

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) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION

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

Submit one copy to appropriate
District Office

☒ AMENDED REPORT

☒ AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21205	² Pool Code 13379	³ Pool Name COUNSELORS GALLUP-DAKOTA
⁴ Property Code 313305	⁵ Property Name GALLO CANYON UNIT M26-2306	⁶ Well Number 01H
⁷ GRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁹ Elevation 6936.6'

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	26	23N	6W		75'	SOUTH	200'	WEST	SANDOVAL

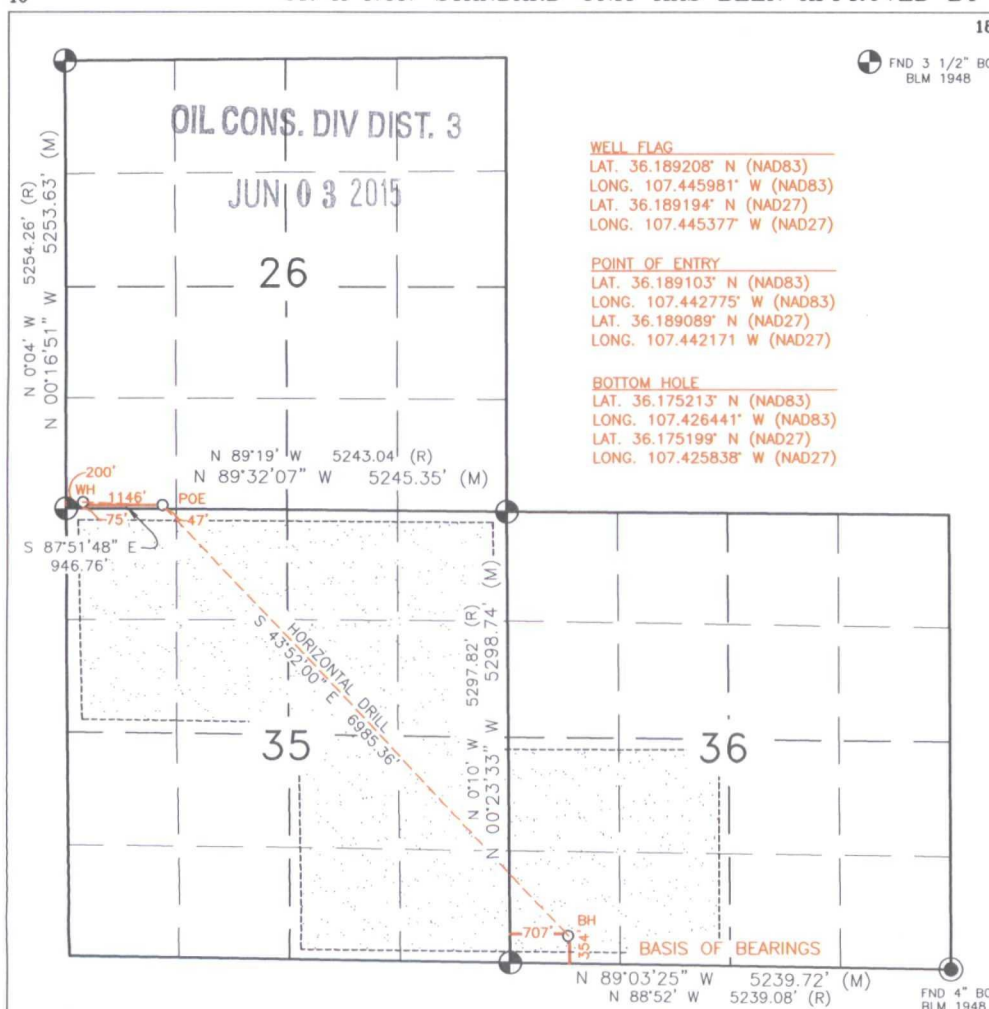
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	23N	6W		354'	SOUTH	707'	WEST	SANDOVAL

¹² Dedicated Acres 5,120 Acres Sec. 22-26, 34-36 - Undivided Unit Penetrated Spacing Units; N/2 & SE Sec. 35; SW Sec. 36 - 640 Acres	¹³ Joint or Infill PROJECT AREA	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

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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

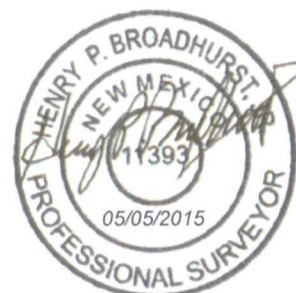
SURVEYOR CERTIFICATION

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:



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State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION

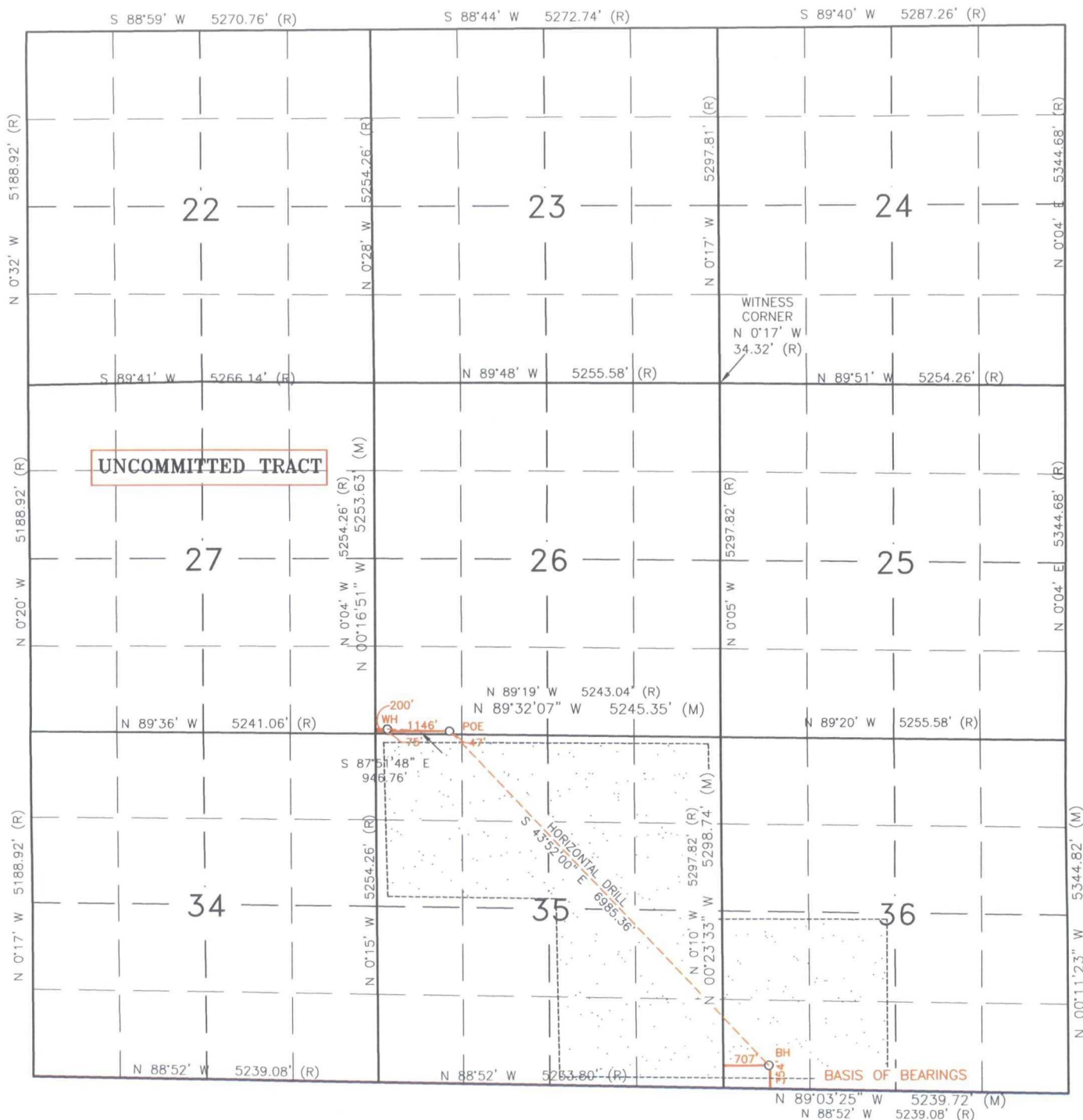
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Santa Fe, NM 87505

ENCANA OIL & GAS (USA) INC.
GALLO CANYON UNIT M26-2306 #01H

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☒ AMENDED REPORT

☒ AS DRILLED

**WELL FLAG**

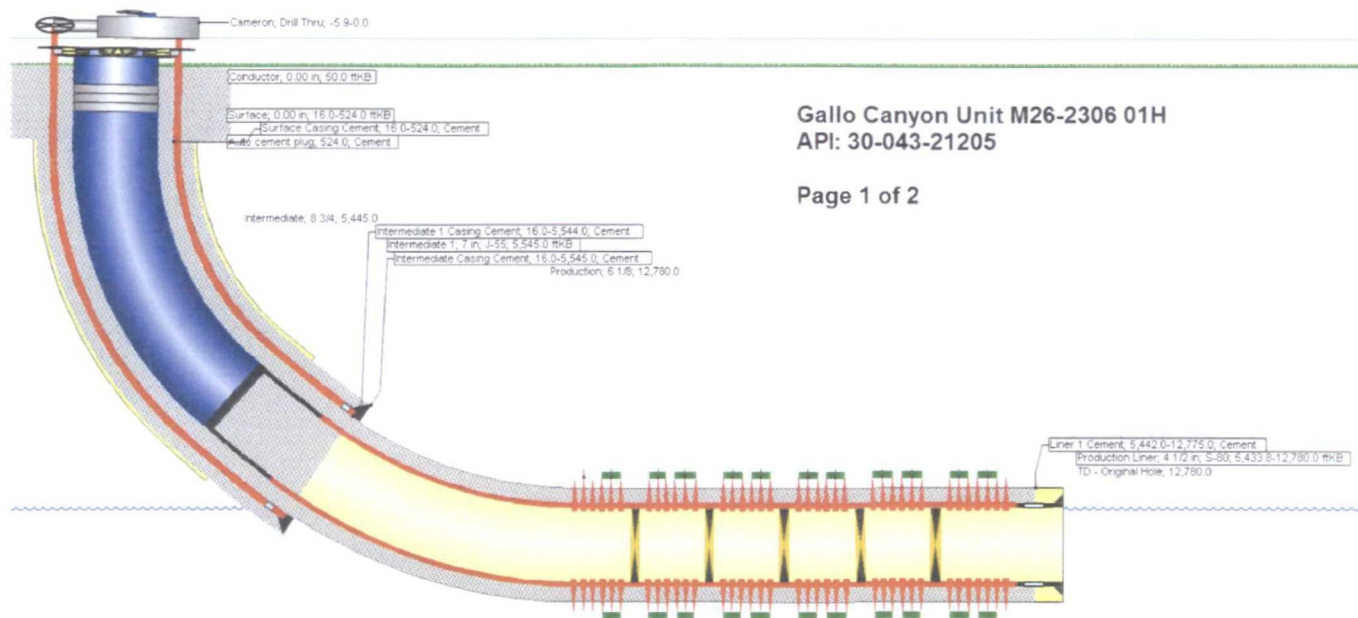
LAT. 36.189208° N (NAD83)
LONG. 107.445981° W (NAD83)
LAT. 36.189194° N (NAD27)
LONG. 107.445377° W (NAD27)

