	14.2	-12.4	9.10	8.44	
4,824.0	32.20	356.50	4,803.7	110.6	13.8	-11.7	10.76	8.06	
4,856.0	34.20	350.70	4,830.5	128.0	11.8	-9.4	11.72	6.25	
4,888.0	37.10	345.60	4,856.5	146.3	7.9	-5.2	12.97	9.06	
4,919.0	39.80	339.30	4,880.8	164.6	2.1	0.9	15.34	8.71	
4,951.0	42.10	334.20	4,905.0	183.9	-6.2	9.6	12.67	7.19	
4,983.0	43.90	328.70	4,928.4	203.0	-16.6	20.4	13.00	5.62	
5,015.0	45.30	322.80	4,951.2	221.6	-29.3	33.3	13.66	4.37	
5,046.0	46.80	317.00	4,972.7	238.6	-43.7	48.0	14.31	4.84	
5,078.0	48.40	310.50	4,994.3	254.9	-60.7	65.4	15.81	5.00	
5,110.0	48.30	308.20	5,015.6	270.1	-79.2	84.1	5.38	-0.31	
5,142.0	48.50	302.10	5,036.8	283.8	-98.8	103.9	14.27	0.62	
5,174.0	52.00	298.10	5,057.3	296.1	-120.0	125.5	14.56	10.94	
5,205.0	55.00	294.20	5,075.7	307.1	-142.4	148.0	13.99	9.68	
5,237.0	55.40	288.60	5,094.0	316.7	-166.9	172.6	14.42	1.25	
5,269.0	57.40	283.40	5,111.7	324.0	-192.5	198.4	14.91	6.25	
5,301.0	60.10	280.70	5,128.3	329.7	-219.2	225.2	11.10	8.44	
5,332.0	62.20	278.60	5,143.3	334.3	-246.0	252.1	9.00	6.77	
5,364.0	63.90	275.70	5,157.8	337.8	-274.3	280.4	9.67	5.31	
5,396.0	64.40	275.90	5,171.7	340.7	-302.9	309.1	1.66	1.56	
5,428.0	65.80	275.60	5,185.2	343.6	-331.8	338.1	4.46	4.37	
5,459.0	66.20	276.40	5,197.8	346.6	-360.0	366.3	2.69	1.29	
5,491.0	67.80	275.20	5,210.3	349.6	-389.3	395.6	6.08	5.00	
5,523.0	69.50	274.80	5,222.0	352.2	-419.0	425.4	5.44	5.31	
5,555.0	70.10	274.20	5,233.0	354.5	-448.9	455.3	2.57	1.87	
5,586.0	70.70	273.60	5,243.4	356.5	-478.0	484.5	2.66	1.94	
5,618.0	71.40	272.90	5,253.8	358.2	-508.3	514.7	3.01	2.19	
5,650.0	73.50	272.50	5,263.5	359.7	-538.7	545.2	6.67	6.56	
5,681.0	75.40	273.10	5,271.8	361.1	-568.6	575.1	6.41	6.13	
5,708.0	77.60	272.40	5,278.1	362.4	-594.8	601.3	8.53	8.15	
5,725.0	79.00	273.20	5,281.5	363.2	-611.4	618.0	9.44	8.24	
5,755.0	81.80	273.80	5,286.5	365.0	-640.9	647.5	9.54	9.33	
5,786.0	86.90	272.30	5,289.6	366.6	-671.7	678.3	17.14	16.45	
5,817.0	88.30	271.70	5,290.9	367.7	-702.7	709.3	4.91	4.52	
5,847.0	88.60	272.40	5,291.7	368.8	-732.7	739.3	2.54	1.00	
5,878.0	90.30	272.30	5,292.0	370.1	-763.6	770.3	5.49	5.48	
5,908.0	90.80	272.40	5,291.7	371.3	-793.6	800.3	1.70	1.67	
5,972.0	90.20	271.00	5,291.1	373.2	-857.6	864.3	2.38	-0.94	
6,035.0	90.80	270.50	5,290.6	374.0	-920.6	927.3	1.24	0.95	
6,099.0	89.00	269.60	5,290.7	374.1	-984.6	991.2	3.14	-2.81	
6,162.0	91.70	269.70	5,290.3	373.7	-1,047.5	1,054.2	4.29	4.29	
6,226.0	91.40	268.90	5,288.6	372.9	-1,111.5	1,118.2	1.33	-0.47	
6,289.0	92.60	269.80	5,286.4	372.2	-1,174.5	1,181.1	2.38	1.90	
6,352.0	93.00	270.50	5,283.3	372.3	-1,237.4	1,244.0	1.28	0.63	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site:	Lybrook	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Well:	Lybrook H26-2307 02H	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	HZ	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
