

CONFIDENTIAL

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) 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 Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT

☒ AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21208		² Pool Code 13379	³ Pool Name COUNSELORS GALLUP-DAKOTA
⁴ Property Code 313260	⁵ Property Name GALLO CANYON UNIT 027-2306		⁶ Well Number 02H
⁷ OGRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.		⁹ Elevation 6980.7'

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
0	27	23N	6W		29'	SOUTH	2012'	EAST	SANDOVAL

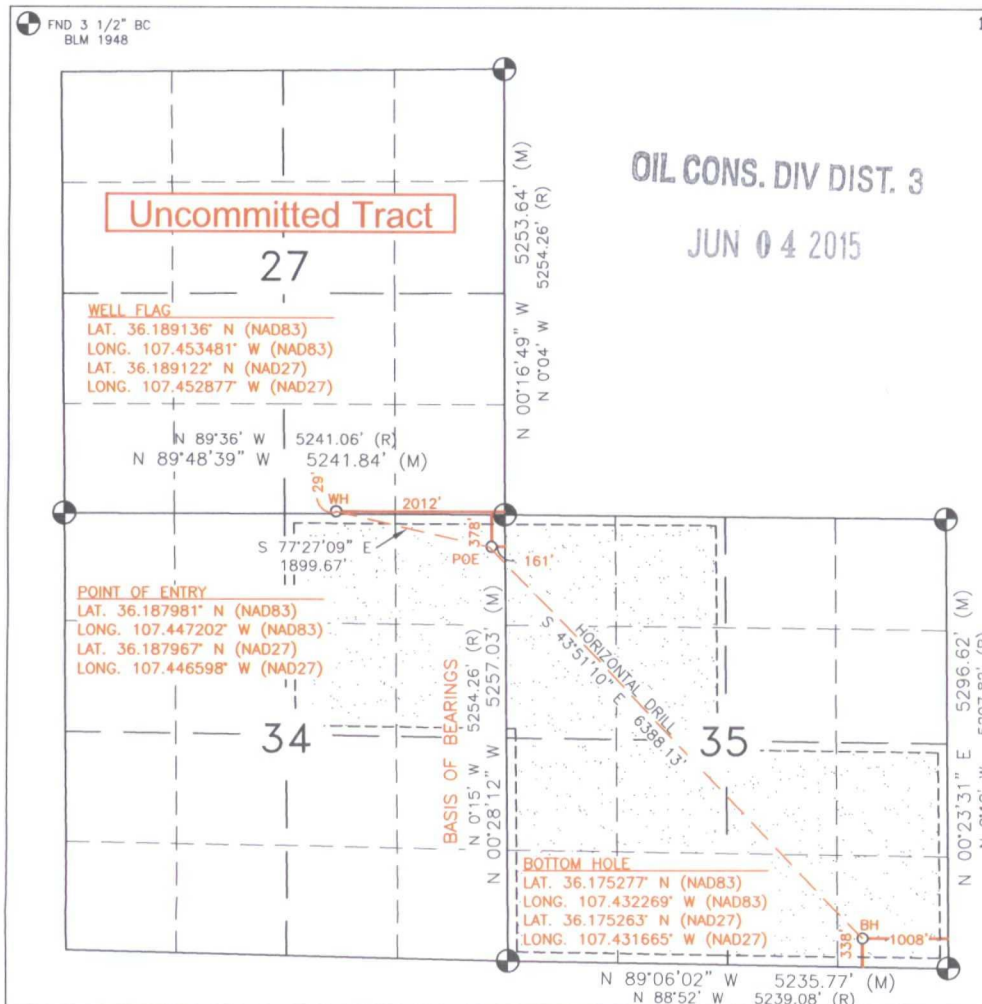
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	35	23N	6W		338'	SOUTH	1008'	EAST	SANDOVAL

¹² Dedicated Acres 5,120 Acres Sec. 22-26, 34-36 - Undivided Unit Penetrated Spacing Units; S/2 & NW Sec. 35; NE Sec. 34 - 640 Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13718-A (5,120 Acres) Committed
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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.

Katie Wegner 6/2/15
Signature Date

Katie Wegner

Printed Name

Katie.Wegner@encana.com

E-mail Address

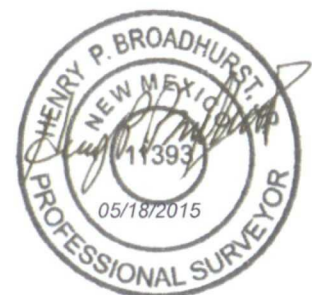
SURVEYOR CERTIFICATION

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.

APRIL 8, 2015

Date of Survey

Signature and Seal of Professional Surveyor:



AV

17

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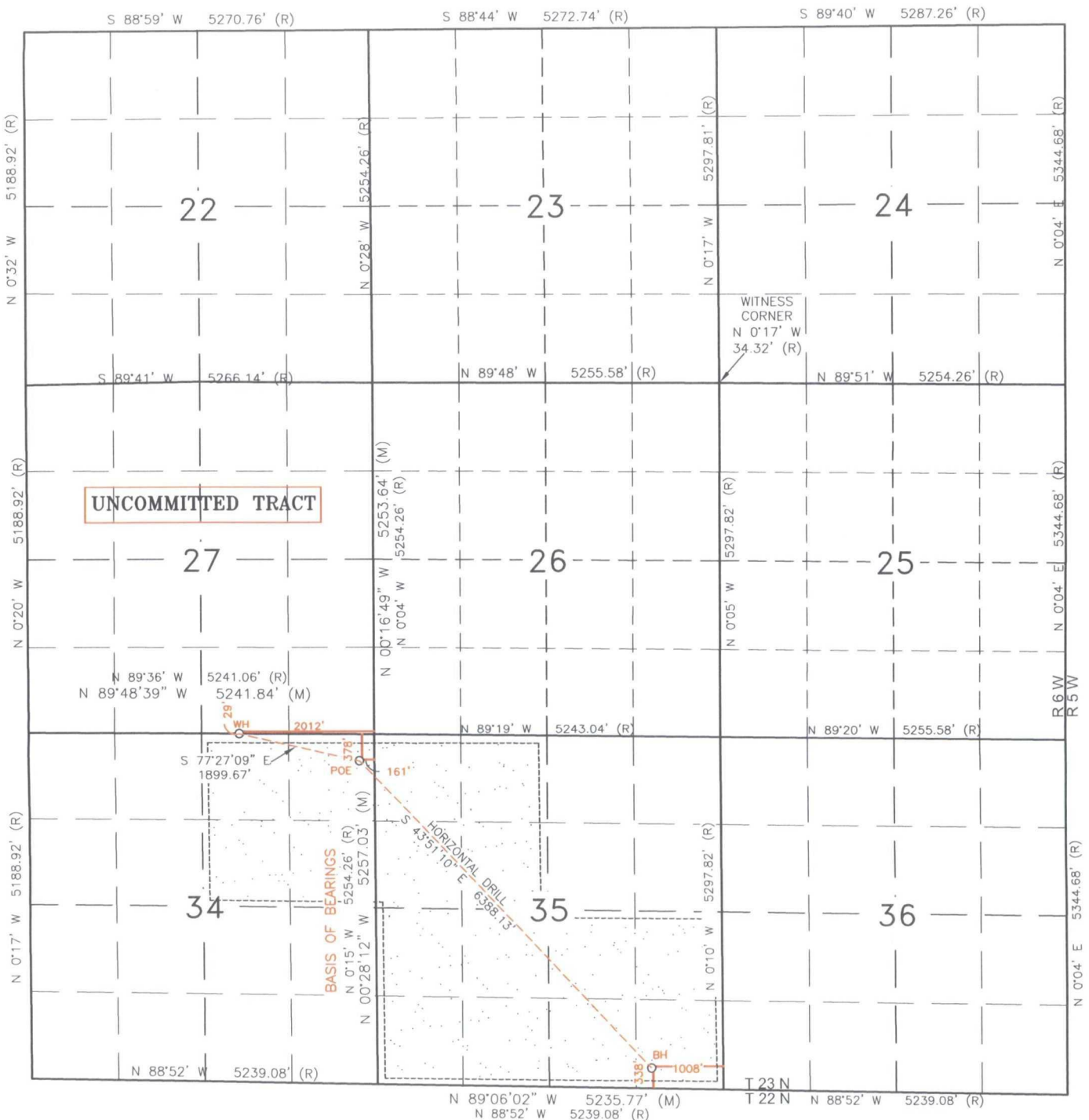
OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT

☒ AS DRILLED

ENCANA OIL & GAS (USA) INC.
GALLO CANYON UNIT 027-2306 #02H

**WELL FLAG**

LAT. 36.189136° N (NAD83)
LONG. 107.453481° W (NAD83)
LAT. 36.189122° N (NAD27)
LONG. 107.452877° W (NAD27)

POINT OF ENTRY

LAT. 36.187981° N (NAD83)
LONG. 107.447202° W (NAD83)
LAT. 36.187967° N (NAD27)
LONG. 107.446598° W (NAD27)

BOTTOM HOLE

LAT. 36.175277° N (NAD83)
LONG. 107.432269° W (NAD83)
LAT. 36.175263° N (NAD27)
LONG. 107.431665° W (NAD27)

