

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

*API Number 30-043-21179		*Pool Code 13379	*Pool Name COUNSELORS GALLUP-DAKOTA
*Property Code 40217	GALLO CANYON UNIT M27-2306		*Well Number 01H
*GRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.		*Elevation 7132'

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
M	27	23N	6W		990	SOUTH	186	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

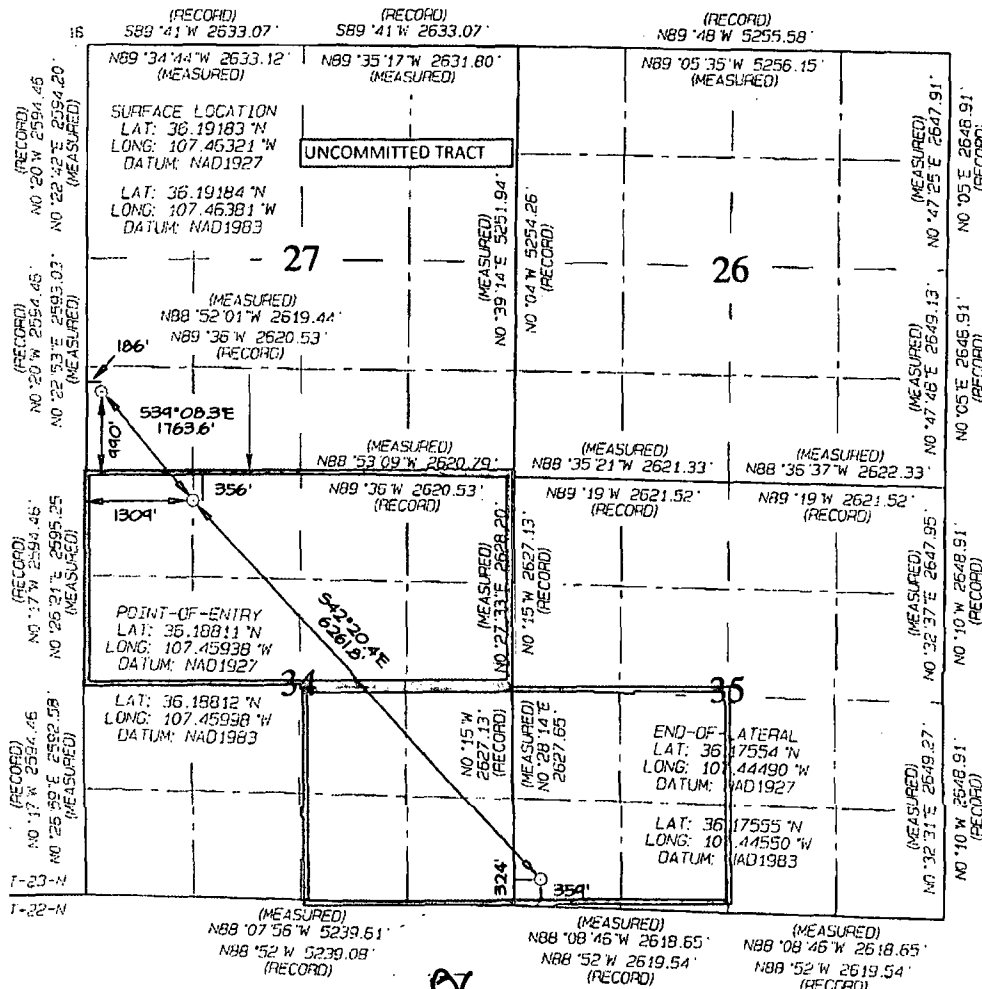
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	35	23N	6W		359	SOUTH	324	WEST	SANDOVAL

¹² Dedicated Acres 5.120 Acres Sec. 22-26, 34-36 - Undivided Unit Penetrated Spacing Units: N2, SE Sec 35, SW Sec 35 (640 acres)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13718-A (5.120 acres)
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OIL CONS. DIV DIST. 3

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

MAR 14 2014



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: Vy Nguyen
Date: 3/11/14
Printed Name: vy.nguyen@encana.com
E-mail Address:

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: JANUARY 3, 2014
Survey Date: DECEMBER 5, 2012
Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269

DEVIATION SURVEYS

MD (Feet)	Inclination (Degree)
369	.4
739	.4
1044	.7
1350	.3
1661	.4
1976	.6
2290	.9
2605	.1
2919	.5
3234	.8
3549	.8
3864	2.3
4179	.8
4495	.9
4766	.4
4924	12.8

OIL CONS. DIV DIST. 3
MAR 14 2014

OPERATOR CERTIFICATION

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



Vy Nguyen, Engineering Technologist

2/25/14

ACKNOWLEDGMENT

State of Colorado
City and County of Denver

This instrument was acknowledged before me on this 25th day of February, 2014 by Vy Nguyen as Attorney in Fact of Encana Oil & Gas (USA) Inc., on behalf of said corporation.

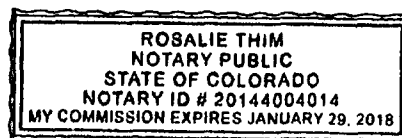
In witness whereof, I hereunto set my hand and official seal.

Notary Public:



My Commission Expires:

1/29/18



encana.

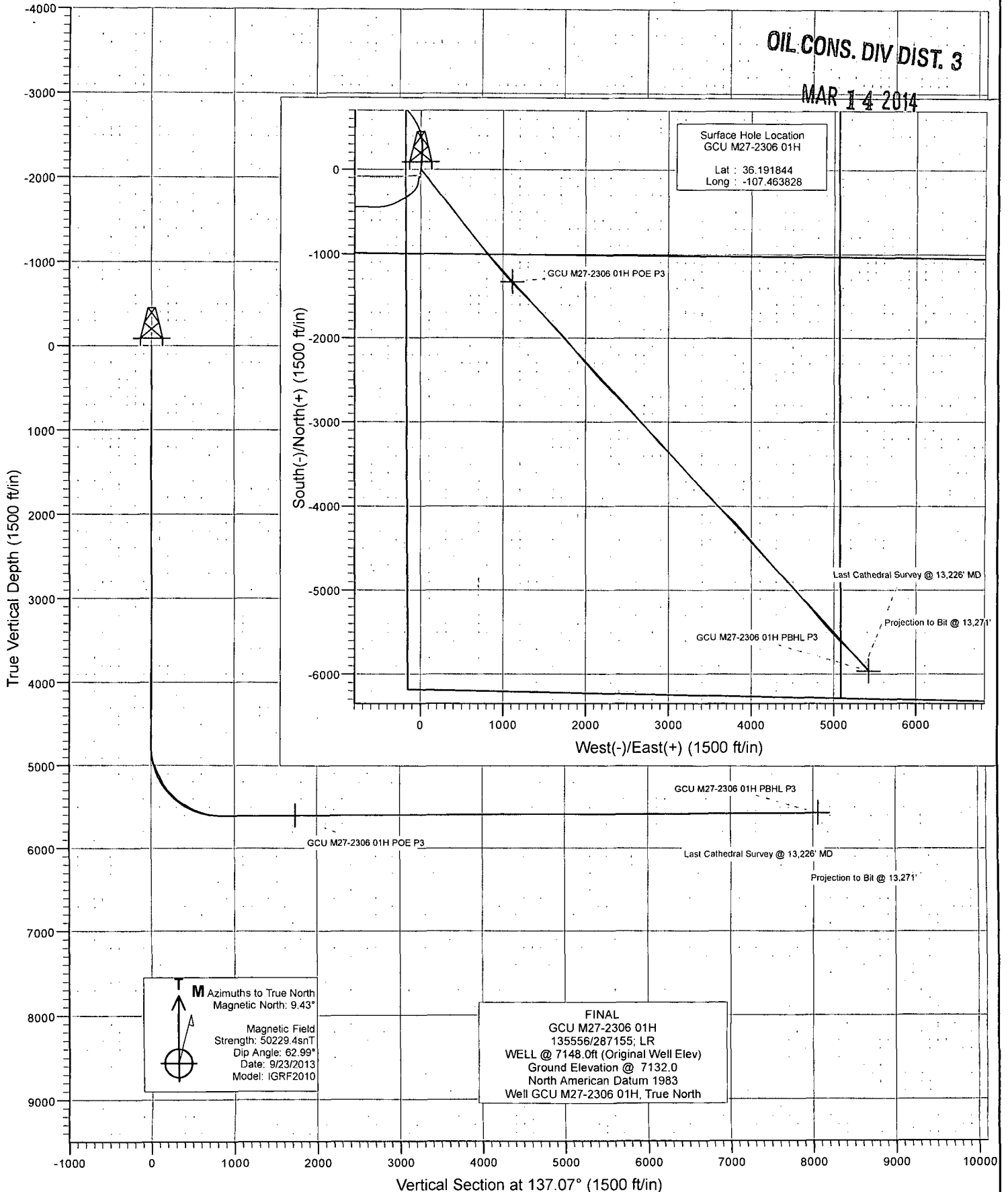
natural gas

Project: Sandoval County, NM
Site: GCU
Well: GCU M27-2306 01H
Wellbore: Hz
Design: FINAL