6,416.0	92.80	272.80	5,280.1	374.2	-1,301.3	1,307.9	3.60	-0.31	
6,479.0	91.10	273.20	5,277.9	377.5	-1,364.2	1,370.8	2.77	-2.70	
6,543.0	88.40	272.50	5,278.2	380.7	-1,428.1	1,434.8	4.36	-4.22	
6,606.0	89.70	271.60	5,279.2	382.9	-1,491.0	1,497.8	2.51	2.06	
6,670.0	90.00	270.90	5,279.4	384.3	-1,555.0	1,561.8	1.19	0.47	
6,733.0	90.40	271.60	5,279.2	385.7	-1,618.0	1,624.8	1.28	0.63	
6,797.0	90.30	272.30	5,278.8	387.9	-1,682.0	1,688.8	1.10	-0.16	
6,860.0	90.00	271.70	5,278.6	390.1	-1,744.9	1,751.8	1.06	-0.48	
6,923.0	91.10	272.30	5,278.0	392.3	-1,807.9	1,814.8	1.99	1.75	
6,987.0	90.60	271.40	5,277.1	394.3	-1,871.8	1,878.7	1.61	-0.78	
7,050.0	90.10	270.20	5,276.7	395.2	-1,934.8	1,941.7	2.06	-0.79	
7,114.0	90.30	269.70	5,276.5	395.2	-1,998.8	2,005.7	0.84	0.31	
7,177.0	89.90	269.40	5,276.4	394.7	-2,061.8	2,068.7	0.79	-0.63	
7,241.0	89.90	270.20	5,276.5	394.4	-2,125.8	2,132.7	1.25	0.00	
7,305.0	91.10	272.20	5,275.9	395.8	-2,189.8	2,196.7	3.64	1.87	
7,368.0	90.80	272.80	5,274.9	398.5	-2,252.7	2,259.7	1.06	-0.48	
7,432.0	90.20	272.40	5,274.3	401.4	-2,316.7	2,323.6	1.13	-0.94	
7,496.0	90.30	271.10	5,274.0	403.4	-2,380.6	2,387.6	2.04	0.16	
7,559.0	89.60	270.60	5,274.1	404.3	-2,443.6	2,450.6	1.37	-1.11	
7,623.0	90.50	270.80	5,274.0	405.1	-2,507.6	2,514.6	1.44	1.41	
7,686.0	90.20	271.30	5,273.6	406.2	-2,570.6	2,577.6	0.93	-0.48	
7,750.0	90.90	271.90	5,273.0	408.0	-2,634.6	2,641.6	1.44	1.09	
7,813.0	90.40	271.90	5,272.3	410.1	-2,697.5	2,704.6	0.79	-0.79	
7,876.0	90.40	271.00	5,271.9	411.7	-2,760.5	2,767.6	1.43	0.00	
7,940.0	89.60	270.20	5,271.9	412.4	-2,824.5	2,831.6	1.77	-1.25	
8,004.0	91.00	270.90	5,271.5	413.0	-2,888.5	2,895.6	2.45	2.19	
8,068.0	90.40	271.40	5,270.8	414.3	-2,952.5	2,959.6	1.22	-0.94	
8,131.0	90.60	271.80	5,270.2	416.0	-3,015.5	3,022.6	0.71	0.32	
8,195.0	90.30	271.30	5,269.7	417.8	-3,079.4	3,086.6	0.91	-0.47	
8,258.0	90.10	271.90	5,269.5	419.5	-3,142.4	3,149.6	1.00	-0.32	
8,322.0	90.10	271.20	5,269.4	421.3	-3,206.4	3,213.6	1.09	0.00	
8,385.0	89.50	271.60	5,269.6	422.8	-3,269.4	3,276.6	1.14	-0.95	
8,449.0	90.00	271.00	5,269.9	424.3	-3,333.3	3,340.6	1.22	0.78	
8,512.0	90.90	270.20	5,269.4	424.9	-3,396.3	3,403.6	1.91	1.43	
8,576.0	90.60	270.90	5,268.5	425.5	-3,460.3	3,467.5	1.19	-0.47	
8,639.0	90.80	271.30	5,267.8	426.7	-3,523.3	3,530.5	0.71	0.32	
8,703.0	91.00	271.90	5,266.8	428.5	-3,587.3	3,594.5	0.99	0.31	
8,766.0	90.20	270.60	5,266.1	429.9	-3,650.3	3,657.5	2.42	-1.27	
8,830.0	91.50	271.60	5,265.2	431.1	-3,714.2	3,721.5	2.56	2.03	
8,893.0	91.40	271.20	5,263.6	432.7	-3,777.2	3,784.5	0.65	-0.16	