CONFIDENTIAL

DEVIATION SURVEYS
Gallo Canyon Unit O27-2306 02H
30-043-21208

MD (Feet)	Inclination (Degree)
391'	0.20
790'	1.40
1106'	1.20
1423'	1.20
1739'	1.00
2055'	0.90
2371'	6.00

OIL CONS. DIV DIST. 3

JUN 04 2015

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, Regulatory Analyst

6/2/15
Date

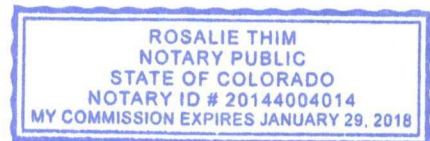
ACKNOWLEDGMENT

State of Colorado
City and County of Denver

This instrument was acknowledged before me on this 2nd day of June, 2015 by Cristi Bauer as Regulatory Analyst 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



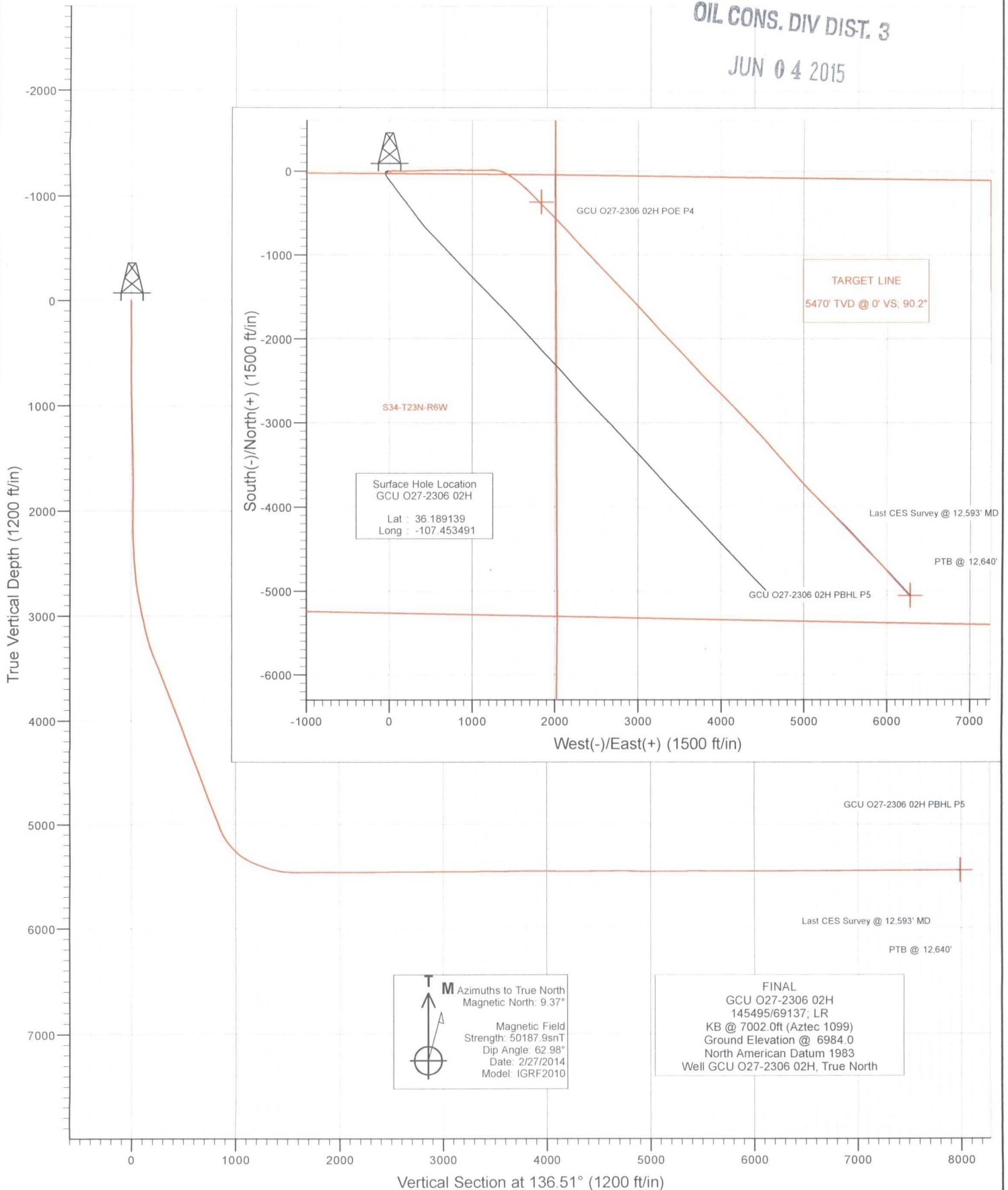


Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU O27-2306 02H
Wellbore: Hz
Design: FINAL



OIL CONS. DIV DIST. 3

JUN 04 2015



Survey Report

JUN 04 2015

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU O27-2306 02H
Project:	Sandoval County, NM	TVD Reference:	KB @ 7002.0ft (Aztec 1099)
Site:	S27-T23N-R6W	MD Reference:	KB @ 7002.0ft (Aztec 1099)
Well:	GCU O27-2306 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	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	S27-T23N-R6W				
Site Position:		Northing:	1,890,314.91 ft	Latitude:	36.189128
From:	Lat/Long	Easting:	1,285,261.84 ft	Longitude:	-107.453592
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.71 °

Well	GCU O27-2306 02H					
Well Position	+N/-S	0.0 ft	Northing:	1,890,318.52 ft	Latitude:	36.189139
	+E/-W	0.0 ft	Easting:	1,285,291.69 ft	Longitude:	-107.453491
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,984.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/27/2014	9.37	62.98	50,188