POINT OF ENTRY

LAT. 36.189103° N (NAD83)
LONG. 107.442775° W (NAD83)
LAT. 36.189089° N (NAD27)
LONG. 107.442171° W (NAD27)

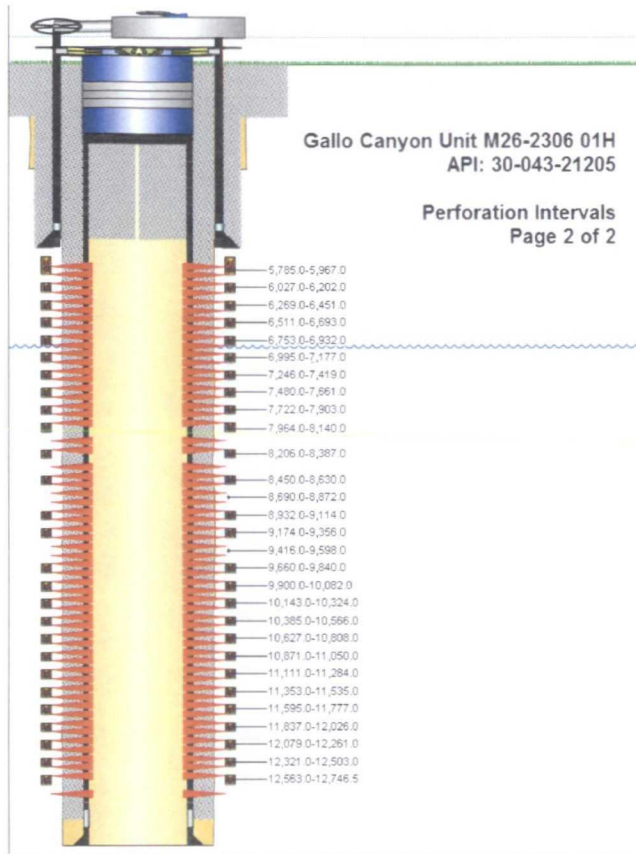
BOTTOM HOLE

LAT. 36.175213° N (NAD83)
LONG. 107.426441° W (NAD83)
LAT. 36.175199° N (NAD27)
LONG. 107.425838° W (NAD27)



OIL CONS. DIV DIST. 3

JUN 03 2015



DEVIATION SURVEYS
Gallo Canyon Unit M26-2306 01H
30-043-21205

MD (Feet)	Inclination (Degree)
750'	0.80
1066'	1.30
1382'	0.80
1699'	0.40
2010'	0.90
2317'	0.20
2624'	0.20
2932'	0.10
3239'	4.70
3556'	10.10

OIL CONS. DIV DIST. 3

JUN 03 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

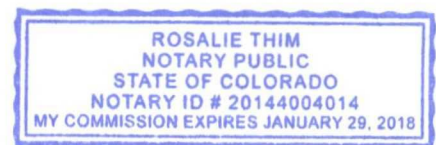
ACKNOWLEDGMENT

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





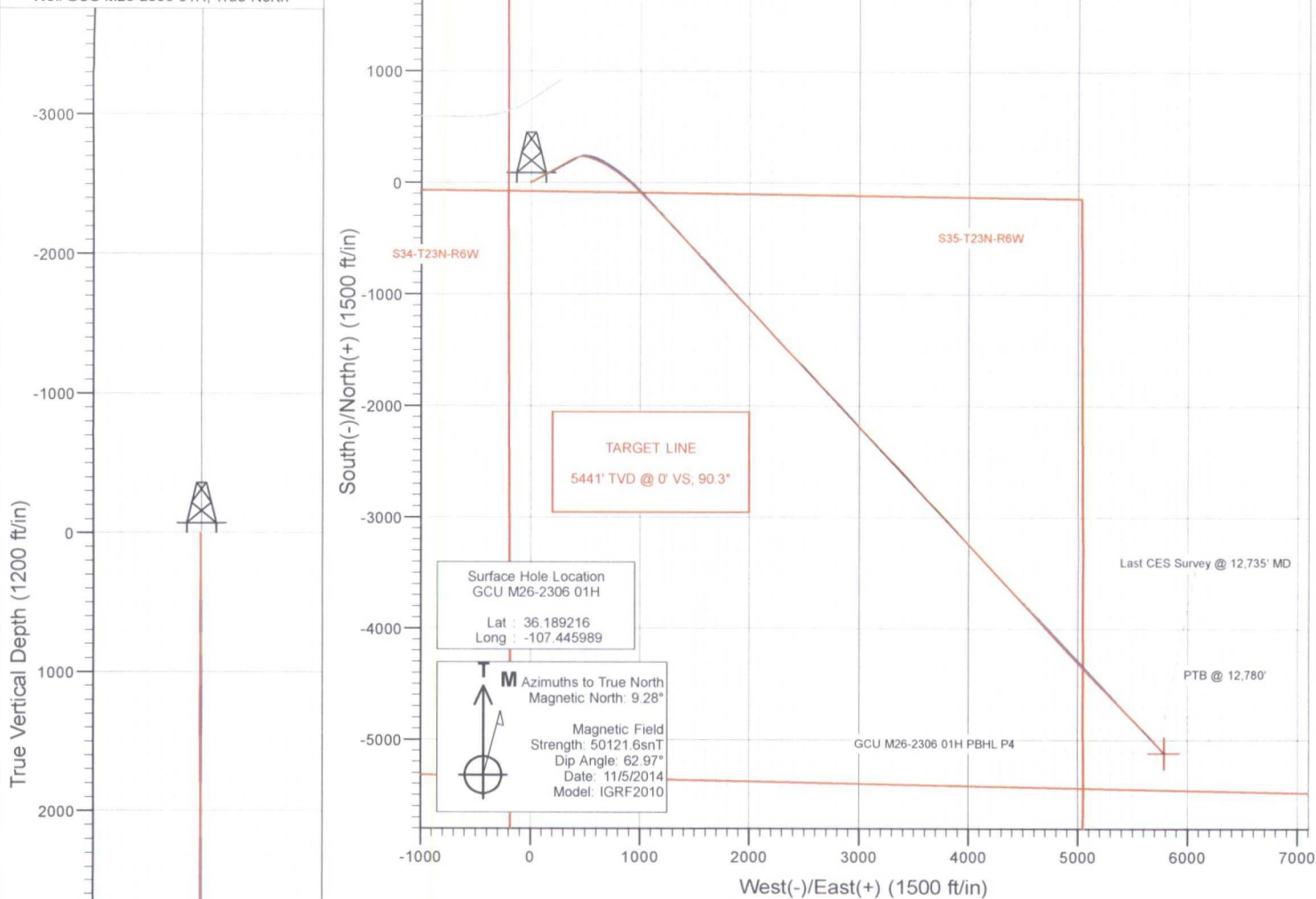
Project: Sandoval County, NM
 Site: GCU
 Well: GCU M26-2306 01H
 Wellbore: Hz
 Design: FINAL



FINAL
 GCU M26-2306 01H
 335055 145410; LR
 WELL @ 6954.0ft (A950)
 Ground Elevation @ 6938.0
 North American Datum 1983
 Well GCU M26-2306 01H, True North

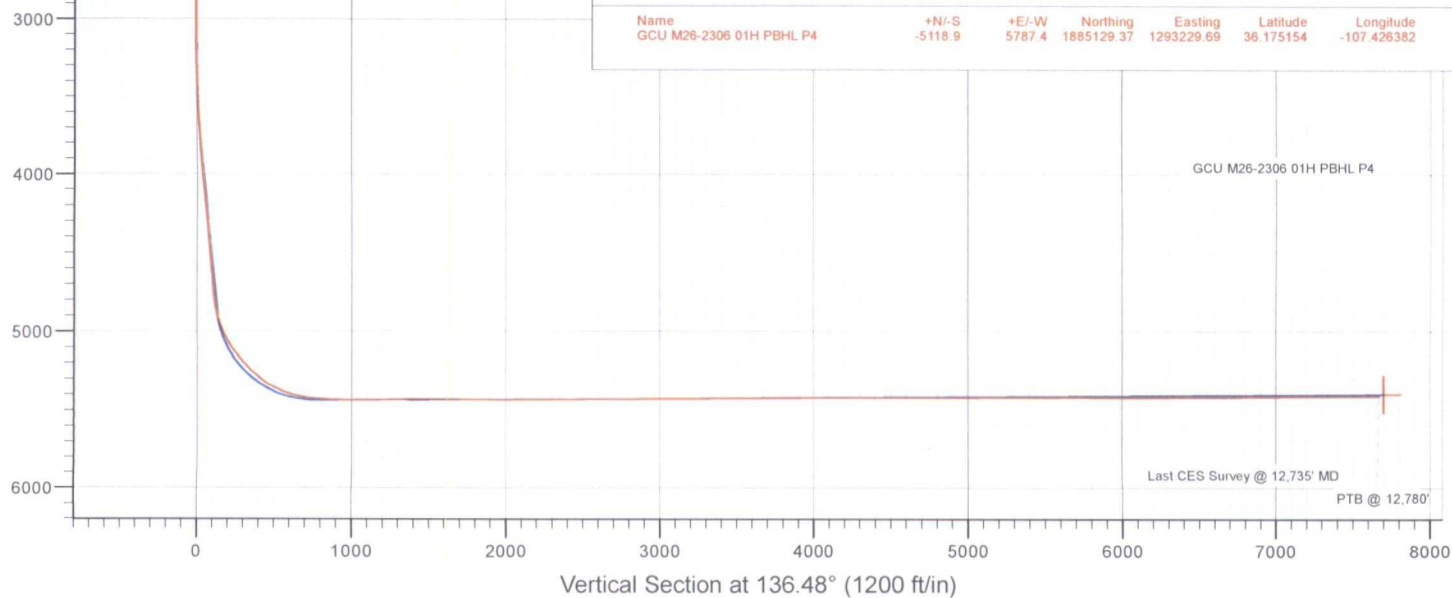
OIL CONS. DIV DIST. 3

JUN 03 2015



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
GCU M26-2306 01H PBHL P4	-5118.9	5787.4	1885129.37	1293229.69	36.175154	-107.426382