8,957.0	90.90	271.30	5,262.3	434.1	-3,841.2	3,848.5	0.80	-0.78	
9,020.0	89.80	270.20	5,261.9	434.9	-3,904.2	3,911.5	2.47	-1.75	
9,083.0	89.90	270.10	5,262.1	435.1	-3,967.2	3,974.5	0.22	0.16	
9,147.0	90.80	271.50	5,261.7	435.9	-4,031.2	4,038.5	2.60	1.41	
9,210.0	91.50	272.90	5,260.4	438.4	-4,094.1	4,101.4	2.48	1.11	
9,274.0	91.40	271.60	5,258.8	440.9	-4,158.0	4,165.4	2.04	-0.16	
9,337.0	90.30	270.60	5,257.8	442.1	-4,221.0	4,228.4	2.36	-1.75	
9,401.0	91.00	271.50	5,257.1	443.3	-4,285.0	4,292.4	1.78	1.09	
9,465.0	90.30	270.90	5,256.4	444.6	-4,349.0	4,356.4	1.44	-1.09	
9,528.0	90.70	271.10	5,255.8	445.7	-4,412.0	4,419.4	0.71	0.63	
9,590.0	90.30	270.50	5,255.3	446.6	-4,473.9	4,481.4	1.16	-0.65	Last Cathedral Survey @ 9590' MD
9,640.0	90.30	270.50	5,255.0	447.0	-4,523.9	4,531.4	0.00	0.00	Projection to Bit @ 9640' MD

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Lybrook H26-2307 02H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7247.0ft (Original Well Elev)
Site:	Lybrook	MD Reference:	WELL @ 7247.0ft (Original Well Elev)
Well:	Lybrook H26-2307 02H	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	HZ	Database:	USA EDM 5000 Multi Users DB

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Lybrook H26-2307 02H -	0.00	0.00	5,290.7	356.8	-548.9	1,894,286.39	1,260,159.82	36.199150	-107.538820
- survey misses target center by 23.7ft at 5666.9ft MD (5268.1 TVD, 360.4 N, -555.0 E)									
- Point									
Lybrook H26-2307 02H -	0.00	0.00	5,237.1	356.8	-548.9	1,894,286.39	1,260,159.82	36.199150	-107.538820
- survey misses target center by 28.3ft at 5652.5ft MD (5264.2 TVD, 359.8 N, -541.2 E)									
- Point									
Lybrook H26-2307 02H I	0.00	0.00	5,216.1	430.0	-4,541.4	1,894,412.52	1,256,168.63	36.199350	-107.552350
- survey misses target center by 45.9ft at 9640.0ft MD (5255.0 TVD, 447.0 N, -4523.9 E)									
- Point									
Lybrook H26-2307 02H I	0.00	0.00	5,293.0	430.0	-4,541.4	1,894,412.52	1,256,168.63	36.199350	-107.552350
- survey misses target center by 45.1ft at 9640.0ft MD (5255.0 TVD, 447.0 N, -4523.9 E)									
- Point									
Lybrook H26-2307 02H I	0.00	0.00	5,277.1	430.0	-4,541.4	1,894,412.52	1,256,168.63	36.199350	-107.552350
- survey misses target center by 32.9ft at 9640.0ft MD (5255.0 TVD, 447.0 N, -4523.9 E)									
- Point									
Lybrook H26-2307 02H -	0.00	0.00	5,306.9	356.8	-548.9	1,894,286.39	1,260,159.82	36.199150	-107.538820
- survey misses target center by 39.3ft at 5671.3ft MD (5269.3 TVD, 360.6 N, -559.2 E)									
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
9,590.0	5,255.3	446.6	-4,473.9	Last Cathedral Survey @ 9590' MD
9,640.0	5,255.0	447.0	-4,523.9	Projection to Bit @ 9640' MD

Checked By: _____ Approved By: _____ Date: _____