Design	FINAL			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	136.51

Survey Program	Date	12/26/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
142.0	12,640.0	Survey #1 (Hz)	Geolink 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	
142.0	0.60	114.10	142.0	-0.3	0.7	0.7	0.42	0.42	
204.0	0.40	95.40	204.0	-0.5	1.2	1.2	0.41	-0.32	
328.0	0.10	173.80	328.0	-0.6	1.6	1.6	0.32	-0.24	
391.0	0.20	292.40	391.0	-0.6	1.5	1.5	0.42	0.16	
474.0	0.30	295.80	474.0	-0.5	1.2	1.2	0.12	0.12	
600.0	0.60	263.30	600.0	-0.4	0.3	0.5	0.30	0.24	
664.0	0.60	250.10	664.0	-0.6	-0.4	0.1	0.22	0.00	
727.0	0.70	146.60	727.0	-1.0	-0.5	0.4	1.62	0.16	
790.0	1.40	117.20	790.0	-1.7	0.4	1.5	1.37	1.11	
853.0	1.10	124.20	853.0	-2.4	1.6	2.8	0.53	-0.48	
917.0	1.30	123.70	916.9	-3.1	2.7	4.1	0.31	0.31	
980.0	1.10	110.30	979.9	-3.7	3.9	5.3	0.54	-0.32	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU O27-2306 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU O27-2306 02H
TVD Reference: KB @ 7002.0ft (Aztec 1099)
MD Reference: KB @ 7002.0ft (Aztec 1099)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
1,043.0	1.30	114.80	1,042.9	-4.2	5.1	6.6	0.35	0.32	
1,106.0	1.20	94.80	1,105.9	-4.6	6.4	7.7	0.71	-0.16	
1,170.0	1.10	103.30	1,169.9	-4.8	7.7	8.7	0.31	-0.16	
1,233.0	1.30	103.10	1,232.9	-5.1	8.9	9.8	0.32	0.32	
1,296.0	1.10	97.50	1,295.9	-5.3	10.2	10.9	0.37	-0.32	
1,359.0	1.00	110.00	1,358.9	-5.6	11.3	11.9	0.40	-0.16	
1,423.0	1.20	115.80	1,422.8	-6.1	12.5	13.0	0.36	0.31	
1,486.0	1.30	106.30	1,485.8	-6.5	13.8	14.2	0.36	0.16	
1,549.0	1.20	116.80	1,548.8	-7.0	15.0	15.5	0.40	-0.16	
1,613.0	1.10	121.10	1,612.8	-7.7	16.2	16.7	0.21	-0.16	
1,676.0	1.10	106.20	1,675.8	-8.1	17.3	17.8	0.45	0.00	
1,739.0	1.00	114.30	1,738.8	-8.5	18.3	18.8	0.28	-0.16	
1,802.0	0.30	247.10	1,801.8	-8.8	18.7	19.3	1.94	-1.11	
1,866.0	0.80	279.40	1,865.8	-8.8	18.1	18.9	0.89	0.78	
1,929.0	0.80	277.70	1,928.8	-8.7	17.2	18.2	0.04	0.00	
1,992.0	1.10	280.70	1,991.8	-8.5	16.2	17.3	0.48	0.48	
2,055.0	0.90	267.50	2,054.7	-8.4	15.1	16.5	0.48	-0.32	
2,118.0	0.70	47.30	2,117.7	-8.2	14.9	16.2	2.39	-0.32	
2,182.0	2.50	70.60	2,181.7	-7.5	16.5	16.8	2.93	2.81	
2,245.0	4.50	66.40	2,244.6	-6.0	20.1	18.2	3.20	3.17	
2,308.0	5.70	71.10	2,307.3	-4.0	25.3	20.3	2.02	1.90	
2,371.0	6.00	72.90	2,370.0	-2.0	31.4	23.1	0.56	0.48	
2,434.0	6.10	65.80	2,432.7	0.3	37.6	25.6	1.20	0.16	
2,498.0	7.30	86.70	2,496.2	1.9	44.7	29.4	4.21	1.87	
2,561.0	8.30	90.60	2,558.7	2.1	53.3	35.1	1.80	1.59	
2,624.0	10.20	91.50	2,620.8	1.9	63.4	42.2	3.02	3.02	
2,687.0	11.70	93.30	2,682.7	1.4	75.4	50.8	2.44	2.38	
2,750.0	13.10	94.20	2,744.2	0.5	88.9	60.8	2.24	2.22	
2,814.0	13.10	91.00	2,806.5	-0.1	103.4	71.2	1.13	0.00	
2,876.0	13.40	98.20	2,866.9	-1.3	117.5	81.8	2.70	0.48	
2,939.0	14.60	96.00	2,928.0	-3.2	132.6	93.6	2.08	1.90	
3,002.0	17.10	95.70	2,988.6	-4.9	149.7	106.6	3.97	3.97	
3,065.0	18.90	88.10	3,048.6	-5.5	169.1	120.4	4.69	2.86	
3,129.0	20.00	83.50	3,108.9	-3.9	190.4	133.9	2.95	1.72	
3,192.0	21.60	84.90	3,167.8	-1.7	212.6	147.5	2.66	2.54	
3,255.0	23.20	87.00	3,226.0	0.0	236.6	162.8	2.84	2.54	
3,318.0	25.00	91.70	3,283.5	0.3	262.3	180.3	4.17	2.86	
3,381.0	27.00	91.40	3,340.2	-0.5	289.9	199.8	3.18	3.17	
3,445.0	30.50	87.30	3,396.3	-0.1	320.7	220.7	6.27	5.47	
3,508.0	32.80	88.00	3,449.9	1.3	353.7	242.5	3.70	3.65	
3,571.0	32.20	89.90	3,503.0	1.9	387.5	265.3	1.88	-0.95	
3,634.0	31.40	87.60	3,556.6	2.6	420.7	287.6	2.30	-1.27	
3,697.0	30.70	90.10	3,610.6	3.3	453.2	309.5	2.33	-1.11	
3,760.0	30.60	88.10	3,664.8	3.8	485.3	331.2	1.63	-0.16	
3,823.0	30.50	88.30	3,719.0	4.8	517.3	352.5	0.23	-0.16	
3,886.0	31.00	91.10	3,773.2	5.0	549.5	374.6	2.41	0.79	
3,950.0	30.90	87.80	3,828.1	5.3	582.4	397.0	2.66	-0.16	
4,013.0	30.70	87.20	3,882.2	6.7	614.6	418.2	0.58	-0.32	
4,076.0	30.20	90.80	3,936.5	7.3	646.5	439.7	3.00	-0.79	
4,139.0	28.80	89.30	3,991.3	7.2	677.6	461.1	2.51	-2.22	
4,203.0	28.40	89.70	4,047.5	7.5	708.2	482.0	0.69	-0.62	
4,266.0	28.20	90.30	4,103.0	7.5	738.1	502.5	0.55	-0.32	
4,329.0	27.70	88.60	4,158.6	7.8	767.6	522.6	1.49	-0.79	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU O27-2306 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU O27-2306 02H
TVD Reference: KB @ 7002.0ft (Aztec 1099)
MD Reference: KB @ 7002.0ft (Aztec 1099)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
4,392.0	27.50	88.30	4,214.5	8.6	796.8	542.2	0.39	-0.32	
4,455.0	28.50	89.30	4,270.1	9.2	826.3	562.1	1.75	1.59	
4,518.0	29.70	90.70	4,325.1	9.2	857.0	583.1	2.19	1.90	
4,581.0	29.10	92.80	4,380.0	8.2	887.9	605.1	1.89	-0.95	
4,645.0	27.60	91.50	4,436.3	7.1	918.2	626.8	2.53	-2.34	
4,708.0	27.10	90.00	4,492.3	6.7	947.2	647.0	1.35	-0.79	
4,771.0	28.00	88.60	4,548.2	7.1	976.3	666.8	1.76	1.43	
4,834.0	28.90	92.60	4,603.6	6.7	1,006.3	687.7	3.34	1.43	
4,897.0	28.80	90.50	4,658.7	5.9	1,036.7	709.2	1.62	-0.16	
4,961.0	27.90	92.90	4,715.1	5.0	1,067.1	730.8	2.27	-1.41	
5,024.0	27.40	91.20	4,770.9	4.0	1,096.3	751.6	1.48	-0.79	
5,087.0	29.50	87.50	4,826.3	4.3	1,126.3	772.0	4.35	3.33	
5,150.0	31.80	88.70	4,880.5	5.4	1,158.4	793.3	3.78	3.65	
5,213.0	31.80	85.60	4,934.0	7.0	1,191.5	814.9	2.59	0.00	
5,277.0	29.90	84.50	4,988.9	9.9	1,224.2	835.4	3.10	-2.97	
5,340.0	29.20	89.00	5,043.8	11.6	1,255.2	855.4	3.69	-1.11	
5,371.0	31.00	97.10	5,070.6	10.8	1,270.7	866.7	14.32	5.81	
5,403.0	33.10	98.40	5,097.7	8.5	1,287.5	880.0	6.91	6.56	
5,435.0	35.70	103.30	5,124.1	5.1	1,305.3	894.7	11.86	8.12	
5,466.0	37.50	104.50	5,149.0	0.6	1,323.2	910.2	6.25	5.81	
5,498.0	40.20	110.00	5,173.9	-5.4	1,342.4	927.7	13.68	8.44	
5,529.0	41.20	111.10	5,197.4	-12.5	1,361.3	945.9	3.97	3.23	
5,561.0	43.80	113.90	5,221.0	-20.7	1,381.2	965.7	10.05	8.12	
5,593.0	45.50	114.10	5,243.8	-29.9	1,401.8	986.4	5.33	5.31	
5,624.0	48.40	117.60	5,264.9	-39.8	1,422.2	1,007.6	12.47	9.35	
5,656.0	50.60	120.30	5,285.7	-51.6	1,443.4	1,030.8	9.40	6.87	
5,687.0	54.00	122.30	5,304.7	-64.3	1,464.4	1,054.5	12.10	10.97	
5,719.0	56.80	124.90	5,322.9	-78.9	1,486.3	1,080.2	11.01	8.75	
5,751.0	61.10	128.20	5,339.4	-95.2	1,508.3	1,107.1	16.08	13.44	
5,782.0	64.10	126.90	5,353.6	-112.0	1,530.1	1,134.3	10.37	9.68	
5,814.0	65.70	128.70	5,367.2	-129.8	1,553.0	1,163.0	7.14	5.00	
5,855.0	66.80	128.50	5,383.7	-153.2	1,582.4	1,200.1	2.72	2.68	
5,886.0	68.90	130.40	5,395.4	-171.4	1,604.5	1,228.6	8.84	6.77	
5,918.0	71.40	131.80	5,406.3	-191.2	1,627.2	1,258.6	8.83	7.81	
5,950.0	72.20	131.70	5,416.3	-211.4	1,649.9	1,288.9	2.52	2.50	
5,981.0	73.00	132.50	5,425.5	-231.3	1,671.8	1,318.4	3.57	2.58	
6,013.0	75.60	133.60	5,434.2	-252.3	1,694.3	1,349.1	8.77	8.12	
6,044.0	78.20	135.10	5,441.2	-273.4	1,715.9	1,379.3	9.62	8.39	
6,076.0	80.20	135.80	5,447.2	-295.8	1,738.0	1,410.7	6.61	6.25	
6,108.0	80.30	135.50	5,452.6	-318.4	1,760.0	1,442.3	0.98	0.31	
6,139.0	82.70	135.40	5,457.2	-340.2	1,781.5	1,472.9	7.75	7.74	
6,171.0	85.40	134.70	5,460.5	-362.7	1,804.0	1,504.7	8.71	8.44	
6,202.0	86.90	134.80	5,462.6	-384.5	1,826.0	1,535.6	4.85	4.84	
6,266.0	90.80	134.90	5,463.9	-429.6	1,871.3	1,599.6	6.10	6.09	
6,329.0	91.30	134.00	5,462.7	-473.7	1,916.3	1,662.5	1.63	0.79	
6,392.0	90.50	133.90	5,461.8	-517.4	1,961.6	1,725.5	1.28	-1.27	
6,455.0	89.80	135.70	5,461.6	-561.8	2,006.3	1,788.4	3.07	-1.11	
6,519.0	90.10	135.80	5,461.6	-607.7	2,051.0	1,852.4	0.49	0.47	
6,582.0	90.80	136.40	5,461.2	-653.1	2,094.7	1,915.4	1.46	1.11	
6,645.0	89.10	137.10	5,461.2	-699.0	2,137.9	1,978.4	2.92	-2.70	
6,708.0	89.30	137.20	5,462.1	-745.1	2,180.7	2,041.4	0.35	0.32	
6,772.0	90.00	137.60	5,462.5	-792.2	2,224.0	2,105.4	1.26	1.09	
6,835.0	90.70	137.90	5,462.1	-838.9	2,266.4	2,168.4	1.21	1.11	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU O27-2306 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU O27-2306 02H
TVD Reference: KB @ 7002.0ft (Aztec 1099)
MD Reference: KB @ 7002.0ft (Aztec 1099)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
6,898.0	90.00	136.40	5,461.7	-885.1	2,309.2	2,231.4	2.63	-1.11	
6,961.0	90.40	137.10	5,461.5	-931.0	2,352.4	2,294.4	1.28	0.63	
7,024.0	91.00	137.30	5,460.7	-977.2	2,395.2	2,357.4	1.00	0.95	
7,087.0	90.10	136.10	5,460.1	-1,023.0	2,438.4	2,420.4	2.38	-1.43	
7,151.0	90.40	135.90	5,459.8	-1,069.1	2,482.8	2,484.4	0.56	0.47	
7,214.0	90.40	136.10	5,459.4	-1,114.4	2,526.6	2,547.4	0.32	0.00	
7,277.0	90.60	136.30	5,458.8	-1,159.8	2,570.2	2,610.3	0.45	0.32	
7,340.0	90.80	135.90	5,458.1	-1,205.2	2,613.9	2,673.3	0.71	0.32	
7,402.0	89.80	135.60	5,457.7	-1,249.6	2,657.2	2,735.3	1.68	-1.61	
7,462.0	89.60	135.90	5,458.1	-1,292.6	2,699.0	2,795.3	0.60	-0.33	
7,524.0	89.90	136.00	5,458.3	-1,337.2	2,742.1	2,857.3	0.51	0.48	
7,585.0	90.10	135.90	5,458.3	-1,381.0	2,784.5	2,918.3	0.37	0.33	
7,646.0	90.40	135.90	5,458.1	-1,424.8	2,827.0	2,979.3	0.49	0.49	
7,707.0	91.00	135.70	5,457.3	-1,468.6	2,869.5	3,040.3	1.04	0.98	
7,767.0	91.20	135.80	5,456.2	-1,511.5	2,911.4	3,100.3	0.37	0.33	
7,829.0	89.80	136.00	5,455.6	-1,556.1	2,954.5	3,162.3	2.28	-2.26	
7,890.0	90.30	136.60	5,455.6	-1,600.2	2,996.7	3,223.3	1.28	0.82	
7,951.0	91.00	137.00	5,454.9	-1,644.6	3,038.4	3,284.3	1.32	1.15	
8,012.0	91.70	136.60	5,453.4	-1,689.1	3,080.2	3,345.3	1.32	1.15	
8,074.0	90.30	137.20	5,452.4	-1,734.3	3,122.5	3,407.2	2.46	-2.26	
8,135.0	89.10	137.60	5,452.7	-1,779.2	3,163.8	3,468.2	2.07	-1.97	
8,197.0	89.60	137.70	5,453.4	-1,825.0	3,205.6	3,530.2	0.82	0.81	
8,258.0	90.40	137.50	5,453.4	-1,870.1	3,246.7	3,591.2	1.35	1.31	
8,320.0	91.30	137.40	5,452.5	-1,915.8	3,288.6	3,653.2	1.46	1.45	
8,381.0	91.30	136.30	5,451.1	-1,960.3	3,330.3	3,714.2	1.80	0.00	
8,442.0	90.30	134.70	5,450.2	-2,003.8	3,373.1	3,775.2	3.09	-1.64	
8,503.0	90.70	134.70	5,449.7	-2,046.7	3,416.4	3,836.1	0.66	0.66	
8,564.0	90.20	135.60	5,449.2	-2,089.9	3,459.5	3,897.1	1.69	-0.82	
8,626.0	88.50	136.20	5,449.9	-2,134.4	3,502.6	3,959.1	2.91	-2.74	
8,687.0	88.90	135.80	5,451.3	-2,178.3	3,545.0	4,020.1	0.93	0.66	
8,747.0	90.10	136.20	5,451.8	-2,221.5	3,586.6	4,080.1	2.11	2.00	
8,808.0	90.90	136.50	5,451.3	-2,265.6	3,628.7	4,141.1	1.40	1.31	
8,869.0	90.60	137.80	5,450.5	-2,310.3	3,670.2	4,202.1	2.19	-0.49	
8,929.0	89.50	136.90	5,450.4	-2,354.4	3,710.9	4,262.1	2.37	-1.83	
8,991.0	90.00	136.40	5,450.7	-2,399.5	3,753.4	4,324.0	1.14	0.81	
9,052.0	90.90	136.20	5,450.2	-2,443.6	3,795.6	4,385.0	1.51	1.48	
9,112.0	90.70	135.70	5,449.4	-2,486.7	3,837.3	4,445.0	0.90	-0.33	
9,174.0	89.40	134.90	5,449.3	-2,530.8	3,880.9	4,507.0	2.46	-2.10	
9,237.0	89.70	134.00	5,449.8	-2,574.9	3,925.9	4,570.0	1.51	0.48	
9,300.0	90.90	134.30	5,449.5	-2,618.8	3,971.1	4,632.9	1.96	1.90	
9,363.0	90.80	134.60	5,448.6	-2,662.9	4,016.0	4,695.9	0.50	-0.16	
9,426.0	89.30	135.40	5,448.5	-2,707.5	4,060.6	4,758.9	2.70	-2.38	
9,489.0	87.80	135.70	5,450.1	-2,752.4	4,104.7	4,821.8	2.43	-2.38	
9,553.0	88.70	135.60	5,452.1	-2,798.2	4,149.4	4,885.8	1.41	1.41	
9,616.0	89.70	135.70	5,453.0	-2,843.2	4,193.4	4,948.8	1.60	1.59	
9,679.0	90.80	135.70	5,452.7	-2,888.3	4,237.4	5,011.8	1.75	1.75	
9,742.0	90.00	136.10	5,452.2	-2,933.5	4,281.3	5,074.8	1.42	-1.27	
9,805.0	90.60	136.60	5,451.9	-2,979.1	4,324.8	5,137.8	1.24	0.95	
9,868.0	90.00	136.50	5,451.6	-3,024.9	4,368.1	5,200.8	0.97	-0.95	
9,932.0	90.40	136.50	5,451.4	-3,071.3	4,412.1	5,264.8	0.62	0.62	
9,995.0	91.40	136.00	5,450.4	-3,116.8	4,455.7	5,327.7	1.77	1.59	
10,058.0	91.60	137.20	5,448.7	-3,162.5	4,499.0	5,390.7	1.93	0.32	
10,121.0	89.40	139.00	5,448.2	-3,209.4	4,541.0	5,453.7	4.51	-3.49	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU O27-2306 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU O27-2306 02H
TVD Reference: KB @ 7002.0ft (Aztec 1099)
MD Reference: KB @ 7002.0ft (Aztec 1099)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
10,185.0	89.00	138.90	5,449.1	-3,257.7	4,583.1	5,517.6	0.64	-0.62	
10,248.0	89.90	138.50	5,449.7	-3,305.0	4,624.6	5,580.6	1.56	1.43	
10,311.0	90.60	137.90	5,449.4	-3,352.0	4,666.6	5,643.5	1.46	1.11	
10,374.0	89.00	138.90	5,449.6	-3,399.1	4,708.5	5,706.5	2.99	-2.54	
10,438.0	89.60	138.30	5,450.4	-3,447.1	4,750.8	5,770.5	1.33	0.94	
10,501.0	90.40	138.00	5,450.4	-3,494.0	4,792.8	5,833.4	1.36	1.27	
10,564.0	89.40	137.90	5,450.5	-3,540.8	4,835.0	5,896.4	1.60	-1.59	
10,627.0	89.30	138.40	5,451.2	-3,587.7	4,877.0	5,959.4	0.81	-0.16	
10,690.0	90.00	137.30	5,451.6	-3,634.4	4,919.3	6,022.4	2.07	1.11	
10,754.0	91.10	137.80	5,451.0	-3,681.6	4,962.5	6,086.3	1.89	1.72	
10,817.0	91.30	137.00	5,449.7	-3,728.0	5,005.1	6,149.3	1.31	0.32	
10,880.0	89.60	135.70	5,449.2	-3,773.6	5,048.6	6,212.3	3.40	-2.70	
10,943.0	90.20	135.40	5,449.3	-3,818.6	5,092.7	6,275.3	1.06	0.95	
11,007.0	91.30	135.70	5,448.4	-3,864.2	5,137.5	6,339.3	1.78	1.72	
11,070.0	89.70	135.70	5,447.9	-3,909.3	5,181.5	6,402.3	2.54	-2.54	
11,133.0	89.60	135.60	5,448.3	-3,954.4	5,225.6	6,465.3	0.22	-0.16	
11,196.0	90.60	135.40	5,448.2	-3,999.3	5,269.7	6,528.3	1.62	1.59	
11,259.0	89.30	134.90	5,448.2	-4,044.0	5,314.2	6,591.2	2.21	-2.06	
11,323.0	91.10	135.80	5,448.0	-4,089.5	5,359.1	6,655.2	3.14	2.81	
11,386.0	90.10	137.40	5,447.3	-4,135.3	5,402.4	6,718.2	2.99	-1.59	
11,449.0	90.70	137.30	5,446.9	-4,181.6	5,445.1	6,781.2	0.97	0.95	
11,512.0	89.80	137.30	5,446.6	-4,227.9	5,487.8	6,844.2	1.43	-1.43	
11,576.0	90.50	137.20	5,446.5	-4,274.9	5,531.3	6,908.2	1.10	1.09	
11,639.0	89.60	136.00	5,446.4	-4,320.7	5,574.6	6,971.2	2.38	-1.43	
11,702.0	89.50	135.90	5,446.9	-4,366.0	5,618.4	7,034.2	0.22	-0.16	
11,765.0	90.40	136.60	5,447.0	-4,411.5	5,661.9	7,097.2	1.81	1.43	
11,828.0	91.30	136.00	5,446.0	-4,457.0	5,705.4	7,160.2	1.72	1.43	
11,892.0	90.00	136.20	5,445.3	-4,503.1	5,749.8	7,224.2	2.06	-2.03	
11,955.0	90.70	136.00	5,444.9	-4,548.5	5,793.5	7,287.2	1.16	1.11	
12,018.0	90.10	134.70	5,444.5	-4,593.3	5,837.8	7,350.2	2.27	-0.95	
12,081.0	91.30	135.00	5,443.7	-4,637.8	5,882.4	7,413.1	1.96	1.90	
12,145.0	90.40	136.50	5,442.7	-4,683.6	5,927.1	7,477.1	2.73	-1.41	
12,208.0	89.70	137.00	5,442.7	-4,729.5	5,970.3	7,540.1	1.37	-1.11	
12,271.0	90.60	136.60	5,442.5	-4,775.4	6,013.4	7,603.1	1.56	1.43	
12,334.0	89.90	137.40	5,442.3	-4,821.5	6,056.3	7,666.1	1.69	-1.11	
12,398.0	90.10	138.60	5,442.3	-4,869.0	6,099.2	7,730.1	1.90	0.31	
12,461.0	90.90	137.80	5,441.7	-4,916.0	6,141.2	7,793.0	1.80	1.27	
12,524.0	90.30	136.60	5,441.0	-4,962.2	6,184.0	7,856.0	2.13	-0.95	
12,593.0	90.40	136.10	5,440.6	-5,012.1	6,231.6	7,925.0	0.74	0.14	Last CES Survey @ 12,593' MD
12,640.0	90.40	136.10	5,440.3	-5,046.0	6,264.2	7,972.0	0.00	0.00	PTB @ 12,640'