JUN 03 2015

Survey Report

Company: EnCana Oil & Gas (USA) Inc
 Project: Sandoval County, NM
 Site: GCU
 Well: GCU M26-2306 01H
 Wellbore: Hz
 Design: FINAL

Local Co-ordinate Reference: Well GCU M26-2306 01H
 TVD Reference: WELL @ 6954.0ft (A950)
 MD Reference: WELL @ 6954.0ft (A950)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: USA EDM 5000 Multi Users DB

Project Sandoval County, NM

Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Central Zone

System Datum: Mean Sea Level

Site GCU

Site Position: Northing: 1,888,889.10 ft Latitude: 36.185100
 From: Lat/Long Easting: 1,281,990.06 ft Longitude: -107.464617
 Position Uncertainty: 0.0 ft Slot Radius: 13.200 in Grid Convergence: -0.72 °

Well GCU M26-2306 01H

Well Position +N/-S 0.0 ft Northing: 1,890,319.20 ft Latitude: 36.189216
 +E/-W 0.0 ft Easting: 1,287,505.84 ft Longitude: -107.445989
 Position Uncertainty 0.0 ft Wellhead Elevation: ft Ground Level: 6,938.0 ft

Wellbore Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/5/2014	9.28	62.97	50,122

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	136.48

Survey Program Date 11/17/2014

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
560.0	12,780.0	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	
560.0	1.20	272.80	560.0	0.3	-5.9	-4.2	0.21	0.21	
623.0	0.70	95.90	623.0	0.3	-6.1	-4.4	3.01	-0.79	
687.0	1.20	84.70	686.9	0.3	-5.1	-3.7	0.83	0.78	
750.0	0.80	74.10	749.9	0.5	-4.0	-3.1	0.70	-0.63	
813.0	0.70	54.50	812.9	0.8	-3.3	-2.8	0.43	-0.16	
877.0	0.70	37.80	876.9	1.4	-2.7	-2.8	0.32	0.00	
940.0	0.70	14.00	939.9	2.0	-2.4	-3.1	0.46	0.00	
1,003.0	0.80	8.10	1,002.9	2.8	-2.2	-3.6	0.20	0.16	
1,066.0	1.30	335.90	1,065.9	3.9	-2.4	-4.5	1.20	0.79	
1,129.0	0.60	9.30	1,128.9	4.9	-2.7	-5.4	1.37	-1.11	
1,193.0	0.70	48.00	1,192.9	5.5	-2.3	-5.6	0.69	0.16	
1,256.0	0.80	69.30	1,255.9	5.9	-1.6	-5.4	0.47	0.16	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M26-2306 01H
TVD Reference: WELL @ 6954.0ft (A950)
MD Reference: WELL @ 6954.0ft (A950)
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
1,319.0	0.90	59.40	1,318.9	6.3	-0.8	-5.1	0.28	0.16	
1,382.0	0.80	45.90	1,381.9	6.9	-0.1	-5.0	0.35	-0.16	
1,446.0	0.60	87.40	1,445.9	7.2	0.6	-4.8	0.83	-0.31	
1,509.0	0.30	155.20	1,508.9	7.1	1.0	-4.5	0.89	-0.48	
1,572.0	0.30	112.50	1,571.9	6.9	1.2	-4.1	0.35	0.00	
1,635.0	0.40	103.80	1,634.9	6.7	1.6	-3.8	0.18	0.16	
1,699.0	0.40	83.70	1,698.9	6.7	2.0	-3.5	0.22	0.00	
1,762.0	0.50	202.80	1,761.9	6.5	2.1	-3.2	1.23	0.16	
1,825.0	0.90	205.50	1,824.9	5.8	1.8	-3.0	0.64	0.63	
1,887.0	0.60	200.00	1,886.9	5.0	1.5	-2.6	0.50	-0.48	
1,948.0	0.80	187.40	1,947.9	4.3	1.3	-2.2	0.41	0.33	
2,010.0	0.90	188.10	2,009.8	3.4	1.2	-1.6	0.16	0.16	
2,071.0	0.70	279.30	2,070.8	3.0	0.8	-1.6	1.89	-0.33	
2,133.0	0.50	314.60	2,132.8	3.2	0.2	-2.2	0.66	-0.32	
2,194.0	0.60	271.60	2,193.8	3.4	-0.3	-2.7	0.68	0.16	
2,256.0	1.10	282.10	2,255.8	3.6	-1.2	-3.4	0.84	0.81	
2,317.0	0.20	191.70	2,316.8	3.6	-1.8	-3.9	1.84	-1.48	
2,379.0	0.30	168.20	2,378.8	3.3	-1.8	-3.7	0.23	0.16	
2,440.0	0.20	99.30	2,439.8	3.2	-1.7	-3.4	0.48	-0.16	
2,502.0	0.10	208.20	2,501.8	3.1	-1.6	-3.3	0.40	-0.16	
2,563.0	0.20	114.60	2,562.8	3.0	-1.5	-3.2	0.38	0.16	
2,624.0	0.20	37.30	2,623.8	3.0	-1.3	-3.1	0.41	0.00	
2,686.0	0.30	62.50	2,685.8	3.2	-1.1	-3.1	0.24	0.16	
2,747.0	0.10	279.90	2,746.8	3.3	-1.1	-3.1	0.63	-0.33	
2,809.0	0.10	64.50	2,808.8	3.3	-1.1	-3.1	0.31	0.00	
2,870.0	0.10	172.10	2,869.8	3.3	-1.0	-3.1	0.26	0.00	
2,932.0	0.10	279.30	2,931.8	3.2	-1.0	-3.1	0.26	0.00	
2,994.0	0.10	91.70	2,993.8	3.3	-1.0	-3.1	0.32	0.00	
3,055.0	0.90	44.00	3,054.8	3.6	-0.7	-3.1	1.37	1.31	
3,116.0	2.60	63.30	3,115.8	4.6	0.9	-2.7	2.91	2.79	
3,178.0	3.50	66.60	3,177.7	5.9	3.9	-1.6	1.48	1.45	
3,239.0	4.70	64.50	3,238.5	7.8	7.9	-0.2	1.98	1.97	
3,303.0	5.60	70.50	3,302.3	9.9	13.2	1.9	1.64	1.41	
3,366.0	6.90	66.90	3,364.9	12.4	19.6	4.4	2.15	2.06	
3,429.0	7.80	64.70	3,427.4	15.8	26.9	7.1	1.50	1.43	
3,493.0	8.80	60.70	3,490.7	20.0	35.1	9.7	1.80	1.56	
3,556.0	10.10	61.60	3,552.9	25.0	44.2	12.3	2.08	2.06	
3,619.0	11.10	60.50	3,614.8	30.6	54.3	15.2	1.62	1.59	
3,682.0	12.40	64.70	3,676.5	36.5	65.7	18.8	2.47	2.06	
3,745.0	14.20	63.90	3,737.8	42.8	78.7	23.2	2.87	2.86	
3,809.0	15.60	61.10	3,799.6	50.4	93.3	27.7	2.46	2.19	
3,872.0	16.90	60.40	3,860.1	59.0	108.7	32.1	2.09	2.06	
3,935.0	18.20	60.50	3,920.2	68.4	125.2	36.7	2.06	2.06	
3,998.0	18.60	63.00	3,980.0	77.8	142.8	41.9	1.40	0.63	
4,061.0	19.90	62.60	4,039.4	87.3	161.2	47.7	2.07	2.06	
4,124.0	21.10	61.20	4,098.4	97.7	180.7	53.6	2.06	1.90	
4,188.0	20.10	59.40	4,158.4	108.8	200.2	59.0	1.85	-1.56	
4,251.0	21.20	61.70	4,217.3	119.7	219.6	64.4	2.17	1.75	
4,314.0	21.80	62.50	4,275.9	130.5	240.0	70.6	1.06	0.95	
4,377.0	20.90	59.90	4,334.6	141.6	260.1	76.4	2.07	-1.43	
4,441.0	19.50	60.30	4,394.7	152.6	279.3	81.6	2.20	-2.19	
4,504.0	18.80	63.30	4,454.2	162.4	297.5	87.1	1.92	-1.11	
4,567.0	19.80	63.00	4,513.6	171.8	316.0	93.1	1.60	1.59	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M26-2306 01H
Wellbore: Hz
Design: FINAL

