

CONFIDENTIAL

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

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

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

☒ AMENDED REPORT
☒ AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21207	² Pool Code 13379	³ Pool Name COUNSELORS GALLUP-DAKOTA
⁴ Property Code 313261	⁵ Property Name GALLO CANYON UNIT P26-2306	⁶ Well Number 01H
⁷ OGRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁹ Elevation 6867.3'

¹⁰ Surface Location

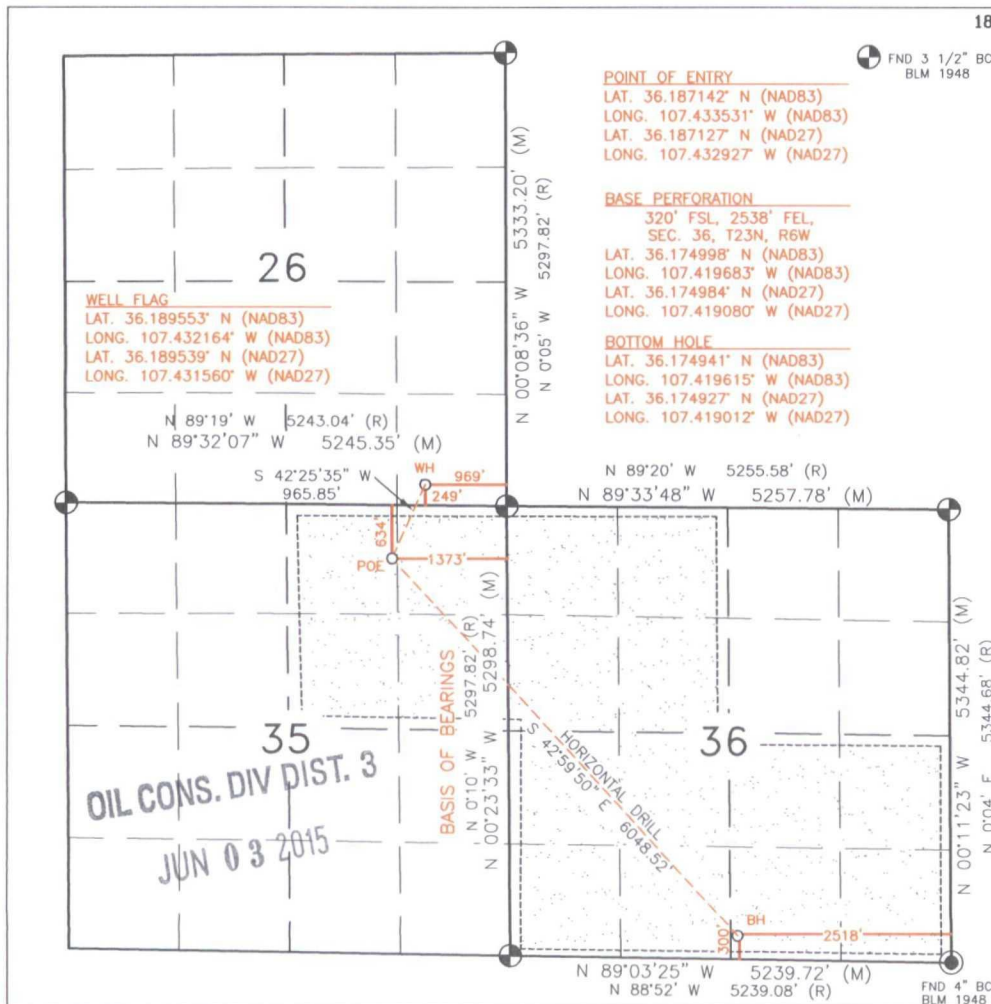
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	26	23N	6W		249'	SOUTH	969'	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	36	23N	6W		300'	SOUTH	2518'	EAST	SANDOVAL
¹² Dedicated Acres PROJECT AREA 5,120 Acres Sec. 22-26, 34-36 - Undivided Unit Penetrated Spacing Units; S/2 & NW Sec. 36; NE Sec. 35 - 640 Acres			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. R-13718-A (5,120 Acres) Committed		

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

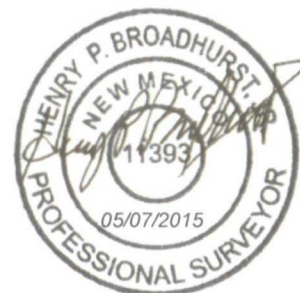
Katie.Wegner@encana.com
E-mail Address

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:



A

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Energy, Minerals & Natural Resources Department