OIL CONS. DIV DIST. 3

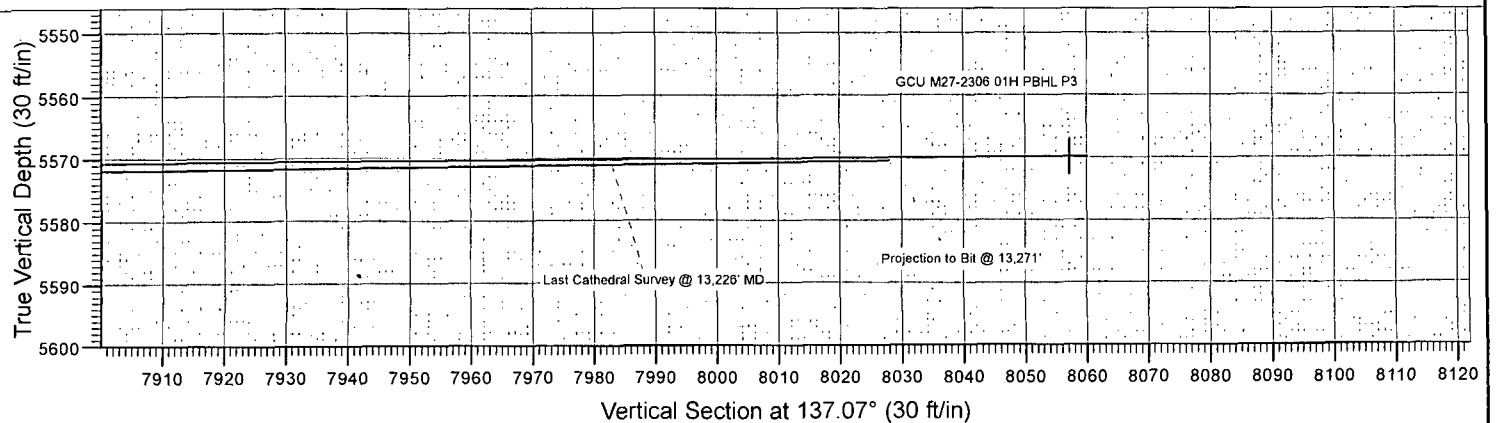
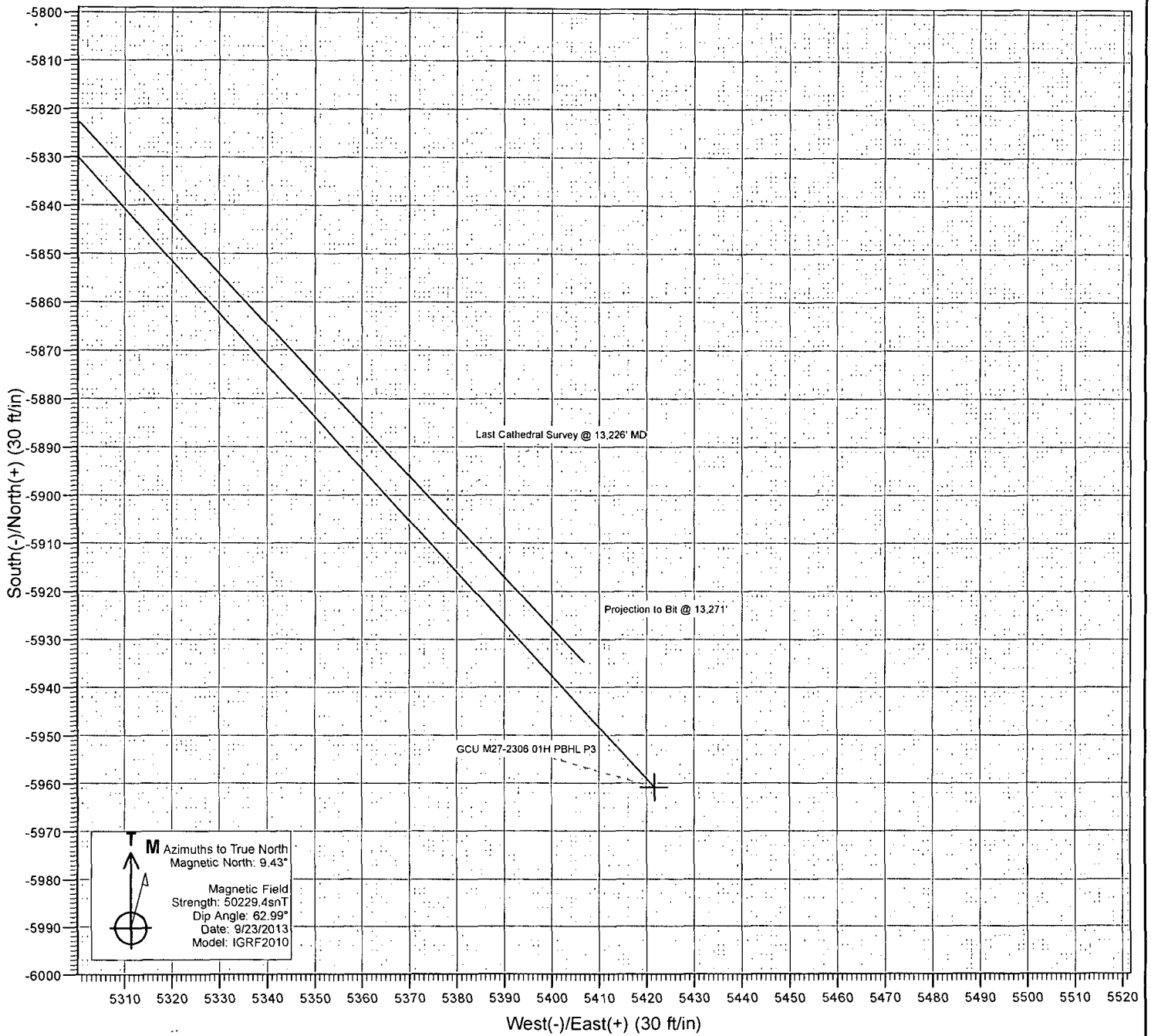
MAR 14 2014



encana

natural gas

Project: Sandoval County, NM
Site: GCU
Well: GCU M27-2306 01H
Wellbore: Hz
Design: FINAL



Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M27-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7148.0ft (Original Well Elev)
Site:	GCU	MD Reference:	WELL @ 7148.0ft (Original Well Elev)
Well:	GCU M27-2306 01H	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	GCU		
Site Position:		Northing:	1,888,889.10 ft
From:	Lat/Long	Easting:	1,281,990.06 ft
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	36.185100
		Longitude:	-107.464617
		Grid Convergence:	-0.72 °

Well	GCU M27-2306 01H		
Well Position	+N/-S	0.0 ft	Northing: 1,891,341.43 ft
	+E/-W	0.0 ft	Easting: 1,282,253.68 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36.191844
		Longitude:	-107.463828
		Ground Level:	7,132.0 ft

Wellbore	Hz		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	9/23/2013	9.42
			Dip Angle (°) 62.99
			Field Strength (nT) 50,229

Design	FINAL		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction (°) 137.07