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MD Reference: WELL @ 6954.0ft (A950)
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
4,630.0	19.50	61.60	4,573.0	181.6	334.8	98.8	0.89	-0.48	
4,694.0	18.30	61.80	4,633.5	191.4	353.0	104.3	1.88	-1.87	
4,757.0	18.30	62.20	4,693.3	200.7	370.5	109.6	0.20	0.00	
4,820.0	18.60	62.90	4,753.1	209.9	388.2	115.1	0.59	0.48	
4,852.0	18.60	62.90	4,783.4	214.6	397.3	118.0	0.00	0.00	
4,883.0	20.00	63.90	4,812.7	219.2	406.4	121.0	4.64	4.52	
4,915.0	22.50	67.60	4,842.5	223.9	417.0	124.8	8.86	7.81	
4,946.0	24.40	73.10	4,870.9	228.0	428.6	129.8	9.34	6.13	
4,978.0	26.20	78.90	4,899.9	231.3	441.9	136.6	9.57	5.62	
5,010.0	27.30	84.00	4,928.5	233.4	456.1	144.8	7.95	3.44	
5,041.0	28.60	89.00	4,955.8	234.3	470.6	154.2	8.64	4.19	
5,073.0	30.10	93.30	4,983.7	234.0	486.3	165.2	8.08	4.69	
5,105.0	31.60	97.50	5,011.2	232.4	502.6	177.6	8.20	4.69	
5,136.0	33.50	102.30	5,037.3	229.5	519.0	191.0	10.34	6.13	
5,168.0	35.00	105.30	5,063.8	225.2	536.5	206.1	7.06	4.69	
5,199.0	36.00	108.70	5,089.0	220.0	553.7	221.8	7.14	3.23	
5,231.0	37.80	111.20	5,114.6	213.4	571.8	239.0	7.32	5.62	
5,263.0	39.80	113.10	5,139.6	205.8	590.3	257.3	7.27	6.25	
5,294.0	41.90	114.80	5,163.0	197.6	608.9	276.0	7.66	6.77	
5,326.0	43.60	116.20	5,186.5	188.2	628.5	296.3	6.09	5.31	
5,358.0	45.00	117.40	5,209.4	178.2	648.4	317.3	5.10	4.37	
5,389.0	46.50	118.60	5,231.0	167.7	668.0	338.4	5.58	4.84	
5,421.0	49.00	119.10	5,252.6	156.3	688.8	360.9	7.90	7.81	
5,453.0	51.90	120.40	5,272.9	144.1	710.2	384.6	9.59	9.06	
5,484.0	53.70	122.10	5,291.7	131.2	731.3	408.4	7.27	5.81	
5,516.0	55.40	122.70	5,310.2	117.3	753.3	433.7	5.53	5.31	
5,547.0	57.80	124.20	5,327.3	103.0	774.9	458.9	8.73	7.74	
5,577.0	60.70	125.70	5,342.6	88.2	796.0	484.2	10.58	9.67	
5,601.0	63.50	126.80	5,353.9	75.7	813.1	505.0	12.35	11.67	
5,633.0	65.40	126.40	5,367.7	58.5	836.3	533.5	6.04	5.94	
5,665.0	68.10	128.40	5,380.3	40.6	859.6	562.5	10.21	8.44	
5,696.0	71.50	130.60	5,391.0	22.1	882.1	591.4	12.83	10.97	
5,728.0	74.70	131.20	5,400.3	2.1	905.2	621.8	10.16	10.00	
5,760.0	76.50	132.50	5,408.3	-18.6	928.3	652.7	6.86	5.62	
5,791.0	78.70	133.90	5,414.9	-39.3	950.4	683.0	8.36	7.10	
5,823.0	80.90	134.40	5,420.6	-61.3	973.0	714.4	7.04	6.87	
5,854.0	83.00	134.40	5,424.9	-82.7	994.9	745.1	6.77	6.77	
5,918.0	86.40	135.70	5,430.8	-127.8	1,039.9	808.8	5.68	5.31	
5,981.0	89.20	134.80	5,433.3	-172.5	1,084.2	871.7	4.67	4.44	
6,044.0	89.70	135.50	5,433.9	-217.2	1,128.7	934.7	1.37	0.79	
6,107.0	90.90	136.60	5,433.5	-262.6	1,172.4	997.7	2.58	1.90	
6,170.0	90.00	134.80	5,433.0	-307.6	1,216.4	1,060.7	3.19	-1.43	
6,234.0	90.00	134.20	5,433.0	-352.5	1,262.0	1,124.6	0.94	0.00	
6,297.0	90.80	136.20	5,432.6	-397.2	1,306.4	1,187.6	3.42	1.27	
6,360.0	90.80	135.50	5,431.7	-442.4	1,350.3	1,250.6	1.11	0.00	
6,423.0	89.70	137.00	5,431.4	-487.9	1,393.9	1,313.6	2.95	-1.75	
6,487.0	90.80	138.00	5,431.2	-535.1	1,437.1	1,377.6	2.32	1.72	
6,550.0	91.00	137.60	5,430.2	-581.8	1,479.4	1,440.6	0.71	0.32	
6,613.0	88.90	136.70	5,430.2	-627.9	1,522.2	1,503.6	3.63	-3.33	
6,676.0	90.60	138.10	5,430.5	-674.3	1,564.9	1,566.5	3.50	2.70	
6,740.0	90.70	137.00	5,429.8	-721.5	1,608.1	1,630.5	1.73	0.16	
6,803.0	88.70	136.40	5,430.1	-767.4	1,651.3	1,693.5	3.31	-3.17	
6,866.0	89.10	136.40	5,431.3	-813.0	1,694.7	1,756.5	0.63	0.63	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M26-2306 01H
TVD Reference: WELL @ 6954.0ft (A950)
MD Reference: WELL @ 6954.0ft (A950)
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
6,929.0	89.30	136.60	5,432.2	-858.7	1,738.1	1,819.5	0.45	0.32	
6,993.0	89.60	136.10	5,432.8	-905.0	1,782.2	1,883.5	0.91	0.47	
7,056.0	90.20	135.90	5,432.9	-950.3	1,826.0	1,946.5	1.00	0.95	
7,119.0	90.30	135.30	5,432.6	-995.3	1,870.1	2,009.5	0.97	0.16	
7,182.0	91.00	135.10	5,431.9	-1,040.0	1,914.5	2,072.5	1.16	1.11	
7,245.0	90.40	135.80	5,431.2	-1,084.9	1,958.7	2,135.5	1.46	-0.95	
7,309.0	91.20	135.80	5,430.3	-1,130.8	2,003.3	2,199.4	1.25	1.25	
7,372.0	90.90	137.40	5,429.1	-1,176.5	2,046.6	2,262.4	2.58	-0.48	
7,435.0	90.80	137.20	5,428.2	-1,222.8	2,089.3	2,325.4	0.35	-0.16	
7,498.0	90.10	137.30	5,427.7	-1,269.1	2,132.0	2,388.4	1.12	-1.11	
7,561.0	90.10	137.20	5,427.6	-1,315.4	2,174.8	2,451.4	0.16	0.00	
7,625.0	90.40	136.80	5,427.3	-1,362.2	2,218.5	2,515.4	0.78	0.47	
7,688.0	90.90	136.60	5,426.6	-1,408.0	2,261.7	2,578.4	0.85	0.79	
7,751.0	90.00	136.00	5,426.1	-1,453.6	2,305.2	2,641.4	1.72	-1.43	
7,814.0	90.40	135.00	5,425.9	-1,498.5	2,349.3	2,704.4	1.71	0.63	
7,878.0	90.40	135.20	5,425.4	-1,543.8	2,394.5	2,768.4	0.31	0.00	
7,941.0	90.80	134.40	5,424.8	-1,588.2	2,439.2	2,831.3	1.42	0.63	
8,002.0	90.00	135.70	5,424.3	-1,631.4	2,482.3	2,892.3	2.50	-1.31	
8,064.0	90.10	135.80	5,424.3	-1,675.8	2,525.6	2,954.3	0.23	0.16	
8,125.0	89.80	136.20	5,424.3	-1,719.7	2,567.9	3,015.3	0.82	-0.49	
8,187.0	90.10	138.10	5,424.4	-1,765.1	2,610.1	3,077.3	3.10	0.48	
8,248.0	90.30	137.10	5,424.2	-1,810.2	2,651.2	3,138.3	1.67	0.33	
8,310.0	90.00	135.60	5,424.0	-1,855.0	2,694.0	3,200.3	2.47	-0.48	
8,371.0	90.70	136.40	5,423.6	-1,898.9	2,736.4	3,261.3	1.74	1.15	
8,432.0	90.80	136.00	5,422.8	-1,942.9	2,778.6	3,322.3	0.68	0.16	
8,494.0	90.20	136.50	5,422.3	-1,987.7	2,821.5	3,384.3	1.26	-0.97	
8,555.0	90.40	136.00	5,422.0	-2,031.8	2,863.7	3,445.3	0.88	0.33	
8,617.0	90.30	137.30	5,421.6	-2,076.9	2,906.2	3,507.3	2.10	-0.16	
8,678.0	90.50	137.30	5,421.2	-2,121.7	2,947.6	3,568.2	0.33	0.33	
8,740.0	91.10	137.60	5,420.3	-2,167.4	2,989.5	3,630.2	1.08	0.97	
8,801.0	88.40	134.60	5,420.6	-2,211.3	3,031.8	3,691.2	6.62	-4.43	
8,863.0	88.70	136.20	5,422.1	-2,255.4	3,075.3	3,753.2	2.62	0.48	
8,924.0	90.10	136.40	5,422.8	-2,299.5	3,117.5	3,814.2	2.32	2.30	
8,986.0	90.40	136.30	5,422.5	-2,344.4	3,160.3	3,876.2	0.51	0.48	
9,047.0	91.10	136.10	5,421.7	-2,388.4	3,202.5	3,937.2	1.19	1.15	
9,109.0	90.10	136.60	5,421.1	-2,433.3	3,245.3	3,999.2	1.80	-1.61	
9,170.0	90.30	136.50	5,420.9	-2,477.6	3,287.2	4,060.2	0.37	0.33	
9,232.0	90.70	135.80	5,420.3	-2,522.3	3,330.2	4,122.2	1.30	0.65	
9,293.0	89.60	134.50	5,420.2	-2,565.5	3,373.2	4,183.1	2.79	-1.80	
9,355.0	89.70	136.00	5,420.5	-2,609.5	3,416.8	4,245.1	2.42	0.16	
9,418.0	89.70	138.50	5,420.9	-2,655.8	3,459.6	4,308.1	3.97	0.00	
9,481.0	90.10	138.40	5,421.0	-2,702.9	3,501.4	4,371.1	0.65	0.63	
9,544.0	90.70	137.40	5,420.5	-2,749.7	3,543.6	4,434.1	1.85	0.95	
9,607.0	90.10	136.50	5,420.1	-2,795.7	3,586.6	4,497.1	1.72	-0.95	
9,671.0	90.40	136.60	5,419.8	-2,842.2	3,630.6	4,561.1	0.49	0.47	
9,734.0	90.70	135.70	5,419.2	-2,887.6	3,674.3	4,624.0	1.51	0.48	
9,797.0	89.20	135.30	5,419.3	-2,932.6	3,718.4	4,687.0	2.46	-2.38	
9,860.0	89.20	136.70	5,420.1	-2,977.9	3,762.2	4,750.0	2.22	0.00	
9,923.0	89.70	137.30	5,420.7	-3,023.9	3,805.2	4,813.0	1.24	0.79	
9,987.0	90.40	135.80	5,420.7	-3,070.4	3,849.2	4,877.0	2.59	1.09	
10,050.0	89.80	138.00	5,420.6	-3,116.4	3,892.2	4,940.0	3.62	-0.95	
10,113.0	90.10	136.90	5,420.6	-3,162.8	3,934.8	5,003.0	1.81	0.48	
10,176.0	90.50	136.30	5,420.3	-3,208.6	3,978.1	5,066.0	1.14	0.63	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M26-2306 01H
TVD Reference: WELL @ 6954.0ft (A950)
MD Reference: WELL @ 6954.0ft (A950)
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
10,240.0	90.10	137.90	5,420.0	-3,255.5	4,021.7	5,130.0	2.58	-0.62	
10,303.0	90.70	138.00	5,419.5	-3,302.2	4,063.9	5,193.0	0.97	0.95	
10,366.0	89.40	137.90	5,419.5	-3,349.0	4,106.1	5,256.0	2.07	-2.06	
10,429.0	90.00	136.70	5,419.8	-3,395.3	4,148.8	5,318.9	2.13	0.95	
10,493.0	90.20	136.50	5,419.7	-3,441.8	4,192.8	5,382.9	0.44	0.31	
10,556.0	90.50	135.80	5,419.3	-3,487.3	4,236.4	5,445.9	1.21	0.48	
10,619.0	91.10	135.20	5,418.4	-3,532.2	4,280.5	5,508.9	1.35	0.95	
10,682.0	90.60	136.50	5,417.5	-3,577.4	4,324.4	5,571.9	2.21	-0.79	
10,745.0	89.00	137.80	5,417.7	-3,623.6	4,367.3	5,634.9	3.27	-2.54	
10,809.0	89.40	137.10	5,418.6	-3,670.7	4,410.5	5,698.9	1.26	0.62	
10,872.0	89.90	137.00	5,419.0	-3,716.8	4,453.5	5,761.9	0.81	0.79	
10,935.0	90.50	136.10	5,418.8	-3,762.6	4,496.8	5,824.9	1.72	0.95	
10,998.0	90.30	135.90	5,418.3	-3,807.9	4,540.6	5,887.9	0.45	-0.32	
11,062.0	89.10	138.10	5,418.7	-3,854.7	4,584.2	5,951.9	3.92	-1.87	
11,125.0	89.80	137.60	5,419.3	-3,901.4	4,626.5	6,014.8	1.37	1.11	
11,188.0	90.30	137.20	5,419.2	-3,947.8	4,669.1	6,077.8	1.02	0.79	
11,251.0	90.80	137.30	5,418.6	-3,994.0	4,711.9	6,140.8	0.81	0.79	
11,314.0	90.00	137.30	5,418.2	-4,040.3	4,754.6	6,203.8	1.27	-1.27	
11,378.0	90.30	137.30	5,418.0	-4,087.3	4,798.0	6,267.8	0.47	0.47	
11,441.0	91.10	136.90	5,417.2	-4,133.5	4,840.9	6,330.8	1.42	1.27	
11,504.0	89.20	136.80	5,417.1	-4,179.5	4,884.0	6,393.8	3.02	-3.02	
11,567.0	89.70	136.50	5,417.7	-4,225.3	4,927.2	6,456.8	0.93	0.79	
11,630.0	90.60	135.80	5,417.5	-4,270.7	4,970.9	6,519.8	1.81	1.43	
11,694.0	90.30	137.20	5,417.0	-4,317.1	5,014.9	6,583.8	2.24	-0.47	
11,757.0	90.80	136.60	5,416.4	-4,363.1	5,058.0	6,646.8	1.24	0.79	
11,820.0	91.30	136.10	5,415.2	-4,408.7	5,101.4	6,709.8	1.12	0.79	
11,883.0	90.80	135.90	5,414.1	-4,454.0	5,145.2	6,772.8	0.85	-0.79	
11,946.0	89.30	136.10	5,414.0	-4,499.3	5,188.9	6,835.8	2.40	-2.38	
12,010.0	89.90	135.10	5,414.5	-4,545.0	5,233.7	6,899.7	1.82	0.94	
12,073.0	90.50	134.70	5,414.3	-4,589.5	5,278.4	6,962.7	1.14	0.95	
12,136.0	90.10	136.60	5,413.9	-4,634.6	5,322.4	7,025.7	3.08	-0.63	
12,199.0	90.80	136.30	5,413.4	-4,680.2	5,365.8	7,088.7	1.21	1.11	
12,262.0	89.50	136.00	5,413.3	-4,725.6	5,409.4	7,151.7	2.12	-2.06	
12,326.0	90.00	135.70	5,413.6	-4,771.6	5,454.0	7,215.7	0.91	0.78	
12,389.0	90.80	134.70	5,413.1	-4,816.3	5,498.4	7,278.7	2.03	1.27	
12,452.0	90.00	136.00	5,412.7	-4,861.1	5,542.7	7,341.7	2.42	-1.27	
12,515.0	90.20	135.90	5,412.6	-4,906.4	5,586.5	7,404.7	0.35	0.32	
12,578.0	90.80	134.90	5,412.0	-4,951.2	5,630.7	7,467.7	1.85	0.95	
12,642.0	89.60	137.00	5,411.8	-4,997.2	5,675.2	7,531.6	3.78	-1.87	
12,705.0	89.90	136.50	5,412.1	-5,043.1	5,718.4	7,594.6	0.93	0.48	
12,735.0	90.00	136.30	5,412.1	-5,064.8	5,739.1	7,624.6	0.75	0.33	Last CES Survey @ 12,735' MD
12,780.0	90.00	136.30	5,412.1	-5,097.4	5,770.2	7,669.6	0.00	0.00	PTB @ 12,780'