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU O27-2306 02H
Project:	Sandoval County, NM	TVD Reference:	KB @ 7002.0ft (Aztec 1099)
Site:	S27-T23N-R6W	MD Reference:	KB @ 7002.0ft (Aztec 1099)
Well:	GCU O27-2306 02H	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
GCU O27-2306 02H PB	0.00	0.00	5,430.1	-5,055.4	6,282.4	1,885,185.57	1,291,510.89	36.175251	-107.432207
- actual wellpath misses target center by 22.9ft at 12640.0ft MD (5440.3 TVD, -5046.0 N, 6264.2 E)									
- Point									
GCU O27-2306 02H PO	0.00	0.00	5,463.9	-373.1	1,840.4	1,889,922.63	1,287,127.30	36.188114	-107.447255
- actual wellpath misses target center by 18.3ft at 6204.2ft MD (5462.7 TVD, -386.0 N, 1827.5 E)									
- Point									
GCU O27-2306 02H PB	0.00	0.00	5,438.1	-5,055.4	6,282.4	1,885,185.57	1,291,510.89	36.175251	-107.432207
- actual wellpath misses target center by 20.6ft at 12640.0ft MD (5440.3 TVD, -5046.0 N, 6264.2 E)									
- Point									
GCU O27-2306 02H PO	0.00	0.00	5,471.9	-373.1	1,840.4	1,889,922.63	1,287,127.30	36.188114	-107.447255
- actual wellpath misses target center by 20.4ft at 6204.4ft MD (5462.7 TVD, -386.2 N, 1827.6 E)									
- Point									
GCU O27-2306 02H PB	0.00	0.00	5,442.1	-5,055.4	6,282.4	1,885,185.57	1,291,510.89	36.175251	-107.432207
- actual wellpath misses target center by 20.6ft at 12640.0ft MD (5440.3 TVD, -5046.0 N, 6264.2 E)									
- Point									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S	+E/-W	Comment
(ft)	(ft)	(ft)	(ft)	
12,593.0	5,440.6	-5,012.1	6,231.6	Last CES Survey @ 12,593' MD
12,640.0	5,440.3	-5,046.0	6,264.2	PTB @ 12,640'