Survey Program	Date 12/4/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
138.0	13,271.0	Survey #1 (Hz)	Geolink MWD
			Description 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	
138.0	0.50	242.50	138.0	-0.3	-0.5	-0.2	0.36	0.36	
223.0	0.50	243.20	223.0	-0.6	-1.2	-0.4	0.01	0.00	
309.0	0.60	250.30	309.0	-0.9	-2.0	-0.6	0.14	0.12	
369.0	0.40	228.20	369.0	-1.2	-2.4	-0.8	0.46	-0.33	
462.0	0.40	206.30	462.0	-1.7	-2.8	-0.7	0.16	0.00	
556.0	0.10	202.10	556.0	-2.1	-3.0	-0.5	0.32	-0.32	
617.0	0.10	216.40	617.0	-2.2	-3.0	-0.5	0.04	0.00	
678.0	0.00	0.00	678.0	-2.2	-3.1	-0.5	0.16	-0.16	
739.0	0.40	191.70	739.0	-2.4	-3.1	-0.3	0.66	0.66	
800.0	0.40	242.30	800.0	-2.7	-3.3	-0.3	0.56	0.00	
861.0	0.50	220.20	861.0	-3.0	-3.7	-0.3	0.33	0.16	
922.0	0.40	47.00	922.0	-3.1	-3.7	-0.3	1.47	-0.16	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M27-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7148.0ft (Original Well Elev)
Site:	GCU	MD Reference:	WELL @ 7148.0ft (Original Well Elev)
Well:	GCU M27-2306 01H	North Reference:	True
Wellbore:	Hz	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)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
983.0	0.70	50.80	983.0	-2.7	-3.3	-0.2	0.50	0.49	
1,044.0	0.70	47.00	1,044.0	-2.2	-2.7	-0.2	0.08	0.00	
1,106.0	0.60	53.40	1,106.0	-1.7	-2.2	-0.2	0.20	-0.16	
1,167.0	0.40	64.40	1,167.0	-1.5	-1.7	-0.1	0.36	-0.33	
1,228.0	0.20	108.30	1,228.0	-1.4	-1.4	0.1	0.48	-0.33	
1,289.0	0.10	33.80	1,289.0	-1.4	-1.3	0.1	0.33	-0.16	
1,350.0	0.30	260.30	1,350.0	-1.4	-1.4	0.0	0.62	0.33	
1,411.0	0.60	314.90	1,411.0	-1.2	-1.8	-0.4	0.81	0.49	
1,472.0	0.80	304.10	1,472.0	-0.7	-2.4	-1.1	0.39	0.33	
1,535.0	0.70	294.20	1,535.0	-0.3	-3.1	-1.9	0.26	-0.16	
1,598.0	0.40	329.70	1,598.0	0.0	-3.6	-2.4	0.70	-0.48	
1,661.0	0.40	25.80	1,661.0	0.4	-3.6	-2.7	0.60	0.00	
1,724.0	0.50	56.90	1,723.9	0.8	-3.2	-2.8	0.41	0.16	
1,789.0	0.80	37.90	1,788.9	1.3	-2.7	-2.8	0.56	0.46	
1,850.0	0.80	49.00	1,849.9	1.9	-2.1	-2.8	0.25	0.00	
1,913.0	0.60	47.60	1,912.9	2.4	-1.6	-2.8	0.32	-0.32	
1,976.0	0.60	49.10	1,975.9	2.8	-1.1	-2.8	0.02	0.00	
2,039.0	0.80	57.50	2,038.9	3.3	-0.5	-2.7	0.36	0.32	
2,102.0	0.70	96.90	2,101.9	3.5	0.3	-2.4	0.82	-0.16	
2,165.0	0.70	81.80	2,164.9	3.5	1.1	-1.8	0.29	0.00	
2,227.0	0.90	79.30	2,226.9	3.6	1.9	-1.4	0.33	0.32	
2,290.0	0.90	87.90	2,289.9	3.8	2.9	-0.8	0.21	0.00	
2,353.0	0.50	115.50	2,352.9	3.7	3.6	-0.2	0.81	-0.63	
2,416.0	0.30	117.40	2,415.9	3.5	4.0	0.2	0.32	-0.32	
2,479.0	0.20	132.30	2,478.9	3.3	4.3	0.5	0.19	-0.16	
2,542.0	0.50	112.50	2,541.9	3.1	4.6	0.8	0.51	0.48	
2,605.0	0.10	44.70	2,604.9	3.1	4.9	1.1	0.75	-0.63	
2,668.0	0.20	74.70	2,667.9	3.1	5.0	1.1	0.20	0.16	
2,731.0	0.10	99.40	2,730.9	3.2	5.2	1.2	0.19	-0.16	
2,794.0	0.10	221.20	2,793.9	3.1	5.2	1.3	0.28	0.00	
2,857.0	0.20	192.40	2,856.9	3.0	5.2	1.3	0.19	0.16	
2,919.0	0.50	150.10	2,918.9	2.6	5.3	1.7	0.61	0.48	
2,982.0	0.90	141.60	2,981.9	2.0	5.7	2.4	0.65	0.63	
3,045.0	1.00	154.30	3,044.9	1.1	6.3	3.5	0.37	0.16	
3,108.0	0.90	185.50	3,107.9	0.1	6.4	4.3	0.83	-0.16	
3,171.0	1.00	225.90	3,170.9	-0.8	6.0	4.6	1.05	0.16	
3,234.0	0.80	242.50	3,233.9	-1.3	5.2	4.5	0.52	-0.32	
3,297.0	0.80	220.30	3,296.8	-1.9	4.5	4.5	0.49	0.00	
3,360.0	0.70	220.60	3,359.8	-2.5	4.0	4.6	0.16	-0.16	
3,423.0	0.50	246.20	3,422.8	-2.9	3.5	4.5	0.52	-0.32	
3,486.0	0.90	285.20	3,485.8	-2.9	2.8	4.0	0.95	0.63	
3,549.0	0.80	290.90	3,548.8	-2.6	1.9	3.2	0.21	-0.16	
3,612.0	1.20	294.20	3,611.8	-2.2	0.9	2.2	0.64	0.63	
3,675.0	1.80	279.40	3,674.8	-1.7	-0.7	0.8	1.13	0.95	
3,738.0	1.50	319.90	3,737.8	-1.0	-2.2	-0.8	1.87	-0.48	
3,801.0	2.40	8.40	3,800.7	1.0	-2.5	-2.5	2.86	1.43	
3,864.0	2.30	14.50	3,863.7	3.5	-2.0	-4.0	0.43	-0.16	
3,927.0	1.30	29.80	3,926.7	5.4	-1.4	-4.8	1.75	-1.59	
3,990.0	0.80	28.50	3,989.6	6.4	-0.8	-5.2	0.79	-0.79	
4,053.0	0.70	63.10	4,052.6	6.9	-0.2	-5.2	0.72	-0.16	
4,116.0	0.90	82.50	4,115.6	7.2	0.6	-4.8	0.53	0.32	
4,179.0	0.80	121.70	4,178.6	7.0	1.4	-4.1	0.92	-0.16	
4,242.0	0.60	129.30	4,241.6	6.6	2.1	-3.4	0.35	-0.32	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M27-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7148.0ft (Original Well Elev)
Site:	GCU	MD Reference:	WELL @ 7148.0ft (Original Well Elev)
Well:	GCU M27-2306 01H	North Reference:	True
Wellbore:	Hz	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)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
4,305.0	0.90	132.80	4,304.6	6.0	2.7	-2.6	0.48	0.48	
4,368.0	0.80	171.60	4,367.6	5.2	3.1	-1.7	0.91	-0.16	
4,432.0	0.80	187.60	4,431.6	4.3	3.1	-1.1	0.35	0.00	
4,495.0	0.90	185.00	4,494.6	3.4	3.0	-0.4	0.17	0.16	
4,558.0	0.90	173.50	4,557.6	2.4	3.0	0.3	0.29	0.00	
4,621.0	0.60	179.00	4,620.6	1.6	3.1	0.9	0.49	-0.48	
4,684.0	0.20	226.90	4,683.6	1.2	3.0	1.2	0.78	-0.63	
4,735.0	0.10	309.10	4,734.6	1.2	2.9	1.1	0.41	-0.20	
4,766.0	0.40	305.70	4,765.6	1.3	2.8	1.0	0.97	0.97	
4,798.0	1.70	148.60	4,797.6	0.9	3.0	1.4	6.48	4.06	
4,829.0	5.30	147.90	4,828.5	-0.7	4.0	3.2	11.61	11.61	
4,861.0	8.90	146.90	4,860.3	-4.0	6.1	7.1	11.26	11.25	
4,892.0	11.50	145.40	4,890.8	-8.6	9.2	12.5	8.43	8.39	
4,924.0	12.80	141.30	4,922.1	-14.0	13.2	19.2	4.87	4.06	
4,955.0	14.90	139.30	4,952.2	-19.7	18.0	26.6	6.95	6.77	
4,986.0	17.40	139.80	4,981.9	-26.2	23.5	35.2	8.08	8.06	
5,018.0	19.70	139.90	5,012.3	-34.0	30.1	45.4	7.19	7.19	
5,049.0	21.60	140.30	5,041.3	-42.4	37.1	56.3	6.15	6.13	
5,081.0	23.70	140.10	5,070.8	-51.9	45.0	68.6	6.57	6.56	
5,113.0	24.90	141.40	5,100.0	-62.1	53.3	81.8	4.11	3.75	
5,144.0	26.10	141.10	5,127.9	-72.5	61.7	95.1	3.89	3.87	
5,175.0	27.00	140.80	5,155.7	-83.2	70.4	108.9	2.94	2.90	
5,207.0	28.40	140.50	5,184.0	-94.7	79.9	123.7	4.40	4.37	
5,238.0	31.10	141.50	5,210.9	-106.7	89.5	139.1	8.86	8.71	
5,270.0	34.10	142.40	5,237.9	-120.3	100.1	156.3	9.50	9.37	
5,301.0	36.40	144.40	5,263.2	-134.6	110.8	174.0	8.30	7.42	
5,333.0	38.40	144.40	5,288.6	-150.4	122.1	193.3	6.25	6.25	
5,364.0	40.70	145.30	5,312.5	-166.6	133.5	212.9	7.65	7.42	
5,396.0	42.80	144.10	5,336.4	-184.0	145.8	234.0	7.02	6.56	
5,427.0	45.20	141.50	5,358.7	-201.1	158.8	255.4	9.69	7.74	
5,458.0	47.50	138.90	5,380.1	-218.3	173.2	277.8	9.58	7.42	
5,490.0	49.80	138.70	5,401.2	-236.4	189.0	301.8	7.20	7.19	
5,521.0	52.10	139.30	5,420.7	-254.6	204.8	325.9	7.57	7.42	
5,553.0	54.50	140.50	5,439.9	-274.2	221.3	351.5	8.08	7.50	
5,585.0	56.60	140.40	5,458.0	-294.5	238.1	377.8	6.57	6.56	
5,616.0	58.90	139.70	5,474.5	-314.6	255.0	404.0	7.66	7.42	
5,648.0	60.20	139.80	5,490.7	-335.7	272.8	431.6	4.07	4.06	
5,679.0	61.60	139.40	5,505.8	-356.3	290.3	458.6	4.65	4.52	
5,711.0	62.90	138.90	5,520.7	-377.7	308.9	486.9	4.29	4.06	
5,742.0	65.50	139.10	5,534.2	-398.8	327.2	514.8	8.41	8.39	
5,774.0	67.90	140.00	5,546.9	-421.2	346.2	544.2	7.93	7.50	
5,805.0	70.30	141.40	5,557.9	-443.6	364.6	573.1	8.82	7.74	
5,836.0	72.60	142.20	5,567.8	-466.7	382.7	602.4	7.81	7.42	
5,868.0	74.50	142.50	5,576.8	-491.0	401.5	632.9	6.01	5.94	
5,899.0	76.40	142.50	5,584.6	-514.8	419.8	662.8	6.13	6.13	
5,929.0	78.60	142.40	5,591.1	-538.0	437.6	692.0	7.34	7.33	
5,966.0	81.30	142.00	5,597.6	-566.8	459.9	728.2	7.37	7.30	
5,996.0	83.60	142.00	5,601.5	-590.2	478.2	757.9	7.67	7.67	
6,027.0	85.50	140.20	5,604.5	-614.2	497.6	788.7	8.42	6.13	
6,057.0	86.80	139.40	5,606.5	-637.1	516.9	818.6	5.08	4.33	
6,089.0	88.40	139.80	5,607.8	-661.4	537.7	850.5	5.15	5.00	
6,120.0	89.20	141.00	5,608.5	-685.3	557.4	881.4	4.65	2.58	
6,183.0	89.90	140.80	5,609.0	-734.2	597.1	944.3	1.16	1.11	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M27-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M27-2306 01H
TVD Reference: WELL @ 7148.0ft (Original Well Elev)
MD Reference: WELL @ 7148.0ft (Original Well Elev)
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
6,246.0	90.60	141.20	5,608.7	-783.2	636.8	1,007.1	1.28	1.11	
6,309.0	90.30	140.10	5,608.2	-831.9	676.7	1,070.0	1.81	-0.48	
6,371.0	90.40	141.20	5,607.8	-879.8	716.0	1,131.9	1.78	0.16	
6,434.0	90.10	141.40	5,607.5	-929.0	755.4	1,194.7	0.57	-0.48	
6,497.0	91.00	140.80	5,606.9	-978.0	795.0	1,257.6	1.72	1.43	