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M26-2306 01H
TVD Reference: WELL @ 6954.0ft (A950)
MD Reference: WELL @ 6954.0ft (A950)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
GCU M26-2306 01H PB	0.00	0.00	5,426.1	-5,118.9	5,787.4	1,885,129.37	1,293,229.69	36.175154	-107.426382
- survey misses target center by 30.9ft at 12780.0ft MD (5412.1 TVD, -5097.4 N, 5770.2 E)									
- Point									
GCU M26-2306 01H PB	0.00	0.00	5,400.7	-5,118.9	5,787.4	1,885,129.37	1,293,229.69	36.175154	-107.426382
- survey misses target center by 29.8ft at 12780.0ft MD (5412.1 TVD, -5097.4 N, 5770.2 E)									
- Point									
GCU M26-2306 01H PO	0.00	0.00	5,436.9	-97.6	1,019.6	1,890,209.09	1,288,524.19	36.188948	-107.442534
- survey misses target center by 11.2ft at 5883.0ft MD (5428.1 TVD, -103.0 N, 1015.4 E)									
- Point									
GCU M26-2306 01H PB	0.00	0.00	5,404.1	-5,118.9	5,787.4	1,885,129.37	1,293,229.69	36.175154	-107.426382
- survey misses target center by 28.7ft at 12780.0ft MD (5412.1 TVD, -5097.4 N, 5770.2 E)									
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
12,735.0	5,412.1	-5,064.8	5,739.1	Last CES Survey @ 12,735' MD
12,780.0	5,412.1	-5,097.4	5,770.2	PTB @ 12,780'

Checked By: _____ Approved By: _____ Date: _____

EnCana Oil & Gas (USA) Inc

Sandoval County, NM

GCU

GCU M26-2306 01H

Hz

Survey: Survey #1

Survey Report - Geographic

17 November, 2014

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6954.0ft (A950)
Site:	GCU	MD Reference:	WELL @ 6954.0ft (A950)
Well:	GCU M26-2306 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 M26-2306 01H			
Well Position	+N/-S	0.0 ft	Northing:	1,890,319.20 ft
	+E/-W	0.0 ft	Easting:	1,287,505.84 ft
Position Uncertainty	0.0 ft		Wellhead Elevation:	ft
			Ground Level:	6,938.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/5/2014	9.28	62.97	50,122

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	136.48

Survey Program	Date	11/17/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
560.0	12,780.0	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	1,890,319.20	1,287,505.84	36.189216	-107.445989
560.0	1.20	272.80	560.0	0.3	-5.9	1,890,319.56	1,287,499.98	36.189217	-107.446009
623.0	0.70	95.90	623.0	0.3	-6.1	1,890,319.55	1,287,499.71	36.189217	-107.446010
687.0	1.20	84.70	686.9	0.3	-5.1	1,890,319.56	1,287,500.77	36.189217	-107.446006
750.0	0.80	74.10	749.9	0.5	-4.0	1,890,319.73	1,287,501.85	36.189217	-107.446003
813.0	0.70	54.50	812.9	0.8	-3.3	1,890,320.07	1,287,502.59	36.189218	-107.446000
877.0	0.70	37.80	876.9	1.4	-2.7	1,890,320.59	1,287,503.15	36.189220	-107.445998
940.0	0.70	14.00	939.9	2.0	-2.4	1,890,321.27	1,287,503.49	36.189222	-107.445997
1,003.0	0.80	8.10	1,002.9	2.8	-2.2	1,890,322.08	1,287,503.65	36.189224	-107.445997
1,066.0	1.30	335.90	1,065.9	3.9	-2.4	1,890,323.17	1,287,503.44	36.189227	-107.445998
1,129.0	0.60	9.30	1,128.9	4.9	-2.7	1,890,324.15	1,287,503.21	36.189230	-107.445998
1,193.0	0.70	48.00	1,192.9	5.5	-2.3	1,890,324.73	1,287,503.56	36.189231	-107.445997