Checked By: _____ Approved By: _____ Date: _____

EnCana Oil & Gas (USA) Inc

Sandoval County, NM

S27-T23N-R6W

GCU O27-2306 02H

Hz

Design: FINAL

Survey Report - Geographic

26 December, 2014

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU O27-2306 02H
Project:	Sandoval County, NM	TVD Reference:	KB @ 7002.0ft (Aztec 1099)
Site:	S27-T23N-R6W	MD Reference:	KB @ 7002.0ft (Aztec 1099)
Well:	GCU O27-2306 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	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	S27-T23N-R6W				
Site Position:		Northing:	1,890,314.91 ft	Latitude:	36.189128
From:	Lat/Long	Easting:	1,285,261.84 ft	Longitude:	-107.453592
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.71 °

Well	GCU O27-2306 02H					
Well Position	+N/-S	0.0 ft	Northing:	1,890,318.53 ft	Latitude:	36.189139
	+E/-W	0.0 ft	Easting:	1,285,291.69 ft	Longitude:	-107.453491
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,984.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/27/2014	9.37	62.98	50,188

Design	FINAL				
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	136.51	

Survey Program	Date	12/26/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
142.0	12,640.0	Survey #1 (Hz)	Geolink MWD	Geolink MWD	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,890,318.53	1,285,291.69	36.189139	-107.453491
142.0	0.60	114.10	142.0	-0.3	0.7	1,890,318.21	1,285,292.37	36.189138	-107.453489
204.0	0.40	95.40	204.0	-0.5	1.2	1,890,318.06	1,285,292.87	36.189138	-107.453487
328.0	0.10	173.80	328.0	-0.6	1.6	1,890,317.90	1,285,293.32	36.189137	-107.453486
391.0	0.20	292.40	391.0	-0.6	1.5	1,890,317.89	1,285,293.22	36.189137	-107.453486
474.0	0.30	295.80	474.0	-0.5	1.2	1,890,318.04	1,285,292.89	36.189138	-107.453487
600.0	0.60	263.30	600.0	-0.4	0.3	1,890,318.12	1,285,291.94	36.189138	-107.453490
664.0	0.60	250.10	664.0	-0.6	-0.4	1,890,317.98	1,285,291.29	36.189138	-107.453493
727.0	0.70	146.60	727.0	-1.0	-0.5	1,890,317.54	1,285,291.19	36.189136	-107.453493
790.0	1.40	117.20	790.0	-1.7	0.4	1,890,316.86	1,285,292.08	36.189134	-107.453490
853.0	1.10	124.20	853.0	-2.4	1.6	1,890,316.15	1,285,293.25	36.189133	-107.453486
917.0	1.30	123.70	916.9	-3.1	2.7	1,890,315.39	1,285,294.35	36.189131	-107.453482