6,560.0	90.80	140.30	5,605.9	-1,026.7	835.0	1,320.4	0.85	-0.32	
6,623.0	90.00	139.50	5,605.5	-1,074.8	875.6	1,383.4	1.80	-1.27	
6,685.0	89.70	140.00	5,605.7	-1,122.2	915.7	1,445.3	0.94	-0.48	
6,748.0	90.40	138.60	5,605.6	-1,169.9	956.7	1,508.2	2.48	1.11	
6,809.0	90.20	137.60	5,605.3	-1,215.3	997.5	1,569.2	1.67	-0.33	
6,873.0	89.80	137.70	5,605.3	-1,262.6	1,040.6	1,633.2	0.64	-0.62	
6,935.0	90.50	136.90	5,605.1	-1,308.2	1,082.6	1,695.2	1.71	1.13	
6,997.0	90.00	135.50	5,604.9	-1,352.9	1,125.5	1,757.2	2.40	-0.81	
7,060.0	90.80	136.20	5,604.4	-1,398.1	1,169.4	1,820.2	1.69	1.27	
7,122.0	89.10	135.90	5,604.5	-1,442.8	1,212.5	1,882.2	2.78	-2.74	
7,185.0	90.00	135.60	5,605.0	-1,487.9	1,256.4	1,945.2	1.51	1.43	
7,248.0	91.10	135.60	5,604.4	-1,532.9	1,300.5	2,008.1	1.75	1.75	
7,310.0	91.50	136.20	5,603.0	-1,577.4	1,343.6	2,070.1	1.16	0.65	
7,373.0	90.00	135.90	5,602.1	-1,622.8	1,387.3	2,133.1	2.43	-2.38	
7,435.0	90.20	136.50	5,602.0	-1,667.5	1,430.3	2,195.1	1.02	0.32	
7,498.0	89.50	136.10	5,602.2	-1,713.1	1,473.8	2,258.1	1.28	-1.11	
7,560.0	90.30	135.70	5,602.3	-1,757.6	1,516.9	2,320.1	1.44	1.29	
7,623.0	91.50	137.00	5,601.3	-1,803.2	1,560.4	2,383.0	2.81	1.90	
7,685.0	90.20	135.50	5,600.4	-1,847.9	1,603.3	2,445.0	3.20	-2.10	
7,748.0	89.60	135.70	5,600.5	-1,893.0	1,647.4	2,508.0	1.00	-0.95	
7,810.0	90.20	136.90	5,600.6	-1,937.8	1,690.2	2,570.0	2.16	0.97	
7,873.0	90.80	138.30	5,600.1	-1,984.3	1,732.7	2,633.0	2.42	0.95	
7,936.0	90.60	138.20	5,599.3	-2,031.3	1,774.6	2,696.0	0.35	-0.32	
7,999.0	90.20	139.10	5,598.8	-2,078.6	1,816.2	2,759.0	1.56	-0.63	
8,062.0	90.20	139.20	5,598.6	-2,126.2	1,857.4	2,821.9	0.16	0.00	
8,125.0	90.00	139.80	5,598.5	-2,174.1	1,898.4	2,884.9	1.00	-0.32	
8,188.0	90.90	139.50	5,598.0	-2,222.2	1,939.1	2,947.8	1.51	1.43	
8,250.0	90.40	137.80	5,597.3	-2,268.7	1,980.1	3,009.8	2.86	-0.81	
8,313.0	89.60	137.90	5,597.3	-2,315.4	2,022.4	3,072.8	1.28	-1.27	
8,375.0	90.50	138.90	5,597.3	-2,361.8	2,063.5	3,134.7	2.17	1.45	
8,438.0	90.30	137.80	5,596.8	-2,408.8	2,105.4	3,197.7	1.77	-0.32	
8,501.0	90.30	136.30	5,596.5	-2,454.9	2,148.3	3,260.7	2.38	0.00	
8,564.0	90.30	136.00	5,596.2	-2,500.4	2,192.0	3,323.7	0.48	0.00	
8,627.0	90.10	136.20	5,595.9	-2,545.8	2,235.7	3,386.7	0.45	-0.32	
8,690.0	90.40	138.00	5,595.7	-2,591.9	2,278.5	3,449.7	2.90	0.48	
8,753.0	90.00	137.30	5,595.4	-2,638.5	2,321.0	3,512.7	1.28	-0.63	
8,816.0	90.80	136.80	5,595.0	-2,684.6	2,363.9	3,575.7	1.50	1.27	
8,879.0	89.10	136.40	5,595.1	-2,730.4	2,407.2	3,638.7	2.77	-2.70	
8,942.0	90.20	136.30	5,595.4	-2,775.9	2,450.7	3,701.7	1.75	1.75	
9,005.0	91.00	136.00	5,594.8	-2,821.4	2,494.3	3,764.7	1.36	1.27	
9,068.0	89.30	135.10	5,594.6	-2,866.3	2,538.4	3,827.6	3.05	-2.70	
9,131.0	89.80	134.90	5,595.1	-2,910.9	2,583.0	3,890.6	0.85	0.79	
9,194.0	90.80	135.10	5,594.8	-2,955.4	2,627.5	3,953.5	1.62	1.59	
9,257.0	91.80	136.40	5,593.4	-3,000.6	2,671.5	4,016.5	2.60	1.59	
9,320.0	92.40	138.30	5,591.0	-3,046.9	2,714.1	4,079.5	3.16	0.95	
9,383.0	91.50	138.30	5,588.9	-3,093.9	2,756.0	4,142.4	1.43	-1.43	
9,446.0	90.50	139.10	5,587.8	-3,141.2	2,797.6	4,205.4	2.03	-1.59	
9,509.0	89.90	138.00	5,587.6	-3,188.4	2,839.3	4,268.4	1.99	-0.95	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M27-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7148.0ft (Original Well Elev)
Site:	GCU	MD Reference:	WELL @ 7148.0ft (Original Well Elev)
Well:	GCU M27-2306 01H	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)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
9,572.0	90.50	138.40	5,587.4	-3,235.4	2,881.3	4,331.3	1.14	0.95	
9,636.0	90.00	136.10	5,587.1	-3,282.4	2,924.7	4,395.3	3.68	-0.78	
9,699.0	90.70	135.20	5,586.7	-3,327.4	2,968.8	4,458.3	1.81	1.11	
9,762.0	90.00	135.20	5,586.3	-3,372.1	3,013.1	4,521.3	1.11	-1.11	
9,825.0	89.70	135.30	5,586.5	-3,416.9	3,057.5	4,584.2	0.50	-0.48	
9,887.0	90.40	135.50	5,586.4	-3,461.0	3,101.0	4,646.2	1.17	1.13	
9,951.0	90.30	137.10	5,586.0	-3,507.3	3,145.2	4,710.2	2.50	-0.16	
10,014.0	89.80	137.70	5,586.0	-3,553.6	3,187.9	4,773.2	1.24	-0.79	
10,076.0	89.70	137.80	5,586.3	-3,599.5	3,229.6	4,835.2	0.23	-0.16	
10,139.0	90.40	137.70	5,586.2	-3,646.2	3,271.9	4,898.2	1.12	1.11	
10,202.0	90.10	138.90	5,585.9	-3,693.2	3,313.8	4,961.2	1.96	-0.48	
10,265.0	90.20	138.00	5,585.8	-3,740.4	3,355.6	5,024.2	1.44	0.16	
10,328.0	90.00	137.50	5,585.6	-3,787.0	3,398.0	5,087.2	0.85	-0.32	
10,391.0	90.70	136.70	5,585.3	-3,833.1	3,440.9	5,150.2	1.69	1.11	
10,454.0	90.00	137.60	5,584.9	-3,879.3	3,483.7	5,213.2	1.81	-1.11	
10,517.0	90.20	136.10	5,584.8	-3,925.3	3,526.8	5,276.2	2.40	0.32	
10,580.0	89.80	134.70	5,584.8	-3,970.1	3,571.0	5,339.1	2.31	-0.63	
10,644.0	90.20	133.60	5,584.8	-4,014.7	3,617.0	5,403.0	1.83	0.62	
10,707.0	90.30	133.40	5,584.5	-4,058.1	3,662.6	5,465.9	0.35	0.16	
10,770.0	90.10	133.70	5,584.3	-4,101.5	3,708.3	5,528.8	0.57	-0.32	
10,833.0	90.20	133.30	5,584.1	-4,144.9	3,754.0	5,591.7	0.65	0.16	
10,896.0	90.00	134.40	5,584.0	-4,188.5	3,799.4	5,654.6	1.77	-0.32	
10,959.0	90.70	137.20	5,583.6	-4,233.7	3,843.4	5,717.6	4.58	1.11	
11,022.0	90.40	137.60	5,583.0	-4,280.0	3,886.0	5,780.5	0.79	-0.48	
11,085.0	89.70	139.20	5,583.0	-4,327.1	3,927.8	5,843.5	2.77	-1.11	
11,148.0	90.40	139.80	5,582.9	-4,375.0	3,968.7	5,906.5	1.46	1.11	
11,211.0	90.40	139.00	5,582.5	-4,422.9	4,009.7	5,969.4	1.27	0.00	
11,274.0	90.80	138.20	5,581.8	-4,470.1	4,051.4	6,032.4	1.42	0.63	
11,337.0	90.60	138.90	5,581.0	-4,517.3	4,093.1	6,095.4	1.16	-0.32	
11,400.0	89.40	138.30	5,581.0	-4,564.6	4,134.8	6,158.3	2.13	-1.90	
11,463.0	90.20	137.80	5,581.2	-4,611.5	4,176.9	6,221.3	1.50	1.27	
11,526.0	90.50	138.00	5,580.9	-4,658.2	4,219.1	6,284.3	0.57	0.48	
11,589.0	90.40	138.00	5,580.4	-4,705.0	4,261.3	6,347.3	0.16	-0.16	
11,652.0	90.20	137.90	5,580.0	-4,751.8	4,303.5	6,410.3	0.35	-0.32	
11,715.0	89.80	135.90	5,580.0	-4,797.8	4,346.5	6,473.3	3.24	-0.63	
11,779.0	89.80	136.40	5,580.3	-4,844.0	4,390.8	6,537.3	0.78	0.00	
11,842.0	90.20	136.60	5,580.3	-4,889.6	4,434.2	6,600.3	0.71	0.63	
11,905.0	90.50	137.40	5,579.9	-4,935.7	4,477.2	6,663.3	1.36	0.48	
11,968.0	90.90	138.50	5,579.1	-4,982.5	4,519.4	6,726.3	1.86	0.63	
12,031.0	90.80	139.00	5,578.2	-5,029.9	4,560.9	6,789.2	0.81	-0.16	
12,094.0	90.60	139.50	5,577.4	-5,077.6	4,602.0	6,852.2	0.85	-0.32	
12,157.0	89.70	139.20	5,577.2	-5,125.4	4,643.1	6,915.1	1.51	-1.43	
12,220.0	90.30	139.40	5,577.2	-5,173.1	4,684.1	6,978.1	1.00	0.95	
12,283.0	91.50	139.80	5,576.2	-5,221.1	4,725.0	7,041.0	2.01	1.90	
12,346.0	90.30	139.00	5,575.3	-5,268.9	4,766.0	7,104.0	2.29	-1.90	
12,408.0	90.80	139.60	5,574.7	-5,315.9	4,806.4	7,165.9	1.26	0.81	
12,471.0	90.90	140.00	5,573.7	-5,364.1	4,847.0	7,228.8	0.65	0.16	
12,535.0	89.40	139.30	5,573.6	-5,412.8	4,888.5	7,292.8	2.59	-2.34	
12,598.0	89.70	138.00	5,574.1	-5,460.1	4,930.1	7,355.7	2.12	0.48	
12,660.0	89.40	136.00	5,574.5	-5,505.5	4,972.4	7,417.7	3.26	-0.48	
12,724.0	90.30	134.10	5,574.7	-5,550.8	5,017.6	7,481.7	3.28	1.41	
12,786.0	91.10	134.50	5,574.0	-5,594.0	5,062.0	7,543.6	1.44	1.29	
12,849.0	90.00	133.60	5,573.3	-5,637.8	5,107.2	7,606.5	2.26	-1.75	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M27-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7148.0ft (Original Well Elev)
Site:	GCU	MD Reference:	WELL @ 7148.0ft (Original Well Elev)
Well:	GCU M27-2306 01H	North Reference:	True
Wellbore:	Hz	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)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
12,912.0	90.00	131.90	5,573.3	-5,680.6	5,153.5	7,669.3	2.70	0.00	
12,975.0	90.00	132.70	5,573.3	-5,723.0	5,200.1	7,732.1	1.27	0.00	
13,038.0	90.90	134.70	5,572.9	-5,766.5	5,245.6	7,795.0	3.48	1.43	
13,101.0	90.40	136.70	5,572.1	-5,811.6	5,289.6	7,858.0	3.27	-0.79	
13,164.0	90.40	136.30	5,571.7	-5,857.3	5,333.0	7,921.0	0.63	0.00	
13,226.0	90.80	136.40	5,571.0	-5,902.2	5,375.8	7,983.0	0.67	0.65	Last Cathedral Survey @ 13,226' MD
13,271.0	90.80	136.40	5,570.4	-5,934.8	5,406.8	8,028.0	0.00	0.00	Projection to Bit @ 13,271'