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6954.0ft (A950)
Site:	GCU	MD Reference:	WELL @ 6954.0ft (A950)
Well:	GCU M26-2306 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)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
1,256.0	0.80	69.30	1,255.9	5.9	-1.6	1,890,325.14	1,287,504.27	36.189232	-107.445995
1,319.0	0.90	59.40	1,318.9	6.3	-0.8	1,890,325.54	1,287,505.11	36.189233	-107.445992
1,382.0	0.80	45.90	1,381.9	6.9	-0.1	1,890,326.08	1,287,505.86	36.189235	-107.445989
1,446.0	0.60	87.40	1,445.9	7.2	0.6	1,890,326.40	1,287,506.52	36.189236	-107.445987
1,509.0	0.30	155.20	1,508.9	7.1	1.0	1,890,326.26	1,287,506.91	36.189236	-107.445986
1,572.0	0.30	112.50	1,571.9	6.9	1.2	1,890,326.05	1,287,507.13	36.189235	-107.445985
1,635.0	0.40	103.80	1,634.9	6.7	1.6	1,890,325.93	1,287,507.50	36.189235	-107.445984
1,699.0	0.40	83.70	1,698.9	6.7	2.0	1,890,325.89	1,287,507.94	36.189235	-107.445982
1,762.0	0.50	202.80	1,761.9	6.5	2.1	1,890,325.66	1,287,508.04	36.189234	-107.445982
1,825.0	0.90	205.50	1,824.9	5.8	1.8	1,890,324.97	1,287,507.72	36.189232	-107.445983
1,887.0	0.60	200.00	1,886.9	5.0	1.5	1,890,324.23	1,287,507.39	36.189230	-107.445984
1,948.0	0.80	187.40	1,947.9	4.3	1.3	1,890,323.51	1,287,507.21	36.189228	-107.445985
2,010.0	0.90	188.10	2,009.8	3.4	1.2	1,890,322.60	1,287,507.08	36.189225	-107.445985
2,071.0	0.70	279.30	2,070.8	3.0	0.8	1,890,322.19	1,287,506.64	36.189224	-107.445987
2,133.0	0.50	314.60	2,132.8	3.2	0.2	1,890,322.45	1,287,506.07	36.189225	-107.445989
2,194.0	0.60	271.60	2,193.8	3.4	-0.3	1,890,322.65	1,287,505.57	36.189226	-107.445990
2,256.0	1.10	282.10	2,255.8	3.6	-1.2	1,890,322.79	1,287,504.66	36.189226	-107.445993
2,317.0	0.20	191.70	2,316.8	3.6	-1.8	1,890,322.82	1,287,504.07	36.189226	-107.445995
2,379.0	0.30	168.20	2,378.8	3.3	-1.8	1,890,322.55	1,287,504.08	36.189225	-107.445995
2,440.0	0.20	99.30	2,439.8	3.2	-1.7	1,890,322.38	1,287,504.21	36.189225	-107.445995
2,502.0	0.10	208.20	2,501.8	3.1	-1.6	1,890,322.31	1,287,504.29	36.189225	-107.445995
2,563.0	0.20	114.60	2,562.8	3.0	-1.5	1,890,322.22	1,287,504.36	36.189224	-107.445994
2,624.0	0.20	37.30	2,623.8	3.0	-1.3	1,890,322.26	1,287,504.53	36.189224	-107.445994
2,686.0	0.30	62.50	2,685.8	3.2	-1.1	1,890,322.42	1,287,504.74	36.189225	-107.445993
2,747.0	0.10	279.90	2,746.8	3.3	-1.1	1,890,322.50	1,287,504.83	36.189225	-107.445993
2,809.0	0.10	64.50	2,808.8	3.3	-1.1	1,890,322.53	1,287,504.82	36.189225	-107.445993
2,870.0	0.10	172.10	2,869.8	3.3	-1.0	1,890,322.50	1,287,504.88	36.189225	-107.445993
2,932.0	0.10	279.30	2,931.8	3.2	-1.0	1,890,322.46	1,287,504.83	36.189225	-107.445993
2,994.0	0.10	91.70	2,993.8	3.3	-1.0	1,890,322.46	1,287,504.83	36.189225	-107.445993
3,055.0	0.90	44.00	3,054.8	3.6	-0.7	1,890,322.80	1,287,505.22	36.189226	-107.445992
3,116.0	2.60	63.30	3,115.8	4.6	0.9	1,890,323.75	1,287,506.80	36.189229	-107.445986
3,178.0	3.50	66.60	3,177.7	5.9	3.9	1,890,325.09	1,287,509.81	36.189232	-107.445976
3,239.0	4.70	64.50	3,238.5	7.8	7.9	1,890,326.86	1,287,513.80	36.189237	-107.445963
3,303.0	5.60	70.50	3,302.3	9.9	13.2	1,890,328.97	1,287,519.14	36.189243	-107.445945
3,366.0	6.90	66.90	3,364.9	12.4	19.6	1,890,331.40	1,287,525.55	36.189250	-107.445923
3,429.0	7.80	64.70	3,427.4	15.8	26.9	1,890,334.62	1,287,532.93	36.189259	-107.445898
3,493.0	8.80	60.70	3,490.7	20.0	35.1	1,890,338.77	1,287,541.18	36.189271	-107.445870
3,556.0	10.10	61.60	3,552.9	25.0	44.2	1,890,343.64	1,287,550.30	36.189285	-107.445840
3,619.0	11.10	60.50	3,614.8	30.6	54.3	1,890,349.13	1,287,560.51	36.189300	-107.445805
3,682.0	12.40	64.70	3,676.5	36.5	65.7	1,890,354.87	1,287,571.98	36.189316	-107.445767
3,745.0	14.20	63.90	3,737.8	42.8	78.7	1,890,361.00	1,287,585.11	36.189334	-107.445722
3,809.0	15.60	61.10	3,799.6	50.4	93.3	1,890,368.43	1,287,599.78	36.189354	-107.445673
3,872.0	16.90	60.40	3,860.1	59.0	108.7	1,890,376.86	1,287,615.27	36.189378	-107.445621
3,935.0	18.20	60.50	3,920.2	68.4	125.2	1,890,386.02	1,287,631.91	36.189404	-107.445565
3,998.0	18.60	63.00	3,980.0	77.8	142.8	1,890,395.21	1,287,649.54	36.189430	-107.445506
4,061.0	19.90	62.60	4,039.4	87.3	161.2	1,890,404.48	1,287,668.13	36.189456	-107.445443
4,124.0	21.10	61.20	4,098.4	97.7	180.7	1,890,414.64	1,287,687.71	36.189484	-107.445377
4,188.0	20.10	59.40	4,158.4	108.8	200.2	1,890,425.54	1,287,707.41	36.189515	-107.445311
4,251.0	21.20	61.70	4,217.3	119.7	219.6	1,890,436.21	1,287,726.89	36.189545	-107.445245
4,314.0	21.80	62.50	4,275.9	130.5	240.0	1,890,446.76	1,287,747.43	36.189575	-107.445176
4,377.0	20.90	59.90	4,334.6	141.6	260.1	1,890,457.55	1,287,767.66	36.189605	-107.445108
4,441.0	19.50	60.30	4,394.7	152.6	279.3	1,890,468.33	1,287,786.95	36.189635	-107.445043
4,504.0	18.80	63.30	4,454.2	162.4	297.5	1,890,477.88	1,287,805.27	36.189662	-107.444981
4,567.0	19.80	63.00	4,513.6	171.8	316.0	1,890,487.06	1,287,823.96	36.189688	-107.444918
4,630.0	19.50	61.60	4,573.0	181.6	334.8	1,890,496.67	1,287,842.84	36.189715	-107.444855