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU O27-2306 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU O27-2306 02H
TVD Reference: KB @ 7002.0ft (Aztec 1099)
MD Reference: KB @ 7002.0ft (Aztec 1099)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
980.0	1.10	110.30	979.9	-3.7	3.9	1,890,314.77	1,285,295.51	36.189129	-107.453478
1,043.0	1.30	114.80	1,042.9	-4.2	5.1	1,890,314.25	1,285,296.72	36.189127	-107.453474
1,106.0	1.20	94.80	1,105.9	-4.6	6.4	1,890,313.88	1,285,298.02	36.189126	-107.453470
1,170.0	1.10	103.30	1,169.9	-4.8	7.7	1,890,313.66	1,285,299.28	36.189126	-107.453465
1,233.0	1.30	103.10	1,232.9	-5.1	8.9	1,890,313.35	1,285,300.56	36.189125	-107.453461
1,296.0	1.10	97.50	1,295.9	-5.3	10.2	1,890,313.09	1,285,301.86	36.189124	-107.453457
1,359.0	1.00	110.00	1,358.9	-5.6	11.3	1,890,312.81	1,285,302.97	36.189124	-107.453453
1,423.0	1.20	115.80	1,422.8	-6.1	12.5	1,890,312.31	1,285,304.09	36.189122	-107.453449
1,486.0	1.30	106.30	1,485.8	-6.5	13.8	1,890,311.81	1,285,305.36	36.189121	-107.453445
1,549.0	1.20	116.80	1,548.8	-7.0	15.0	1,890,311.29	1,285,306.63	36.189120	-107.453440
1,613.0	1.10	121.10	1,612.8	-7.7	16.2	1,890,310.66	1,285,307.75	36.189118	-107.453437
1,676.0	1.10	106.20	1,675.8	-8.1	17.3	1,890,310.17	1,285,308.84	36.189117	-107.453433
1,739.0	1.00	114.30	1,738.8	-8.5	18.3	1,890,309.76	1,285,309.92	36.189116	-107.453429
1,802.0	0.30	247.10	1,801.8	-8.8	18.7	1,890,309.46	1,285,310.26	36.189115	-107.453428
1,866.0	0.80	279.40	1,865.8	-8.8	18.1	1,890,309.48	1,285,309.67	36.189115	-107.453430
1,929.0	0.80	277.70	1,928.8	-8.7	17.2	1,890,309.62	1,285,308.80	36.189115	-107.453433
1,992.0	1.10	280.70	1,991.8	-8.5	16.2	1,890,309.80	1,285,307.77	36.189116	-107.453436
2,055.0	0.90	267.50	2,054.7	-8.4	15.1	1,890,309.91	1,285,306.69	36.189116	-107.453440
2,118.0	0.70	47.30	2,117.7	-8.2	14.9	1,890,310.15	1,285,306.48	36.189117	-107.453441
2,182.0	2.50	70.60	2,181.7	-7.5	16.5	1,890,310.86	1,285,308.09	36.189119	-107.453435
2,245.0	4.50	66.40	2,244.6	-6.0	20.1	1,890,312.26	1,285,311.67	36.189123	-107.453423
2,308.0	5.70	71.10	2,307.3	-4.0	25.3	1,890,314.20	1,285,316.92	36.189128	-107.453406
2,371.0	6.00	72.90	2,370.0	-2.0	31.4	1,890,316.10	1,285,323.05	36.189133	-107.453385
2,434.0	6.10	65.80	2,432.7	0.3	37.6	1,890,318.37	1,285,329.28	36.189140	-107.453364
2,498.0	7.30	86.70	2,496.2	1.9	44.7	1,890,319.91	1,285,336.46	36.189144	-107.453340
2,561.0	8.30	90.60	2,558.7	2.1	53.3	1,890,319.98	1,285,345.00	36.189145	-107.453311
2,624.0	10.20	91.50	2,620.8	1.9	63.4	1,890,319.66	1,285,355.13	36.189144	-107.453276
2,687.0	11.70	93.30	2,682.7	1.4	75.4	1,890,319.00	1,285,367.07	36.189143	-107.453236
2,750.0	13.10	94.20	2,744.2	0.5	88.9	1,890,317.94	1,285,380.56	36.189140	-107.453190
2,814.0	13.10	91.00	2,806.5	-0.1	103.4	1,890,317.11	1,285,395.03	36.189139	-107.453141
2,876.0	13.40	98.20	2,866.9	-1.3	117.5	1,890,315.78	1,285,409.16	36.189136	-107.453093
2,939.0	14.60	96.00	2,928.0	-3.2	132.6	1,890,313.73	1,285,424.25	36.189130	-107.453042
3,002.0	17.10	95.70	2,988.6	-4.9	149.7	1,890,311.76	1,285,441.35	36.189126	-107.452984
3,065.0	18.90	88.10	3,048.6	-5.5	169.1	1,890,310.94	1,285,460.76	36.189124	-107.452918
3,129.0	20.00	83.50	3,108.9	-3.9	190.4	1,890,312.26	1,285,482.01	36.189128	-107.452846
3,192.0	21.60	84.90	3,167.8	-1.7	212.6	1,890,314.23	1,285,504.29	36.189134	-107.452771
3,255.0	23.20	87.00	3,226.0	0.0	236.6	1,890,315.62	1,285,528.26	36.189139	-107.452690
3,318.0	25.00	91.70	3,283.5	0.3	262.3	1,890,315.55	1,285,553.96	36.189140	-107.452603
3,381.0	27.00	91.40	3,340.2	-0.5	289.9	1,890,314.47	1,285,581.56	36.189138	-107.452509
3,445.0	30.50	87.30	3,396.3	-0.1	320.7	1,890,314.50	1,285,612.32	36.189139	-107.452405
3,508.0	32.80	88.00	3,449.9	1.3	353.7	1,890,315.43	1,285,645.36	36.189143	-107.452293
3,571.0	32.20	89.90	3,503.0	1.9	387.5	1,890,315.64	1,285,679.20	36.189144	-107.452178
3,634.0	31.40	87.60	3,556.6	2.6	420.7	1,890,315.94	1,285,712.40	36.189146	-107.452066
3,697.0	30.70	90.10	3,610.6	3.3	453.2	1,890,316.20	1,285,744.88	36.189148	-107.451956
3,760.0	30.60	88.10	3,664.8	3.8	485.3	1,890,316.31	1,285,777.00	36.189149	-107.451847
3,823.0	30.50	88.30	3,719.0	4.8	517.3	1,890,316.91	1,285,809.01	36.189152	-107.451738
3,886.0	31.00	91.10	3,773.2	5.0	549.5	1,890,316.68	1,285,841.21	36.189153	-107.451629
3,950.0	30.90	87.80	3,828.1	5.3	582.4	1,890,316.58	1,285,874.12	36.189154	-107.451518
4,013.0	30.70	87.20	3,882.2	6.7	614.6	1,890,317.59	1,285,906.36	36.189157	-107.451409
4,076.0	30.20	90.80	3,936.5	7.3	646.5	1,890,317.76	1,285,938.27	36.189159	-107.451300
4,139.0	28.80	89.30	3,991.3	7.2	677.6	1,890,317.34	1,285,969.29	36.189159	-107.451195
4,203.0	28.40	89.70	4,047.5	7.5	708.2	1,890,317.23	1,285,999.93	36.189160	-107.451092
4,266.0	28.20	90.30	4,103.0	7.5	738.1	1,890,316.86	1,286,029.79	36.189160	-107.450990
4,329.0	27.70	88.60	4,158.6	7.8	767.6	1,890,316.77	1,286,059.32	36.189160	-107.450890
4,392.0	27.50	88.30	4,214.5	8.6	796.8	1,890,317.20	1,286,088.50	36.189163	-107.450791

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU O27-2306 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU O27-2306 02H
TVD Reference: KB @ 7002.0ft (Aztec 1099)
MD Reference: KB @ 7002.0ft (Aztec 1099)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,455.0	28.50	89.30	4,270.1	9.2	826.3	1,890,317.45	1,286,118.08	36.189164	-107.450691
4,518.0	29.70	90.70	4,325.1	9.2	857.0	1,890,317.06	1,286,148.71	36.189164	-107.450587
4,581.0	29.10	92.80	4,380.0	8.2	887.9	1,890,315.74	1,286,179.60	36.189162	-107.450483
4,645.0	27.60	91.50	4,436.3	7.1	918.2	1,890,314.21	1,286,209.95	36.189158	-107.450380
4,708.0	27.10	90.00	4,492.3	6.7	947.2	1,890,313.47	1,286,238.89	36.189157	-107.450282
4,771.0	28.00	88.60	4,548.2	7.1	976.3	1,890,313.47	1,286,268.02	36.189158	-107.450183
4,834.0	28.90	92.60	4,603.6	6.7	1,006.3	1,890,312.77	1,286,298.01	36.189157	-107.450081
4,897.0	28.80	90.50	4,658.7	5.9	1,036.7	1,890,311.57	1,286,328.38	36.189155	-107.449978
4,961.0	27.90	92.90	4,715.1	5.0	1,067.1	1,890,310.30	1,286,358.74	36.189153	-107.449876
5,024.0	27.40	91.20	4,770.9	4.0	1,096.3	1,890,308.89	1,286,387.94	36.189150	-107.449777
5,087.0	29.50	87.50	4,826.3	4.3	1,126.3	1,890,308.89	1,286,417.94	36.189151	-107.449675
5,150.0	31.80	88.70	4,880.5	5.4	1,158.4	1,890,309.55	1,286,450.04	36.189154	-107.449566
5,213.0	31.80	85.60	4,934.0	7.0	1,191.5	1,890,310.78	1,286,483.21	36.189158	-107.449454
5,277.0	29.90	84.50	4,988.9	9.9	1,224.2	1,890,313.20	1,286,515.94	36.189166	-107.449343
5,340.0	29.20	89.00	5,043.8	11.6	1,255.2	1,890,314.59	1,286,546.96	36.189171	-107.449238
5,371.0	31.00	97.10	5,070.6	10.8	1,270.7	1,890,313.54	1,286,562.43	36.189169	-107.449186
5,403.0	33.10	98.40	5,097.7	8.5	1,287.5	1,890,311.04	1,286,579.23	36.189162	-107.449128
5,435.0	35.70	103.30	5,124.1	5.1	1,305.3	1,890,307.39	1,286,596.92	36.189153	-107.449068
5,466.0	37.50	104.50	5,149.0	0.6	1,323.2	1,890,302.73	1,286,614.80	36.189141	-107.449008
5,498.0	40.20	110.00	5,173.9	-5.4	1,342.4	1,890,296.52	1,286,633.87	36.189124	-107.448943
5,529.0	41.20	111.10	5,197.4	-12.5	1,361.3	1,890,289.19	1,286,652.71	36.189105	-107.448879
5,561.0	43.80	113.90	5,221.0	-20.7	1,381.2	1,890,280.66	1,286,672.57	36.189082	-107.448811
5,593.0	45.50	114.10	5,243.8	-29.9	1,401.8	1,890,271.25	1,286,693.00	36.189057	-107.448741
5,624.0	48.40	117.60	5,264.9	-39.8	1,422.2	1,890,261.11	1,286,713.24	36.189030	-107.448672
5,656.0	50.60	120.30	5,285.7	-51.6	1,443.4	1,890,249.07	1,286,734.38	36.188997	-107.448600
5,687.0	54.00	122.30	5,304.7	-64.3	1,464.4	1,890,236.06	1,286,755.17	36.188962	-107.448529
5,719.0	56.80	124.90	5,322.9	-78.9	1,486.3	1,890,221.21	1,286,776.91	36.188922	-107.448455
5,751.0	61.10	128.20	5,339.4	-95.2	1,508.3	1,890,204.60	1,286,798.71	36.188877	-107.448380
5,782.0	64.10	126.90	5,353.6	-112.0	1,530.1	1,890,187.57	1,286,820.32	36.188831	-107.448306
5,814.0	65.70	128.70	5,367.2	-129.8	1,553.0	1,890,169.52	1,286,842.99	36.188783	-107.448229
5,855.0	66.80	128.50	5,383.7	-153.2	1,582.4	1,890,145.75	1,286,872.03	36.188718	-107.448130
5,886.0	68.90	130.40	5,395.4	-171.4	1,604.5	1,890,127.23	1,286,893.97	36.188668	-107.448054
5,918.0	71.40	131.80	5,406.3	-191.2	1,627.2	1,890,107.16	1,286,916.40	36.188614	-107.447978
5,950.0	72.20	131.70	5,416.3	-211.4	1,649.9	1,890,086.64	1,286,938.82	36.188558	-107.447901
5,981.0	73.00	132.50	5,425.5	-231.3	1,671.8	1,890,066.54	1,286,960.52	36.188504	-107.447826
6,013.0	75.60	133.60	5,434.2	-252.3	1,694.3	1,890,045.23	1,286,982.77	36.188446	-107.447750
6,044.0	78.20	135.10	5,441.2	-273.4	1,715.9	1,890,023.86	1,287,004.09	36.188388	-107.447677
6,076.0	80.20	135.80	5,447.2	-295.8	1,738.0	1,890,001.19	1,287,025.86	36.188326	-107.447602
6,108.0	80.30	135.50	5,452.6	-318.4	1,760.0	1,889,978.37	1,287,047.63	36.188264	-107.447528
6,139.0	82.70	135.40	5,457.2	-340.2	1,781.5	1,889,956.25	1,287,068.86	36.188204	-107.447455
6,171.0	85.40	134.70	5,460.5	-362.7	1,804.0	1,889,933.45	1,287,091.06	36.188143	-107.447378
6,202.0	86.90	134.80	5,462.6	-384.5	1,826.0	1,889,911.41	1,287,112.76	36.188083	-107.447304
6,266.0	90.80	134.90	5,463.9	-429.6	1,871.3	1,889,865.73	1,287,157.55	36.187959	-107.447150
6,329.0	91.30	134.00	5,462.7	-473.7	1,916.3	1,889,821.07	1,287,201.96	36.187838	-107.446998
6,392.0	90.50	133.90	5,461.8	-517.4	1,961.6	1,889,776.79	1,287,246.77	36.187718	-107.446844
6,455.0	89.80	135.70	5,461.6	-561.8	2,006.3	1,889,731.85	1,287,290.92	36.187596	-107.446693
6,519.0	90.10	135.80	5,461.6	-607.7	2,051.0	1,889,685.45	1,287,335.00	36.187470	-107.446542
6,582.0	90.80	136.40	5,461.1	-653.1	2,094.7	1,889,639.52	1,287,378.12	36.187345	-107.446394
6,645.0	89.10	137.10	5,461.2	-699.0	2,137.9	1,889,593.11	1,287,420.71	36.187219	-107.446247
6,708.0	89.30	137.20	5,462.1	-745.1	2,180.7	1,889,546.40	1,287,462.97	36.187092	-107.446102
6,772.0	90.00	137.60	5,462.5	-792.2	2,224.0	1,889,498.75	1,287,505.71	36.186963	-107.445955
6,835.0	90.70	137.90	5,462.1	-838.9	2,266.4	1,889,451.60	1,287,547.48	36.186835	-107.445812
6,898.0	90.00	136.40	5,461.7	-885.1	2,309.2	1,889,404.89	1,287,589.75	36.186708	-107.445667
6,961.0	90.40	137.10	5,461.5	-931.0	2,352.4	1,889,358.47	1,287,632.34	36.186582	-107.445521
7,024.0	91.00	137.30	5,460.7	-977.2	2,395.2	1,889,311.72	1,287,674.57	36.186455	-107.445376