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 M27-2306 01H PB	0.00	0.00	5,569.8	-5,960.8	5,421.6	1,885,313.21	1,287,600.30	36.175470	-107.445460
- actual wellpath misses target center by 30.0ft at 13271.0ft MD (5570.4 TVD, -5934.8 N, 5406.8 E)									
- Point									
GCU M27-2306 01H PB	0.00	0.00	5,557.8	-5,960.8	5,421.6	1,885,313.21	1,287,600.30	36.175470	-107.445460
- actual wellpath misses target center by 32.5ft at 13271.0ft MD (5570.4 TVD, -5934.8 N, 5406.8 E)									
- Point									
GCU M27-2306 01H PO	0.00	0.00	5,602.9	-1,330.4	1,114.9	1,889,997.14	1,283,351.85	36.188190	-107.460050
- actual wellpath misses target center by 8.3ft at 6973.4ft MD (5604.9 TVD, -1336.0 N, 1109.1 E)									
- Point									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
13,226.0	5,571.0	-5,902.2	5,375.8	Last Cathedral Survey @ 13,226' MD
13,271.0	5,570.4	-5,934.8	5,406.8	Projection to Bit @ 13,271'

Checked By: _____	Approved By: _____	Date: _____
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EnCana Oil & Gas (USA) Inc

Sandoval County, NM

GCU

GCU M27-2306 01H

Hz

OIL CONS. DIV DIST. 3

MAR 14 2014

Design: FINAL

Survey Report - Geographic

04 December, 2013



CATHEDRAL



Cathedral Energy Services

Survey Report - Geographic

**CATHEDRAL**

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M27-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 7148.0ft (Original Well Elev)
Site:	GCU	MD Reference:	WELL @ 7148.0ft (Original Well Elev)
Well:	GCU M27-2306 01H	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		GCU			
Site Position:		Northing:	1,888,889.11 ft	Latitude:	36.185100
From:	Lat/Long	Easting:	1,281,990.05 ft	Longitude:	-107.464617
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.72 °

Well	GCU M27-2306 01H					
Well Position	+N/-S	0.0 ft	Northing:	1,891,341.43 ft	Latitude:	36.191845
	+E/-W	0.0 ft	Easting:	1,282,253.68 ft	Longitude:	-107.463828
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,132.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/23/2013	9.42	62.99	50,229

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	137.07

Survey Program		Date	12/4/2013		
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
138.0	13,271.0	Survey #1 (Hz)	Geolink MWD	Geolink MWD	

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map			
Depth	(°)	(°)	Depth	(ft)	(ft)	Northing	Easting	Latitude	Longitude	
(ft)			(ft)			(ft)	(ft)			
0.0	0.00	0.00	0.0	0.0	0.0	1,891,341.43	1,282,253.68	36.191845	-107.463828	
138.0	0.50	242.50	138.0	-0.3	-0.5	1,891,341.16	1,282,253.14	36.191844	-107.463830	
223.0	0.50	243.20	223.0	-0.6	-1.2	1,891,340.83	1,282,252.48	36.191843	-107.463832	
309.0	0.60	250.30	309.0	-0.9	-2.0	1,891,340.52	1,282,251.71	36.191842	-107.463835	
369.0	0.40	228.20	369.0	-1.2	-2.4	1,891,340.28	1,282,251.26	36.191841	-107.463836	
462.0	0.40	206.30	462.0	-1.7	-2.8	1,891,339.77	1,282,250.87	36.191840	-107.463838	
556.0	0.10	202.10	556.0	-2.1	-3.0	1,891,339.41	1,282,250.69	36.191839	-107.463838	
617.0	0.10	216.40	617.0	-2.2	-3.0	1,891,339.32	1,282,250.63	36.191839	-107.463838	
678.0	0.00	0.00	678.0	-2.2	-3.1	1,891,339.27	1,282,250.60	36.191839	-107.463838	
739.0	0.40	191.70	739.0	-2.4	-3.1	1,891,339.06	1,282,250.56	36.191838	-107.463839	
800.0	0.40	242.30	800.0	-2.7	-3.3	1,891,338.76	1,282,250.32	36.191837	-107.463839	
861.0	0.50	220.20	861.0	-3.0	-3.7	1,891,338.46	1,282,249.96	36.191836	-107.463841	