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M26-2306 01H
TVD Reference: WELL @ 6954.0ft (A950)
MD Reference: WELL @ 6954.0ft (A950)
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
4,694.0	18.30	61.80	4,633.5	191.4	353.0	1,890,506.27	1,287,861.21	36.189742	-107.444793
4,757.0	18.30	62.20	4,693.3	200.7	370.5	1,890,515.34	1,287,878.79	36.189767	-107.444734
4,820.0	18.60	62.90	4,753.1	209.9	388.2	1,890,524.32	1,287,896.60	36.189793	-107.444674
4,852.0	18.60	62.90	4,783.4	214.6	397.3	1,890,528.85	1,287,905.74	36.189805	-107.444643
4,883.0	20.00	63.90	4,812.7	219.2	406.4	1,890,533.32	1,287,914.96	36.189818	-107.444612
4,915.0	22.50	67.60	4,842.5	223.9	417.0	1,890,537.94	1,287,925.59	36.189831	-107.444576
4,946.0	24.40	73.10	4,870.9	228.0	428.6	1,890,541.91	1,287,937.26	36.189842	-107.444537
4,978.0	26.20	78.90	4,899.9	231.3	441.9	1,890,545.03	1,287,950.56	36.189851	-107.444492
5,010.0	27.30	84.00	4,928.5	233.4	456.1	1,890,546.98	1,287,964.81	36.189857	-107.444444
5,041.0	28.60	89.00	4,955.8	234.3	470.6	1,890,547.68	1,287,979.31	36.189860	-107.444395
5,073.0	30.10	93.30	4,983.7	234.0	486.3	1,890,547.16	1,287,994.98	36.189859	-107.444341
5,105.0	31.60	97.50	5,011.2	232.4	502.6	1,890,545.40	1,288,011.29	36.189854	-107.444286
5,136.0	33.50	102.30	5,037.3	229.5	519.0	1,890,542.31	1,288,027.66	36.189847	-107.444231
5,168.0	35.00	105.30	5,063.8	225.2	536.5	1,890,537.80	1,288,045.09	36.189835	-107.444171
5,199.0	36.00	108.70	5,089.0	220.0	553.7	1,890,532.32	1,288,062.23	36.189820	-107.444113
5,231.0	37.80	111.20	5,114.6	213.4	571.8	1,890,525.53	1,288,080.20	36.189802	-107.444052
5,263.0	39.80	113.10	5,139.6	205.8	590.3	1,890,517.74	1,288,098.68	36.189781	-107.443989
5,294.0	41.90	114.80	5,163.0	197.6	608.9	1,890,509.27	1,288,117.10	36.189759	-107.443926
5,326.0	43.60	116.20	5,186.5	188.2	628.5	1,890,499.68	1,288,136.58	36.189733	-107.443860
5,358.0	45.00	117.40	5,209.4	178.2	648.4	1,890,489.36	1,288,156.40	36.189705	-107.443792
5,389.0	46.50	118.60	5,231.0	167.7	668.0	1,890,478.69	1,288,175.88	36.189677	-107.443726
5,421.0	49.00	119.10	5,252.6	156.3	688.8	1,890,467.00	1,288,196.48	36.189645	-107.443655
5,453.0	51.90	120.40	5,272.9	144.1	710.2	1,890,454.49	1,288,217.74	36.189612	-107.443583
5,484.0	53.70	122.10	5,291.7	131.2	731.3	1,890,441.42	1,288,238.69	36.189577	-107.443511
5,516.0	55.40	122.70	5,310.2	117.3	753.3	1,890,427.18	1,288,260.52	36.189538	-107.443437
5,547.0	57.80	124.20	5,327.3	103.0	774.9	1,890,412.65	1,288,281.93	36.189499	-107.443364
5,577.0	60.70	125.70	5,342.6	88.2	796.0	1,890,397.62	1,288,302.88	36.189458	-107.443292
5,601.0	63.50	126.80	5,353.9	75.7	813.1	1,890,384.87	1,288,319.82	36.189424	-107.443234
5,633.0	65.40	126.40	5,367.7	58.5	836.3	1,890,367.37	1,288,342.79	36.189377	-107.443156
5,665.0	68.10	128.40	5,380.3	40.6	859.6	1,890,349.22	1,288,365.91	36.189328	-107.443076
5,696.0	71.50	130.60	5,391.0	22.1	882.1	1,890,330.44	1,288,388.12	36.189277	-107.443000
5,728.0	74.70	131.20	5,400.3	2.1	905.2	1,890,310.11	1,288,411.01	36.189222	-107.442922
5,760.0	76.50	132.50	5,408.3	-18.6	928.3	1,890,289.15	1,288,433.84	36.189165	-107.442844
5,791.0	78.70	133.90	5,414.9	-39.3	950.4	1,890,268.16	1,288,455.65	36.189108	-107.442769
5,823.0	80.90	134.40	5,420.6	-61.3	973.0	1,890,245.94	1,288,477.98	36.189048	-107.442692
5,854.0	83.00	134.40	5,424.9	-82.7	994.9	1,890,224.20	1,288,499.64	36.188989	-107.442618
5,918.0	86.40	135.70	5,430.8	-127.8	1,039.9	1,890,178.55	1,288,544.09	36.188865	-107.442466
5,981.0	89.20	134.80	5,433.3	-172.5	1,084.2	1,890,133.31	1,288,587.86	36.188742	-107.442315
6,044.0	89.70	135.50	5,433.9	-217.2	1,128.7	1,890,088.10	1,288,631.73	36.188619	-107.442165
6,107.0	90.90	136.60	5,433.5	-262.6	1,172.4	1,890,042.21	1,288,674.89	36.188495	-107.442017
6,170.0	90.00	134.80	5,433.0	-307.6	1,216.4	1,889,996.59	1,288,718.33	36.188371	-107.441868
6,234.0	90.00	134.20	5,433.0	-352.5	1,262.0	1,889,951.17	1,288,763.42	36.188248	-107.441713
6,297.0	90.80	136.20	5,432.6	-397.2	1,306.4	1,889,905.93	1,288,807.25	36.188125	-107.441563
6,360.0	90.80	135.50	5,431.7	-442.4	1,350.3	1,889,860.19	1,288,850.57	36.188001	-107.441414
6,423.0	89.70	137.00	5,431.4	-487.9	1,393.9	1,889,814.15	1,288,893.57	36.187876	-107.441266
6,487.0	90.80	138.00	5,431.2	-535.1	1,437.1	1,889,766.44	1,288,936.22	36.187746	-107.441120
6,550.0	91.00	137.60	5,430.2	-581.8	1,479.4	1,889,719.25	1,288,977.95	36.187618	-107.440976
6,613.0	88.90	136.70	5,430.2	-627.9	1,522.2	1,889,672.55	1,289,020.22	36.187491	-107.440831
6,676.0	90.60	138.10	5,430.5	-674.3	1,564.9	1,889,625.66	1,289,062.28	36.187364	-107.440687
6,740.0	90.70	137.00	5,429.8	-721.5	1,608.1	1,889,577.91	1,289,104.89	36.187234	-107.440540
6,803.0	88.70	136.40	5,430.1	-767.4	1,651.3	1,889,531.54	1,289,147.52	36.187108	-107.440394
6,866.0	89.10	136.40	5,431.3	-813.0	1,694.7	1,889,485.39	1,289,190.40	36.186983	-107.440247
6,929.0	89.30	136.60	5,432.2	-858.7	1,738.1	1,889,439.17	1,289,233.19	36.186857	-107.440100
6,993.0	89.60	136.10	5,432.8	-905.0	1,782.2	1,889,392.32	1,289,276.79	36.186730	-107.439950
7,056.0	90.20	135.90	5,432.9	-950.3	1,826.0	1,889,346.47	1,289,319.99	36.186606	-107.439802

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M26-2306 01H
TVD Reference: WELL @ 6954.0ft (A950)
MD Reference: WELL @ 6954.0ft (A950)
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
7,119.0	90.30	135.30	5,432.6	-995.3	1,870.1	1,889,300.91	1,289,363.51	36.186482	-107.439653
7,182.0	91.00	135.10	5,431.9	-1,040.0	1,914.5	1,889,255.67	1,289,407.35	36.186359	-107.439502
7,245.0	90.40	135.80	5,431.2	-1,084.9	1,958.7	1,889,210.24	1,289,450.98	36.186236	-107.439353
7,309.0	91.20	135.80	5,430.3	-1,130.8	2,003.3	1,889,163.81	1,289,495.03	36.186110	-107.439201
7,372.0	90.90	137.40	5,429.1	-1,176.5	2,046.6	1,889,117.52	1,289,537.74	36.185984	-107.439055
7,435.0	90.80	137.20	5,428.2	-1,222.8	2,089.3	1,889,070.70	1,289,579.88	36.185857	-107.438910
7,498.0	90.10	137.30	5,427.7	-1,269.1	2,132.0	1,889,023.92	1,289,622.07	36.185730	-107.438765
7,561.0	90.10	137.20	5,427.6	-1,315.4	2,174.8	1,888,977.13	1,289,664.26	36.185603	-107.438620
7,625.0	90.40	136.80	5,427.3	-1,362.2	2,218.5	1,888,929.79	1,289,707.33	36.185474	-107.438472
7,688.0	90.90	136.60	5,426.6	-1,408.0	2,261.7	1,888,883.41	1,289,749.97	36.185348	-107.438326
7,751.0	90.00	136.00	5,426.1	-1,453.6	2,305.2	1,888,837.34	1,289,792.93	36.185223	-107.438179
7,814.0	90.40	135.00	5,425.9	-1,498.5	2,349.3	1,888,791.86	1,289,836.52	36.185100	-107.438029
7,878.0	90.40	135.20	5,425.4	-1,543.8	2,394.5	1,888,745.98	1,289,881.14	36.184975	-107.437876
7,941.0	90.80	134.40	5,424.8	-1,588.2	2,439.2	1,888,701.04	1,289,925.29	36.184853	-107.437724
8,002.0	90.00	135.70	5,424.3	-1,631.4	2,482.3	1,888,657.34	1,289,967.84	36.184735	-107.437578
8,064.0	90.10	135.80	5,424.3	-1,675.8	2,525.6	1,888,612.40	1,290,010.56	36.184613	-107.437432
8,125.0	89.80	136.20	5,424.3	-1,719.7	2,567.9	1,888,568.00	1,290,052.39	36.184492	-107.437288
8,187.0	90.10	138.10	5,424.4	-1,765.1	2,610.1	1,888,522.03	1,290,093.99	36.184367	-107.437146
8,248.0	90.30	137.10	5,424.2	-1,810.2	2,651.2	1,888,476.49	1,290,134.56	36.184244	-107.437006
8,310.0	90.00	135.60	5,424.0	-1,855.0	2,694.0	1,888,431.10	1,290,176.80	36.184120	-107.436861
8,371.0	90.70	136.40	5,423.6	-1,898.9	2,736.4	1,888,386.70	1,290,218.63	36.184000	-107.436718
8,432.0	90.80	136.00	5,422.8	-1,942.9	2,778.6	1,888,342.16	1,290,260.30	36.183879	-107.436575
8,494.0	90.20	136.50	5,422.3	-1,987.7	2,821.5	1,888,296.85	1,290,302.61	36.183756	-107.436429
8,555.0	90.40	136.00	5,422.0	-2,031.8	2,863.7	1,888,252.27	1,290,344.25	36.183635	-107.436286
8,617.0	90.30	137.30	5,421.6	-2,076.9	2,906.2	1,888,206.67	1,290,386.25	36.183511	-107.436142
8,678.0	90.50	137.30	5,421.2	-2,121.7	2,947.6	1,888,161.33	1,290,427.06	36.183388	-107.436002
8,740.0	91.10	137.60	5,420.3	-2,167.4	2,989.5	1,888,115.15	1,290,468.42	36.183262	-107.435860
8,801.0	88.40	134.60	5,420.6	-2,211.3	3,031.8	1,888,070.69	1,290,510.16	36.183142	-107.435717
8,863.0	88.70	136.20	5,422.1	-2,255.4	3,075.3	1,888,026.03	1,290,553.13	36.183020	-107.435569
8,924.0	90.10	136.40	5,422.8	-2,299.5	3,117.5	1,887,981.41	1,290,594.72	36.182899	-107.435427
8,986.0	90.40	136.30	5,422.5	-2,344.4	3,160.3	1,887,936.03	1,290,636.96	36.182776	-107.435282
9,047.0	91.10	136.10	5,421.7	-2,388.4	3,202.5	1,887,891.49	1,290,678.63	36.182655	-107.435139
9,109.0	90.10	136.60	5,421.1	-2,433.3	3,245.3	1,887,846.11	1,290,720.87	36.182532	-107.434994
9,170.0	90.30	136.50	5,420.9	-2,477.6	3,287.2	1,887,801.31	1,290,762.27	36.182410	-107.434852
9,232.0	90.70	135.80	5,420.3	-2,522.3	3,330.2	1,887,756.07	1,290,804.67	36.182287	-107.434706
9,293.0	89.60	134.50	5,420.2	-2,565.5	3,373.2	1,887,712.30	1,290,847.15	36.182169	-107.434560
9,355.0	89.70	136.00	5,420.5	-2,609.5	3,416.8	1,887,667.74	1,290,890.25	36.182048	-107.434412
9,418.0	89.70	138.50	5,420.9	-2,655.8	3,459.6	1,887,620.95	1,290,932.44	36.181921	-107.434268
9,481.0	90.10	138.40	5,421.0	-2,702.9	3,501.4	1,887,573.30	1,290,973.64	36.181791	-107.434126
9,544.0	90.70	137.40	5,420.5	-2,749.7	3,543.6	1,887,526.04	1,291,015.29	36.181663	-107.433983
9,607.0	90.10	136.50	5,420.1	-2,795.7	3,586.6	1,887,479.47	1,291,057.73	36.181536	-107.433837
9,671.0	90.40	136.60	5,419.8	-2,842.2	3,630.6	1,887,432.47	1,291,101.17	36.181409	-107.433688
9,734.0	90.70	135.70	5,419.2	-2,887.6	3,674.3	1,887,386.51	1,291,144.24	36.181284	-107.433540
9,797.0	89.20	135.30	5,419.3	-2,932.6	3,718.4	1,887,341.03	1,291,187.84	36.181160	-107.433391
9,860.0	89.20	136.70	5,420.1	-2,977.9	3,762.2	1,887,295.18	1,291,231.04	36.181036	-107.433242
9,923.0	89.70	137.30	5,420.7	-3,023.9	3,805.2	1,887,248.59	1,291,273.43	36.180909	-107.433097
9,987.0	90.40	135.80	5,420.7	-3,070.4	3,849.2	1,887,201.59	1,291,316.87	36.180782	-107.432948
10,050.0	89.80	138.00	5,420.6	-3,116.4	3,892.2	1,887,155.06	1,291,359.34	36.180655	-107.432802
10,113.0	90.10	136.90	5,420.6	-3,162.8	3,934.8	1,887,108.13	1,291,401.37	36.180528	-107.432658
10,176.0	90.50	136.30	5,420.3	-3,208.6	3,978.1	1,887,061.83	1,291,444.09	36.180402	-107.432511
10,240.0	90.10	137.90	5,420.0	-3,255.5	4,021.7	1,887,014.41	1,291,487.07	36.180273	-107.432363
10,303.0	90.70	138.00	5,419.5	-3,302.2	4,063.9	1,886,967.12	1,291,528.68	36.180145	-107.432211
10,366.0	89.40	137.90	5,419.5	-3,349.0	4,106.1	1,886,919.82	1,291,570.30	36.180016	-107.432078
10,429.0	90.00	136.70	5,419.8	-3,395.3	4,148.8	1,886,873.00	1,291,612.45	36.179889	-107.431933
10,493.0	90.20	136.50	5,419.7	-3,441.8	4,192.8	1,886,825.96	1,291,655.84	36.179761	-107.431784