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU O27-2306 02H
Project:	Sandoval County, NM	TVD Reference:	KB @ 7002.0ft (Aztec 1099)
Site:	S27-T23N-R6W	MD Reference:	KB @ 7002.0ft (Aztec 1099)
Well:	GCU O27-2306 02H	North Reference:	True
Wellbore:	H2	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
7,087.0	90.10	136.10	5,460.1	-1,023.0	2,438.4	1,889,265.34	1,287,717.20	36.186329	-107.445229
7,151.0	90.40	135.90	5,459.8	-1,069.1	2,482.8	1,889,218.75	1,287,761.08	36.186202	-107.445079
7,214.0	90.40	136.10	5,459.4	-1,114.4	2,526.6	1,889,172.90	1,287,804.28	36.186078	-107.444930
7,277.0	90.60	136.30	5,458.8	-1,159.8	2,570.2	1,889,126.89	1,287,847.31	36.185953	-107.444783
7,340.0	90.80	135.90	5,458.1	-1,205.2	2,613.9	1,889,080.96	1,287,890.43	36.185828	-107.444635
7,402.0	89.80	135.60	5,457.7	-1,249.6	2,657.2	1,889,036.02	1,287,933.14	36.185706	-107.444488
7,462.0	89.60	135.90	5,458.1	-1,292.6	2,699.0	1,888,992.53	1,287,974.47	36.185588	-107.444346
7,524.0	89.90	136.00	5,458.3	-1,337.2	2,742.1	1,888,947.43	1,288,017.02	36.185466	-107.444200
7,585.0	90.10	135.90	5,458.3	-1,381.0	2,784.5	1,888,903.07	1,288,058.88	36.185345	-107.444056
7,646.0	90.40	135.90	5,458.1	-1,424.8	2,827.0	1,888,858.74	1,288,100.79	36.185225	-107.443913
7,707.0	91.00	135.70	5,457.3	-1,468.6	2,869.5	1,888,814.49	1,288,142.77	36.185105	-107.443768
7,767.0	91.20	135.80	5,456.2	-1,511.5	2,911.4	1,888,771.00	1,288,184.09	36.184987	-107.443627
7,829.0	89.80	136.00	5,455.6	-1,556.1	2,954.5	1,888,725.95	1,288,226.68	36.184865	-107.443480
7,890.0	90.30	136.60	5,455.6	-1,600.2	2,996.7	1,888,681.33	1,288,268.27	36.184743	-107.443338
7,951.0	91.00	137.00	5,454.9	-1,644.6	3,038.4	1,888,636.35	1,288,309.47	36.184621	-107.443196
8,012.0	91.70	136.60	5,453.4	-1,689.1	3,080.2	1,888,591.38	1,288,350.66	36.184499	-107.443055
8,074.0	90.30	137.20	5,452.4	-1,734.3	3,122.5	1,888,545.60	1,288,392.45	36.184375	-107.442911
8,135.0	89.10	137.60	5,452.7	-1,779.2	3,163.8	1,888,500.19	1,288,433.18	36.184251	-107.442771
8,197.0	89.60	137.70	5,453.4	-1,825.0	3,205.6	1,888,453.86	1,288,474.37	36.184126	-107.442630
8,258.0	90.40	137.50	5,453.4	-1,870.1	3,246.7	1,888,408.30	1,288,514.94	36.184002	-107.442491
8,320.0	91.30	137.40	5,452.5	-1,915.8	3,288.6	1,888,362.12	1,288,556.29	36.183876	-107.442349
8,381.0	91.30	136.30	5,451.1	-1,960.3	3,330.3	1,888,317.11	1,288,597.45	36.183754	-107.442207
8,442.0	90.30	134.70	5,450.2	-2,003.8	3,373.1	1,888,273.08	1,288,639.65	36.183635	-107.442062
8,503.0	90.70	134.70	5,449.7	-2,046.7	3,416.4	1,888,229.64	1,288,682.47	36.183517	-107.441916
8,564.0	90.20	135.60	5,449.2	-2,089.9	3,459.5	1,888,185.87	1,288,724.95	36.183398	-107.441770
8,626.0	88.50	136.20	5,449.9	-2,134.4	3,502.6	1,888,140.82	1,288,767.54	36.183276	-107.441624
8,687.0	88.90	135.80	5,451.3	-2,178.3	3,545.0	1,888,096.43	1,288,809.35	36.183155	-107.441480
8,747.0	90.10	136.20	5,451.8	-2,221.5	3,586.6	1,888,052.76	1,288,850.49	36.183037	-107.441339
8,808.0	90.90	136.50	5,451.3	-2,265.6	3,628.7	1,888,008.10	1,288,892.05	36.182915	-107.441196
8,869.0	90.60	137.80	5,450.5	-2,310.3	3,670.2	1,887,962.87	1,288,932.97	36.182793	-107.441056
8,929.0	89.50	136.90	5,450.4	-2,354.4	3,710.9	1,887,918.24	1,288,973.07	36.182671	-107.440918
8,991.0	90.00	136.40	5,450.7	-2,399.5	3,753.4	1,887,872.64	1,289,015.06	36.182547	-107.440774
9,052.0	90.90	136.20	5,450.2	-2,443.6	3,795.6	1,887,828.02	1,289,056.66	36.182426	-107.440631
9,112.0	90.70	135.70	5,449.4	-2,486.7	3,837.3	1,887,784.38	1,289,097.83	36.182308	-107.440490
9,174.0	89.40	134.90	5,449.3	-2,530.8	3,880.9	1,887,739.78	1,289,140.89	36.182187	-107.440342
9,237.0	89.70	134.00	5,449.8	-2,574.9	3,925.9	1,887,695.11	1,289,185.31	36.182066	-107.440190
9,300.0	90.90	134.30	5,449.5	-2,618.8	3,971.1	1,887,650.67	1,289,229.97	36.181945	-107.440037
9,363.0	90.80	134.60	5,448.6	-2,662.9	4,016.0	1,887,606.00	1,289,274.38	36.181824	-107.439884
9,426.0	89.30	135.40	5,448.5	-2,707.5	4,060.6	1,887,560.91	1,289,318.37	36.181701	-107.439733
9,489.0	87.80	135.70	5,450.1	-2,752.4	4,104.7	1,887,515.41	1,289,361.92	36.181578	-107.439584
9,553.0	88.70	135.60	5,452.1	-2,798.2	4,149.4	1,887,469.11	1,289,406.06	36.181452	-107.439432
9,616.0	89.70	135.70	5,453.0	-2,843.2	4,193.4	1,887,423.52	1,289,449.53	36.181329	-107.439283
9,679.0	90.80	135.70	5,452.7	-2,888.3	4,237.4	1,887,377.89	1,289,492.97	36.181205	-107.439134
9,742.0	90.00	136.10	5,452.2	-2,933.5	4,281.3	1,887,332.11	1,289,536.25	36.181080	-107.438986
9,805.0	90.60	136.60	5,451.9	-2,979.1	4,324.8	1,887,285.99	1,289,579.16	36.180955	-107.438838
9,868.0	90.00	136.50	5,451.6	-3,024.9	4,368.1	1,887,239.72	1,289,621.92	36.180830	-107.438692
9,932.0	90.40	136.50	5,451.4	-3,071.3	4,412.1	1,887,192.76	1,289,665.39	36.180702	-107.438542
9,995.0	91.40	136.00	5,450.4	-3,116.8	4,455.7	1,887,146.72	1,289,708.38	36.180577	-107.438395
10,058.0	91.60	137.20	5,448.7	-3,162.5	4,499.0	1,887,100.43	1,289,751.08	36.180451	-107.438248
10,121.0	89.40	139.00	5,448.2	-3,209.4	4,541.0	1,887,053.02	1,289,792.57	36.180323	-107.438106
10,185.0	89.00	138.90	5,449.1	-3,257.7	4,583.1	1,887,004.25	1,289,833.99	36.180190	-107.437963
10,248.0	89.90	138.50	5,449.7	-3,305.0	4,624.6	1,886,956.41	1,289,874.98	36.180060	-107.437823
10,311.0	90.60	137.90	5,449.4	-3,352.0	4,666.6	1,886,908.93	1,289,916.38	36.179931	-107.437680
10,374.0	89.00	138.90	5,449.6	-3,399.1	4,708.5	1,886,861.30	1,289,957.62	36.179801	-107.437539
10,438.0	89.60	138.30	5,450.4	-3,447.1	4,750.8	1,886,812.78	1,289,999.34	36.179670	-107.437395