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M27-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M27-2306 01H
TVD Reference: WELL @ 7148.0ft (Original Well Elev)
MD Reference: WELL @ 7148.0ft (Original Well Elev)
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
922.0	0.40	47.00	922.0	-3.1	-3.7	1,891,338.40	1,282,249.94	36.191836	-107.463841
983.0	0.70	50.80	983.0	-2.7	-3.3	1,891,338.78	1,282,250.39	36.191837	-107.463839
1,044.0	0.70	47.00	1,044.0	-2.2	-2.7	1,891,339.26	1,282,250.96	36.191838	-107.463837
1,106.0	0.60	53.40	1,106.0	-1.7	-2.2	1,891,339.71	1,282,251.50	36.191840	-107.463835
1,167.0	0.40	64.40	1,167.0	-1.5	-1.7	1,891,339.98	1,282,251.95	36.191841	-107.463834
1,228.0	0.20	108.30	1,228.0	-1.4	-1.4	1,891,340.04	1,282,252.24	36.191841	-107.463833
1,289.0	0.10	33.80	1,289.0	-1.4	-1.3	1,891,340.05	1,282,252.38	36.191841	-107.463832
1,350.0	0.30	260.30	1,350.0	-1.4	-1.4	1,891,340.07	1,282,252.25	36.191841	-107.463833
1,411.0	0.60	314.90	1,411.0	-1.2	-1.8	1,891,340.27	1,282,251.87	36.191841	-107.463834
1,472.0	0.80	304.10	1,472.0	-0.7	-2.4	1,891,340.74	1,282,251.29	36.191843	-107.463836
1,535.0	0.70	294.20	1,535.0	-0.3	-3.1	1,891,341.16	1,282,250.58	36.191844	-107.463839
1,598.0	0.40	329.70	1,598.0	0.0	-3.6	1,891,341.51	1,282,250.13	36.191845	-107.463840
1,661.0	0.40	25.80	1,661.0	0.4	-3.6	1,891,341.90	1,282,250.12	36.191846	-107.463840
1,724.0	0.50	56.90	1,723.9	0.8	-3.2	1,891,342.24	1,282,250.45	36.191847	-107.463839
1,789.0	0.80	37.90	1,788.9	1.3	-2.7	1,891,342.75	1,282,250.97	36.191848	-107.463837
1,850.0	0.80	49.00	1,849.9	1.9	-2.1	1,891,343.36	1,282,251.56	36.191850	-107.463835
1,913.0	0.60	47.60	1,912.9	2.4	-1.6	1,891,343.86	1,282,252.14	36.191851	-107.463833
1,976.0	0.60	49.10	1,975.9	2.8	-1.1	1,891,344.29	1,282,252.64	36.191852	-107.463832
2,039.0	0.80	57.50	2,038.9	3.3	-0.5	1,891,344.74	1,282,253.27	36.191854	-107.463830
2,102.0	0.70	96.90	2,101.9	3.5	0.3	1,891,344.92	1,282,254.02	36.191854	-107.463827
2,165.0	0.70	81.80	2,164.9	3.5	1.1	1,891,344.92	1,282,254.78	36.191854	-107.463824
2,227.0	0.90	79.30	2,226.9	3.6	1.9	1,891,345.05	1,282,255.64	36.191855	-107.463822
2,290.0	0.90	87.90	2,289.9	3.8	2.9	1,891,345.15	1,282,256.62	36.191855	-107.463818
2,353.0	0.50	115.50	2,352.9	3.7	3.6	1,891,345.04	1,282,257.36	36.191855	-107.463816
2,416.0	0.30	117.40	2,415.9	3.5	4.0	1,891,344.84	1,282,257.75	36.191854	-107.463814
2,479.0	0.20	132.30	2,478.9	3.3	4.3	1,891,344.69	1,282,257.98	36.191854	-107.463814
2,542.0	0.50	112.50	2,541.9	3.1	4.6	1,891,344.50	1,282,258.31	36.191853	-107.463812
2,605.0	0.10	44.70	2,604.9	3.1	4.9	1,891,344.43	1,282,258.61	36.191853	-107.463811
2,668.0	0.20	74.70	2,667.9	3.1	5.0	1,891,344.50	1,282,258.75	36.191853	-107.463811
2,731.0	0.10	99.40	2,730.9	3.2	5.2	1,891,344.52	1,282,258.91	36.191853	-107.463810
2,794.0	0.10	221.20	2,793.9	3.1	5.2	1,891,344.47	1,282,258.93	36.191853	-107.463810
2,857.0	0.20	192.40	2,856.9	3.0	5.2	1,891,344.32	1,282,258.87	36.191853	-107.463811
2,919.0	0.50	150.10	2,918.9	2.6	5.3	1,891,343.98	1,282,258.97	36.191852	-107.463810
2,982.0	0.90	141.60	2,981.9	2.0	5.7	1,891,343.34	1,282,259.41	36.191850	-107.463809
3,045.0	1.00	154.30	3,044.9	1.1	6.3	1,891,342.45	1,282,259.95	36.191848	-107.463807
3,108.0	0.90	185.50	3,107.9	0.1	6.4	1,891,341.46	1,282,260.12	36.191845	-107.463806
3,171.0	1.00	225.90	3,170.9	-0.8	6.0	1,891,340.60	1,282,259.67	36.191842	-107.463808
3,234.0	0.80	242.50	3,233.9	-1.3	5.2	1,891,340.02	1,282,258.88	36.191841	-107.463810
3,297.0	0.80	220.30	3,296.8	-1.9	4.5	1,891,339.49	1,282,258.20	36.191839	-107.463813
3,360.0	0.70	220.60	3,359.8	-2.5	4.0	1,891,338.87	1,282,257.65	36.191838	-107.463814
3,423.0	0.50	246.20	3,422.8	-2.9	3.5	1,891,338.47	1,282,257.15	36.191837	-107.463816
3,486.0	0.90	285.20	3,485.8	-2.9	2.8	1,891,338.50	1,282,256.42	36.191837	-107.463819
3,549.0	0.80	290.90	3,548.8	-2.6	1.9	1,891,338.80	1,282,255.53	36.191837	-107.463822
3,612.0	1.20	294.20	3,611.8	-2.2	0.9	1,891,339.24	1,282,254.53	36.191839	-107.463825
3,675.0	1.80	279.40	3,674.8	-1.7	-0.7	1,891,339.69	1,282,252.95	36.191840	-107.463830
3,738.0	1.50	319.90	3,737.8	-1.0	-2.2	1,891,340.50	1,282,251.46	36.191842	-107.463836
3,801.0	2.40	8.40	3,800.7	1.0	-2.5	1,891,342.44	1,282,251.14	36.191847	-107.463837
3,864.0	2.30	14.50	3,863.7	3.5	-2.0	1,891,344.96	1,282,251.68	36.191854	-107.463835
3,927.0	1.30	29.80	3,926.7	5.4	-1.4	1,891,346.80	1,282,252.38	36.191859	-107.463833
3,990.0	0.80	28.50	3,989.6	6.4	-0.8	1,891,347.80	1,282,252.96	36.191862	-107.463831
4,053.0	0.70	63.10	4,052.6	6.9	-0.2	1,891,348.35	1,282,253.52	36.191864	-107.463829
4,116.0	0.90	82.50	4,115.6	7.2	0.6	1,891,348.58	1,282,254.35	36.191864	-107.463826
4,179.0	0.80	121.70	4,178.6	7.0	1.4	1,891,348.40	1,282,255.22	36.191864	-107.463823
4,242.0	0.60	129.30	4,241.6	6.6	2.1	1,891,347.95	1,282,255.84	36.191863	-107.463821
4,305.0	0.90	132.80	4,304.6	6.0	2.7	1,891,347.40	1,282,256.45	36.191861	-107.463819



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Wellbore: Hz
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TVD Reference: WELL @ 7148.0ft (Original Well Elev)
MD Reference: WELL @ 7148.0ft (Original Well Elev)
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
4,368.0	0.80	171.60	4,367.6	5.2	3.1	1,891,346.62	1,282,256.87	36.191859	-107.463817
4,432.0	0.80	187.60	4,431.6	4.3	3.1	1,891,345.74	1,282,256.86	36.191856	-107.463817
4,495.0	0.90	185.00	4,494.6	3.4	3.0	1,891,344.81	1,282,256.75	36.191854	-107.463818
4,558.0	0.90	173.50	4,557.6	2.4	3.0	1,891,343.83	1,282,256.75	36.191851	-107.463818
4,621.0	0.60	179.00	4,620.6	1.6	3.1	1,891,343.01	1,282,256.80	36.191849	-107.463818
4,684.0	0.20	226.90	4,683.6	1.2	3.0	1,891,342.60	1,282,256.72	36.191848	-107.463818
4,735.0	0.10	309.10	4,734.6	1.2	2.9	1,891,342.57	1,282,256.62	36.191848	-107.463818
4,766.0	0.40	305.70	4,765.6	1.3	2.8	1,891,342.65	1,282,256.52	36.191848	-107.463818
4,798.0	1.70	148.60	4,797.6	0.9	3.0	1,891,342.31	1,282,256.67	36.191847	-107.463818
4,829.0	5.30	147.90	4,828.5	-0.7	4.0	1,891,340.69	1,282,257.65	36.191843	-107.463815
4,861.0	8.90	146.90	4,860.3	-4.0	6.1	1,891,337.34	1,282,259.74	36.191834	-107.463807
4,892.0	11.50	145.40	4,890.8	-8.6	9.2	1,891,332.75	1,282,262.75	36.191821	-107.463797
4,924.0	12.80	141.30	4,922.1	-14.0	13.2	1,891,327.30	1,282,266.71	36.191806	-107.463783
4,955.0	14.90	139.30	4,952.2	-19.7	18.0	1,891,321.54	1,282,271.39	36.191791	-107.463767
4,986.0	17.40	139.80	4,981.9	-26.2	23.5	1,891,314.91	1,282,276.90	36.191772	-107.463748
5,018.0	19.70	139.90	5,012.3	-34.0	30.1	1,891,307.05	1,282,283.36	36.191751	-107.463726
5,049.0	21.60	140.30	5,041.3	-42.4	37.1	1,891,298.57	1,282,290.27	36.191728	-107.463702
5,081.0	23.70	140.10	5,070.8	-51.9	45.0	1,891,289.01	1,282,298.04	36.191702	-107.463676
5,113.0	24.90	141.40	5,100.0	-62.1	53.3	1,891,278.71	1,282,306.24	36.191674	-107.463647
5,144.0	26.10	141.10	5,127.9	-72.5	61.7	1,891,268.20	1,282,314.46	36.191645	-107.463619
5,175.0	27.00	140.80	5,155.7	-83.2	70.4	1,891,257.33	1,282,323.05	36.191616	-107.463589
5,207.0	28.40	140.50	5,184.0	-94.7	79.9	1,891,245.71	1,282,332.34	36.191584	-107.463557
5,238.0	31.10	141.50	5,210.9	-106.7	89.5	1,891,233.63	1,282,341.87	36.191551	-107.463525
5,270.0	34.10	142.40	5,237.9	-120.3	100.1	1,891,219.92	1,282,352.32	36.191514	-107.463489
5,301.0	36.40	144.40	5,263.2	-134.6	110.8	1,891,205.42	1,282,362.79	36.191475	-107.463453
5,333.0	38.40	144.40	5,288.6	-150.4	122.1	1,891,189.48	1,282,373.91	36.191431	-107.463414
5,364.0	40.70	145.30	5,312.5	-166.6	133.5	1,891,173.20	1,282,385.07	36.191387	-107.463376
5,396.0	42.80	144.10	5,336.4	-184.0	145.8	1,891,155.66	1,282,397.16	36.191339	-107.463334
5,427.0	45.20	141.50	5,358.7	-201.1	158.8	1,891,138.36	1,282,409.97	36.191292	-107.463290
5,458.0	47.50	138.90	5,380.1	-218.3	173.2	1,891,120.95	1,282,424.12	36.191245	-107.463241
5,490.0	49.80	138.70	5,401.2	-236.4	189.0	1,891,102.69	1,282,439.71	36.191195	-107.463188
5,521.0	52.10	139.30	5,420.7	-254.6	204.8	1,891,084.32	1,282,455.28	36.191145	-107.463134
5,553.0	54.50	140.50	5,439.9	-274.2	221.3	1,891,064.49	1,282,471.55	36.191091	-107.463078
5,585.0	56.60	140.40	5,458.0	-294.5	238.1	1,891,043.93	1,282,488.10	36.191036	-107.463021
5,616.0	58.90	139.70	5,474.5	-314.6	255.0	1,891,023.63	1,282,504.68	36.190980	-107.462964
5,648.0	60.20	139.80	5,490.7	-335.7	272.8	1,891,002.35	1,282,522.24	36.190922	-107.462904
5,679.0	61.60	139.40	5,505.8	-356.3	290.3	1,890,981.51	1,282,539.53	36.190866	-107.462844
5,711.0	62.90	138.90	5,520.7	-377.7	308.9	1,890,959.86	1,282,557.79	36.190807	-107.462781
5,742.0	65.50	139.10	5,534.2	-398.8	327.2	1,890,938.57	1,282,575.83	36.190749	-107.462719
5,774.0	67.90	140.00	5,546.9	-421.2	346.2	1,890,915.97	1,282,594.62	36.190688	-107.462655
5,805.0	70.30	141.40	5,557.9	-443.6	364.6	1,890,893.33	1,282,612.67	36.190626	-107.462593
5,836.0	72.60	142.20	5,567.8	-466.7	382.7	1,890,870.01	1,282,630.55	36.190563	-107.462531
5,868.0	74.50	142.50	5,576.8	-491.0	401.5	1,890,845.48	1,282,648.99	36.190496	-107.462468
5,899.0	76.40	142.50	5,584.6	-514.8	419.8	1,890,821.45	1,282,666.96	36.190431	-107.462406
5,929.0	78.60	142.40	5,591.1	-538.0	437.6	1,890,798.01	1,282,684.52	36.190367	-107.462345
5,966.0	81.30	142.00	5,597.6	-566.8	459.9	1,890,768.95	1,282,706.48	36.190288	-107.462270
5,996.0	83.60	142.00	5,601.5	-590.2	478.2	1,890,745.28	1,282,724.50	36.190223	-107.462208
6,027.0	85.50	140.20	5,604.5	-614.2	497.6	1,890,721.03	1,282,743.57	36.190157	-107.462142
6,057.0	86.80	139.40	5,606.5	-637.1	516.9	1,890,697.93	1,282,762.61	36.190095	-107.462076
6,089.0	88.40	139.80	5,607.8	-661.4	537.7	1,890,673.32	1,282,783.02	36.190028	-107.462006
6,120.0	89.20	141.00	5,608.5	-685.3	557.4	1,890,649.20	1,282,802.47	36.189962	-107.461939
6,183.0	89.90	140.80	5,609.0	-734.2	597.1	1,890,599.82	1,282,841.59	36.189828	-107.461805
6,246.0	90.60	141.20	5,608.7	-783.2	636.8	1,890,550.36	1,282,880.62	36.189693	-107.461670
6,309.0	90.30	140.10	5,608.2	-831.9	676.7	1,890,501.15	1,282,919.95	36.189560	-107.461535
6,371.0	90.40	141.20	5,607.8	-879.8	716.0	1,890,452.72	1,282,958.66	36.189428	-107.461402