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: GCU
Well: GCU M26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU M26-2306 01H
TVD Reference: WELL @ 6954.0ft (A950)
MD Reference: WELL @ 6954.0ft (A950)
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
10,556.0	90.50	135.80	5,419.3	-3,487.3	4,236.4	1,886,779.99	1,291,698.92	36.179637	-107.431636
10,619.0	91.10	135.20	5,418.4	-3,532.2	4,280.5	1,886,734.52	1,291,742.52	36.179513	-107.431486
10,682.0	90.60	136.50	5,417.5	-3,577.4	4,324.4	1,886,688.79	1,291,785.84	36.179389	-107.431338
10,745.0	89.00	137.80	5,417.7	-3,623.6	4,367.3	1,886,642.08	1,291,828.11	36.179262	-107.431193
10,809.0	89.40	137.10	5,418.6	-3,670.7	4,410.5	1,886,594.40	1,291,870.80	36.179133	-107.431046
10,872.0	89.90	137.00	5,419.0	-3,716.8	4,453.5	1,886,547.77	1,291,913.15	36.179006	-107.430901
10,935.0	90.50	136.10	5,418.8	-3,762.6	4,496.8	1,886,501.50	1,291,955.91	36.178880	-107.430754
10,998.0	90.30	135.90	5,418.3	-3,807.9	4,540.6	1,886,455.65	1,291,999.11	36.178756	-107.430606
11,062.0	89.10	138.10	5,418.7	-3,854.7	4,584.2	1,886,408.31	1,292,042.17	36.178627	-107.430458
11,125.0	89.80	137.60	5,419.3	-3,901.4	4,626.5	1,886,361.09	1,292,083.87	36.178499	-107.430315
11,188.0	90.30	137.20	5,419.2	-3,947.8	4,669.1	1,886,314.19	1,292,125.94	36.178371	-107.430170
11,251.0	90.80	137.30	5,418.6	-3,994.0	4,711.9	1,886,267.41	1,292,168.12	36.178244	-107.430025
11,314.0	90.00	137.30	5,418.2	-4,040.3	4,754.6	1,886,220.59	1,292,210.27	36.178117	-107.429881
11,378.0	90.30	137.30	5,418.0	-4,087.3	4,798.0	1,886,173.02	1,292,253.09	36.177988	-107.429734
11,441.0	91.10	136.90	5,417.2	-4,133.5	4,840.9	1,886,126.35	1,292,295.40	36.177861	-107.429588
11,504.0	89.20	136.80	5,417.1	-4,179.5	4,884.0	1,886,079.86	1,292,337.92	36.177735	-107.429442
11,567.0	89.70	136.50	5,417.7	-4,225.3	4,927.2	1,886,033.52	1,292,380.59	36.177609	-107.429296
11,630.0	90.60	135.80	5,417.5	-4,270.7	4,970.9	1,885,987.56	1,292,423.67	36.177484	-107.429148
11,694.0	90.30	137.20	5,417.0	-4,317.1	5,014.9	1,885,940.60	1,292,467.15	36.177357	-107.428999
11,757.0	90.80	136.60	5,416.4	-4,363.1	5,058.0	1,885,894.07	1,292,509.62	36.177230	-107.428853
11,820.0	91.30	136.10	5,415.2	-4,408.7	5,101.4	1,885,847.96	1,292,552.54	36.177105	-107.428706
11,883.0	90.80	135.90	5,414.1	-4,454.0	5,145.2	1,885,802.11	1,292,595.73	36.176981	-107.428558
11,946.0	89.30	136.10	5,414.0	-4,499.3	5,188.9	1,885,756.26	1,292,638.93	36.176856	-107.428409
12,010.0	89.90	135.10	5,414.5	-4,545.0	5,233.7	1,885,709.99	1,292,683.14	36.176731	-107.428258
12,073.0	90.50	134.70	5,414.3	-4,589.5	5,278.4	1,885,664.97	1,292,727.21	36.176608	-107.428107
12,136.0	90.10	136.60	5,413.9	-4,634.6	5,322.4	1,885,619.39	1,292,770.69	36.176485	-107.427957
12,199.0	90.80	136.30	5,413.4	-4,680.2	5,365.8	1,885,573.20	1,292,813.53	36.176359	-107.427810
12,262.0	89.50	136.00	5,413.3	-4,725.6	5,409.4	1,885,527.23	1,292,856.61	36.176234	-107.427662
12,326.0	90.00	135.70	5,413.6	-4,771.6	5,454.0	1,885,480.76	1,292,900.62	36.176108	-107.427511
12,389.0	90.80	134.70	5,413.1	-4,816.3	5,498.4	1,885,435.52	1,292,944.45	36.175985	-107.427361
12,452.0	90.00	136.00	5,412.7	-4,861.1	5,542.7	1,885,390.16	1,292,988.17	36.175862	-107.427211
12,515.0	90.20	135.90	5,412.6	-4,906.4	5,586.5	1,885,344.34	1,293,031.41	36.175738	-107.427063
12,578.0	90.80	134.90	5,412.0	-4,951.2	5,630.7	1,885,298.95	1,293,075.09	36.175615	-107.426913
12,642.0	89.60	137.00	5,411.8	-4,997.2	5,675.2	1,885,252.40	1,293,119.01	36.175488	-107.426762
12,705.0	89.90	136.50	5,412.1	-5,043.1	5,718.4	1,885,205.99	1,293,161.61	36.175362	-107.426616
12,735.0	90.00	136.30	5,412.1	-5,064.8	5,739.1	1,885,184.01	1,293,182.03	36.175303	-107.426546
Last CES Survey @ 12,735' MD									
12,780.0	90.00	136.30	5,412.1	-5,097.4	5,770.2	1,885,151.10	1,293,212.72	36.175213	-107.426441
PTB @ 12,780'									

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 M26-2306 01H PB	0.00	0.00	5,400.7	-5,118.9	5,787.4	1,885,129.38	1,293,229.69	36.175154	-107.426382
- survey misses target center by 29.8ft at 12780.0ft MD (5412.1 TVD, -5097.4 N, 5770.2 E)									
- Point									

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU M26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	WELL @ 6954.0ft (A950)
Site:	GCU	MD Reference:	WELL @ 6954.0ft (A950)
Well:	GCU M26-2306 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,735.0	5,412.1	-5,064.8	5,739.1	Last CES Survey @ 12,735' MD
12,780.0	5,412.1	-5,097.4	5,770.2	PTB @ 12,780'

Checked By: _____	Approved By: _____	Date: _____
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