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU O27-2306 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU O27-2306 02H
TVD Reference: KB @ 7002.0ft (Aztec 1099)
MD Reference: KB @ 7002.0ft (Aztec 1099)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
10,501.0	90.40	138.00	5,450.4	-3,494.0	4,792.8	1,886,765.33	1,290,040.79	36.179541	-107.437253
10,564.0	89.40	137.90	5,450.5	-3,540.8	4,835.0	1,886,718.03	1,290,082.40	36.179412	-107.437110
10,627.0	89.30	138.40	5,451.2	-3,587.7	4,877.0	1,886,670.59	1,290,123.85	36.179283	-107.436968
10,690.0	90.00	137.30	5,451.6	-3,634.4	4,919.3	1,886,623.36	1,290,165.54	36.179155	-107.436824
10,754.0	91.10	137.80	5,451.0	-3,681.6	4,962.5	1,886,575.61	1,290,208.14	36.179025	-107.436678
10,817.0	91.30	137.00	5,449.7	-3,728.0	5,005.1	1,886,528.72	1,290,250.20	36.178898	-107.436534
10,880.0	89.60	135.70	5,449.2	-3,773.6	5,048.6	1,886,482.60	1,290,293.11	36.178773	-107.436386
10,943.0	90.20	135.40	5,449.3	-3,818.6	5,092.7	1,886,437.09	1,290,336.67	36.178649	-107.436237
11,007.0	91.30	135.70	5,448.4	-3,864.2	5,137.5	1,886,390.85	1,290,380.91	36.178524	-107.436085
11,070.0	89.70	135.70	5,447.9	-3,909.3	5,181.5	1,886,345.22	1,290,424.35	36.178400	-107.435936
11,133.0	89.60	135.60	5,448.3	-3,954.4	5,225.6	1,886,299.63	1,290,467.82	36.178276	-107.435787
11,196.0	90.60	135.40	5,448.2	-3,999.3	5,269.7	1,886,254.15	1,290,511.42	36.178153	-107.435637
11,259.0	89.30	134.90	5,448.2	-4,044.0	5,314.2	1,886,208.94	1,290,555.29	36.178030	-107.435487
11,323.0	91.10	135.80	5,448.0	-4,089.5	5,359.1	1,886,162.86	1,290,599.70	36.177905	-107.435335
11,386.0	90.10	137.40	5,447.3	-4,135.3	5,402.4	1,886,116.56	1,290,642.41	36.177779	-107.435188
11,449.0	90.70	137.30	5,446.9	-4,181.6	5,445.1	1,886,069.70	1,290,684.51	36.177652	-107.435043
11,512.0	89.80	137.30	5,446.6	-4,227.9	5,487.8	1,886,022.87	1,290,726.66	36.177525	-107.434899
11,576.0	90.50	137.20	5,446.5	-4,274.9	5,531.3	1,885,975.34	1,290,769.52	36.177395	-107.434751
11,639.0	89.60	136.00	5,446.4	-4,320.7	5,574.6	1,885,929.03	1,290,812.23	36.177270	-107.434605
11,702.0	89.50	135.90	5,446.9	-4,366.0	5,618.4	1,885,883.21	1,290,855.47	36.177145	-107.434456
11,765.0	90.40	136.60	5,447.0	-4,411.5	5,661.9	1,885,837.17	1,290,898.46	36.177020	-107.434309
11,828.0	91.30	136.00	5,446.0	-4,457.0	5,705.4	1,885,791.09	1,290,941.42	36.176895	-107.434161
11,892.0	90.00	136.20	5,445.3	-4,503.1	5,749.8	1,885,744.43	1,290,985.21	36.176768	-107.434011
11,955.0	90.70	136.00	5,444.9	-4,548.5	5,793.5	1,885,698.50	1,291,028.33	36.176644	-107.433863
12,018.0	90.10	134.70	5,444.5	-4,593.3	5,837.8	1,885,653.14	1,291,072.04	36.176521	-107.433713
12,081.0	91.30	135.00	5,443.7	-4,637.8	5,882.4	1,885,608.16	1,291,116.15	36.176399	-107.433562
12,145.0	90.40	136.50	5,442.7	-4,683.6	5,927.1	1,885,561.78	1,291,160.23	36.176273	-107.433411
12,208.0	89.70	137.00	5,442.7	-4,729.5	5,970.3	1,885,515.36	1,291,202.82	36.176147	-107.433265
12,271.0	90.60	136.60	5,442.5	-4,775.4	6,013.4	1,885,468.90	1,291,245.38	36.176020	-107.433118
12,334.0	89.90	137.40	5,442.3	-4,821.5	6,056.3	1,885,422.30	1,291,287.77	36.175894	-107.432973
12,398.0	90.10	138.60	5,442.3	-4,869.0	6,099.2	1,885,374.21	1,291,330.00	36.175763	-107.432828
12,461.0	90.90	137.80	5,441.7	-4,916.0	6,141.2	1,885,326.73	1,291,371.40	36.175634	-107.432686
12,524.0	90.30	136.60	5,441.0	-4,962.2	6,184.0	1,885,279.98	1,291,413.62	36.175507	-107.432541
12,593.0	90.40	136.10	5,440.6	-5,012.1	6,231.6	1,885,229.47	1,291,460.63	36.175370	-107.432379
Last CES Survey @ 12,593' MD									
12,640.0	90.40	136.10	5,440.3	-5,046.0	6,264.2	1,885,195.20	1,291,492.79	36.175277	-107.432269
PTB @ 12,640'									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
GCU O27-2306 02H PB	0.00	0.00	5,442.1	-5,055.4	6,282.4	1,885,185.58	1,291,510.89	36.175251	-107.432207
- actual wellpath misses target center by 20.6ft at 12640.0ft MD (5440.3 TVD, -5046.0 N, 6264.2 E)									
- Point									

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU O27-2306 02H
Project:	Sandoval County, NM	TVD Reference:	KB @ 7002.0ft (Aztec 1099)
Site:	S27-T23N-R6W	MD Reference:	KB @ 7002.0ft (Aztec 1099)
Well:	GCU O27-2306 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,593.0	5,440.6	-5,012.1	6,231.6	Last CES Survey @ 12,593' MD
12,640.0	5,440.3	-5,046.0	6,264.2	PTB @ 12,640'

Checked By: _____ Approved By: _____ Date: _____