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TVD Reference: WELL @ 7148.0ft (Original Well Elev)
MD Reference: WELL @ 7148.0ft (Original Well Elev)
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
6,434.0	90.10	141.40	5,607.5	-929.0	755.4	1,890,403.07	1,282,997.43	36.189293	-107.461268
6,497.0	91.00	140.80	5,606.9	-978.0	795.0	1,890,353.55	1,283,036.37	36.189158	-107.461134
6,560.0	90.80	140.30	5,605.9	-1,026.7	835.0	1,890,304.41	1,283,075.79	36.189025	-107.460999
6,623.0	90.00	139.50	5,605.5	-1,074.8	875.6	1,890,255.72	1,283,115.76	36.188892	-107.460861
6,685.0	89.70	140.00	5,605.7	-1,122.2	915.7	1,890,207.90	1,283,155.22	36.188762	-107.460725
6,748.0	90.40	138.60	5,605.6	-1,169.9	956.7	1,890,159.63	1,283,195.70	36.188631	-107.460586
6,809.0	90.20	137.60	5,605.3	-1,215.3	997.5	1,890,113.72	1,283,235.87	36.188506	-107.460448
6,873.0	89.80	137.70	5,605.3	-1,262.6	1,040.6	1,890,065.89	1,283,278.39	36.188376	-107.460302
6,935.0	90.50	136.90	5,605.1	-1,308.2	1,082.6	1,890,019.80	1,283,319.86	36.188251	-107.460160
6,973.4	90.19	136.03	5,604.9	-1,336.0	1,109.1	1,889,991.63	1,283,345.97	36.188175	-107.460070
GCU M27-2306 01H POE P3									
6,997.0	90.00	135.50	5,604.9	-1,352.9	1,125.5	1,889,974.52	1,283,362.21	36.188128	-107.460014
7,060.0	90.80	136.20	5,604.4	-1,398.1	1,169.4	1,889,928.78	1,283,405.52	36.188004	-107.459866
7,122.0	89.10	135.90	5,604.5	-1,442.8	1,212.5	1,889,883.61	1,283,447.99	36.187882	-107.459720
7,185.0	90.00	135.60	5,605.0	-1,487.9	1,256.4	1,889,837.93	1,283,491.38	36.187758	-107.459571
7,248.0	91.10	135.60	5,604.4	-1,532.9	1,300.5	1,889,792.38	1,283,534.89	36.187634	-107.459421
7,310.0	91.50	136.20	5,603.0	-1,577.4	1,343.6	1,889,747.33	1,283,577.46	36.187512	-107.459275
7,373.0	90.00	135.90	5,602.1	-1,622.8	1,387.3	1,889,701.43	1,283,620.61	36.187387	-107.459127
7,435.0	90.20	136.50	5,602.0	-1,667.5	1,430.3	1,889,656.15	1,283,662.96	36.187264	-107.458982
7,498.0	89.50	136.10	5,602.2	-1,713.1	1,473.8	1,889,610.06	1,283,705.91	36.187139	-107.458834
7,560.0	90.30	135.70	5,602.3	-1,757.6	1,516.9	1,889,565.00	1,283,748.50	36.187017	-107.458688
7,623.0	91.50	137.00	5,601.3	-1,803.2	1,560.4	1,889,518.89	1,283,791.40	36.186892	-107.458541
7,685.0	90.20	135.50	5,600.4	-1,847.9	1,603.3	1,889,473.57	1,283,833.71	36.186769	-107.458396
7,748.0	89.60	135.70	5,600.5	-1,893.0	1,647.4	1,889,428.02	1,283,877.22	36.186645	-107.458246
7,810.0	90.20	136.90	5,600.6	-1,937.8	1,690.2	1,889,382.66	1,283,919.49	36.186522	-107.458101
7,873.0	90.80	138.30	5,600.1	-1,984.3	1,732.7	1,889,335.61	1,283,961.38	36.186394	-107.457957
7,936.0	90.60	138.20	5,599.3	-2,031.3	1,774.6	1,889,288.09	1,284,002.74	36.186265	-107.457815
7,999.0	90.20	139.10	5,598.8	-2,078.6	1,816.2	1,889,240.28	1,284,043.76	36.186135	-107.457674
8,062.0	90.20	139.20	5,598.6	-2,126.2	1,857.4	1,889,192.12	1,284,084.37	36.186004	-107.457534
8,125.0	90.00	139.80	5,598.5	-2,174.1	1,898.4	1,889,143.71	1,284,124.68	36.185873	-107.457396
8,188.0	90.90	139.50	5,598.0	-2,222.2	1,939.1	1,889,095.19	1,284,164.86	36.185741	-107.457258
8,250.0	90.40	137.80	5,597.3	-2,268.7	1,980.1	1,889,048.14	1,284,205.24	36.185613	-107.457119
8,313.0	89.60	137.90	5,597.3	-2,315.4	2,022.4	1,889,000.91	1,284,246.93	36.185485	-107.456976
8,375.0	90.50	138.90	5,597.3	-2,361.8	2,063.5	1,888,954.04	1,284,287.50	36.185357	-107.456836
8,438.0	90.30	137.80	5,596.8	-2,408.8	2,105.4	1,888,906.44	1,284,328.78	36.185228	-107.456694
8,501.0	90.30	136.30	5,596.5	-2,454.9	2,148.3	1,888,859.80	1,284,371.12	36.185101	-107.456549
8,564.0	90.30	136.00	5,596.2	-2,500.4	2,192.0	1,888,813.82	1,284,414.19	36.184976	-107.456401
8,627.0	90.10	136.20	5,595.9	-2,545.8	2,235.7	1,888,767.89	1,284,457.31	36.184852	-107.456253
8,690.0	90.40	138.00	5,595.7	-2,591.9	2,278.5	1,888,721.21	1,284,499.61	36.184725	-107.456108
8,753.0	90.00	137.30	5,595.4	-2,638.5	2,321.0	1,888,674.12	1,284,541.46	36.184597	-107.455964
8,816.0	90.80	136.80	5,595.0	-2,684.6	2,363.9	1,888,627.47	1,284,583.81	36.184470	-107.455819
8,879.0	89.10	136.40	5,595.1	-2,730.4	2,407.2	1,888,581.16	1,284,626.52	36.184345	-107.455672
8,942.0	90.20	136.30	5,595.4	-2,775.9	2,450.7	1,888,535.04	1,284,669.43	36.184219	-107.455525
9,005.0	91.00	136.00	5,594.8	-2,821.4	2,494.3	1,888,489.07	1,284,712.50	36.184095	-107.455377
9,068.0	89.30	135.10	5,594.6	-2,866.3	2,538.4	1,888,443.55	1,284,756.05	36.183971	-107.455227
9,131.0	89.80	134.90	5,595.1	-2,910.9	2,583.0	1,888,398.45	1,284,800.03	36.183849	-107.455076
9,194.0	90.80	135.10	5,594.8	-2,955.4	2,627.5	1,888,353.35	1,284,844.02	36.183726	-107.454925
9,257.0	91.80	136.40	5,593.4	-3,000.6	2,671.5	1,888,307.69	1,284,887.40	36.183602	-107.454777
9,320.0	92.40	138.30	5,591.0	-3,046.9	2,714.1	1,888,260.85	1,284,929.47	36.183475	-107.454632
9,383.0	91.50	138.30	5,588.9	-3,093.9	2,756.0	1,888,213.32	1,284,970.76	36.183346	-107.454490
9,446.0	90.50	139.10	5,587.8	-3,141.2	2,797.6	1,888,165.49	1,285,011.74	36.183216	-107.454349
9,509.0	89.90	138.00	5,587.6	-3,188.4	2,839.3	1,888,117.75	1,285,052.85	36.183086	-107.454208
9,572.0	90.50	138.40	5,587.4	-3,235.4	2,881.3	1,888,070.26	1,285,094.25	36.182957	-107.454066
9,636.0	90.00	136.10	5,587.1	-3,282.4	2,924.7	1,888,022.73	1,285,137.10	36.182828	-107.453919
9,699.0	90.70	135.20	5,586.7	-3,327.4	2,968.8	1,887,977.13	1,285,180.57	36.182705	-107.453769



Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M27-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M27-2306 01H
TVD Reference: WELL @ 7148.0ft (Original Well Elev)
MD Reference: WELL @ 7148.0ft (Original Well Elev)
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
9,762.0	90.00	135.20	5,586.3	-3,372.1	3,013.1	1,887,931.88	1,285,224.40	36.182582	-107.453619
9,825.0	89.70	135.30	5,586.5	-3,416.9	3,057.5	1,887,886.59	1,285,268.18	36.182459	-107.453469
9,887.0	90.40	135.50	5,586.4	-3,461.0	3,101.0	1,887,841.90	1,285,311.16	36.182338	-107.453321
9,951.0	90.30	137.10	5,586.0	-3,507.3	3,145.2	1,887,795.08	1,285,354.79	36.182210	-107.453171
10,014.0	89.80	137.70	5,586.0	-3,553.6	3,187.9	1,887,748.18	1,285,396.85	36.182083	-107.453027
10,076.0	89.70	137.80	5,586.3	-3,599.5	3,229.6	1,887,701.77	1,285,437.96	36.181957	-107.452886
10,139.0	90.40	137.70	5,586.2	-3,646.2	3,271.9	1,887,654.61	1,285,479.73	36.181829	-107.452742
10,202.0	90.10	138.90	5,585.9	-3,693.2	3,313.8	1,887,607.05	1,285,521.05	36.181700	-107.452600
10,265.0	90.20	138.00	5,585.8	-3,740.4	3,355.6	1,887,559.38	1,285,562.24	36.181570	-107.452459
10,328.0	90.00	137.50	5,585.6	-3,787.0	3,398.0	1,887,512.22	1,285,604.02	36.181442	-107.452315
10,391.0	90.70	136.70	5,585.3	-3,833.1	3,440.9	1,887,465.54	1,285,646.32	36.181315	-107.452170
10,454.0	90.00	137.60	5,584.9	-3,879.3	3,483.7	1,887,418.82	1,285,688.58	36.181188	-107.452025
10,517.0	90.20	136.10	5,584.8	-3,925.3	3,526.8	1,887,372.33	1,285,731.09	36.181062	-107.451879
10,580.0	89.80	134.70	5,584.8	-3,970.1	3,571.0	1,887,326.92	1,285,774.76	36.180939	-107.451729
10,644.0	90.20	133.60	5,584.8	-4,014.7	3,617.0	1,887,281.77	1,285,820.12	36.180816	-107.451573
10,707.0	90.30	133.40	5,584.5	-4,058.1	3,662.6	1,887,237.84	1,285,865.27	36.180697	-107.451419
10,770.0	90.10	133.70	5,584.3	-4,101.5	3,708.3	1,887,193.87	1,285,910.38	36.180578	-107.451264
10,833.0	90.20	133.30	5,584.1	-4,144.9	3,754.0	1,887,149.93	1,285,955.53	36.180459	-107.451109
10,896.0	90.00	134.40	5,584.0	-4,188.5	3,799.4	1,887,105.72	1,286,000.42	36.180339	-107.450955
10,959.0	90.70	137.20	5,583.6	-4,233.7	3,843.4	1,887,060.02	1,286,043.76	36.180215	-107.450806
11,022.0	90.40	137.60	5,583.0	-4,280.0	3,886.0	1,887,013.11	1,286,085.82	36.180088	-107.450662
11,085.0	89.70	139.20	5,583.0	-4,327.1	3,927.8	1,886,965.49	1,286,127.06	36.179958	-107.450520
11,148.0	90.40	139.80	5,582.9	-4,375.0	3,968.7	1,886,917.07	1,286,167.37	36.179827	-107.450382
11,211.0	90.40	139.00	5,582.5	-4,422.9	4,009.7	1,886,868.73	1,286,207.76	36.179695	-107.450243
11,274.0	90.80	138.20	5,581.8	-4,470.1	4,051.4	1,886,820.96	1,286,248.83	36.179565	-107.450102
11,337.0	90.60	138.90	5,581.0	-4,517.3	4,093.1	1,886,773.22	1,286,289.94	36.179436	-107.449960
11,400.0	89.40	138.30	5,581.0	-4,564.6	4,134.8	1,886,725.45	1,286,331.00	36.179306	-107.449819
11,463.0	90.20	137.80	5,581.2	-4,611.5	4,176.9	1,886,678.07	1,286,372.53	36.179177	-107.449677
11,526.0	90.50	138.00	5,580.9	-4,658.2	4,219.1	1,886,630.80	1,286,414.17	36.179049	-107.449534
11,589.0	90.40	138.00	5,580.4	-4,705.0	4,261.3	1,886,583.46	1,286,455.74	36.178920	-107.449391
11,652.0	90.20	137.90	5,580.0	-4,751.8	4,303.5	1,886,536.16	1,286,497.35	36.178792	-107.449248
11,715.0	89.80	135.90	5,580.0	-4,797.8	4,346.5	1,886,489.63	1,286,539.81	36.178665	-107.449102
11,779.0	89.80	136.40	5,580.3	-4,844.0	4,390.8	1,886,442.92	1,286,583.57	36.178538	-107.448952
11,842.0	90.20	136.60	5,580.3	-4,889.6	4,434.2	1,886,396.68	1,286,626.36	36.178413	-107.448805
11,905.0	90.50	137.40	5,579.9	-4,935.7	4,477.2	1,886,350.08	1,286,668.74	36.178286	-107.448659
11,968.0	90.90	138.50	5,579.1	-4,982.5	4,519.4	1,886,302.78	1,286,710.35	36.178158	-107.448516
12,031.0	90.80	139.00	5,578.2	-5,029.9	4,560.9	1,886,254.90	1,286,751.29	36.178028	-107.448376
12,094.0	90.60	139.50	5,577.4	-5,077.6	4,602.0	1,886,206.67	1,286,791.81	36.177897	-107.448237
12,157.0	89.70	139.20	5,577.2	-5,125.4	4,643.1	1,886,158.36	1,286,832.24	36.177765	-107.448097
12,220.0	90.30	139.40	5,577.2	-5,173.1	4,684.1	1,886,110.09	1,286,872.73	36.177634	-107.447958
12,283.0	91.50	139.80	5,576.2	-5,221.1	4,725.0	1,886,061.61	1,286,912.95	36.177502	-107.447820
12,346.0	90.30	139.00	5,575.3	-5,268.9	4,766.0	1,886,013.27	1,286,953.34	36.177371	-107.447681
12,408.0	90.80	139.60	5,574.7	-5,315.9	4,806.4	1,885,965.77	1,286,993.18	36.177242	-107.447544
12,471.0	90.90	140.00	5,573.7	-5,364.1	4,847.0	1,885,917.15	1,287,033.23	36.177110	-107.447407
12,535.0	89.40	139.30	5,573.6	-5,412.8	4,888.5	1,885,867.86	1,287,074.05	36.176976	-107.447266
12,598.0	89.70	138.00	5,574.1	-5,460.1	4,930.1	1,885,820.05	1,287,115.08	36.176846	-107.447125
12,660.0	89.40	136.00	5,574.5	-5,505.5	4,972.4	1,885,774.19	1,287,156.79	36.176721	-107.446982
12,724.0	90.30	134.10	5,574.7	-5,550.8	5,017.6	1,885,728.34	1,287,201.43	36.176597	-107.446829
12,786.0	91.10	134.50	5,574.0	-5,594.0	5,062.0	1,885,684.49	1,287,245.25	36.176478	-107.446679
12,849.0	90.00	133.60	5,573.3	-5,637.8	5,107.2	1,885,640.12	1,287,289.98	36.176357	-107.446525
12,912.0	90.00	131.90	5,573.3	-5,680.6	5,153.5	1,885,596.78	1,287,335.70	36.176240	-107.446368
12,975.0	90.00	132.70	5,573.3	-5,723.0	5,200.1	1,885,553.81	1,287,381.76	36.176123	-107.446211
13,038.0	90.90	134.70	5,572.9	-5,766.5	5,245.6	1,885,509.72	1,287,426.76	36.176004	-107.446056
13,101.0	90.40	136.70	5,572.1	-5,811.6	5,289.6	1,885,464.09	1,287,470.18	36.175880	-107.445907
13,164.0	90.40	136.30	5,571.7	-5,857.3	5,333.0	1,885,417.85	1,287,512.97	36.175755	-107.445760