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OIL CONSERVATION DIVISION

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

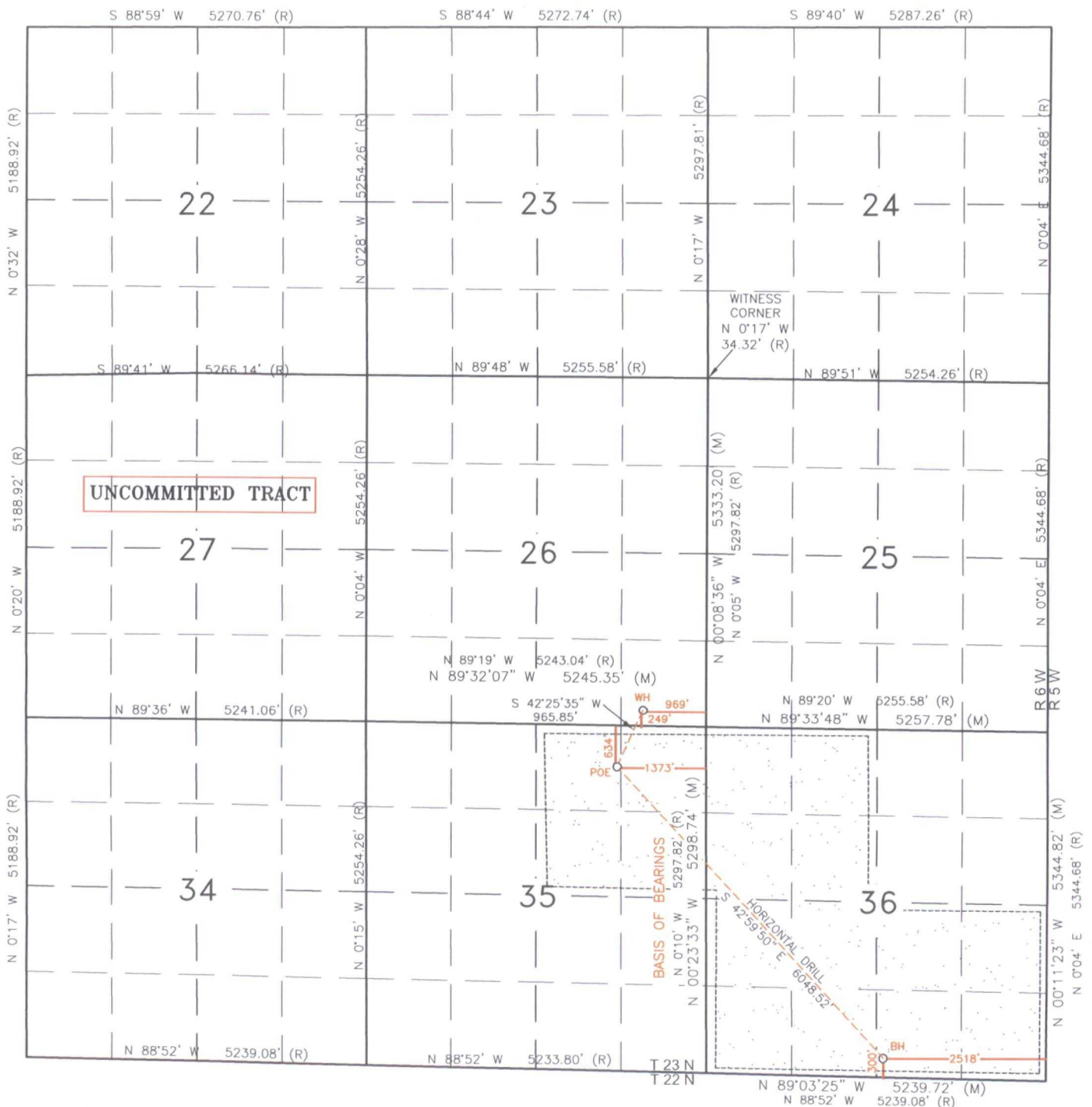
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District Office

☒ AMENDED REPORT

☒ AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

ENCANA OIL & GAS (USA) INC.
GALLO CANYON UNIT P16-2306 #01H

**WELL FLAG**

LAT. 36.189553° N (NAD83)
LONG. 107.432164° W (NAD83)
LAT. 36.189539° N (NAD27)
LONG. 107.431560° W (NAD27)

POINT OF ENTRY

LAT. 36.187142° N (NAD83)
LONG. 107.433531° W (NAD83)
LAT. 36.187127° N (NAD27)
LONG. 107.432927° W (NAD27)

BOTTOM HOLE

LAT. 36.174941° N (NAD83)
LONG. 107.419615° W (NAD83)
LAT. 36.174927° N (NAD27)
LONG. 107.419012° W (NAD27)

CONFIDENTIAL

DEVIATION SURVEYS

Gallo Canyon Unit P26-2306 01H
30-043-21207

MD (Feet)	Inclination (Degree)
336'	0.60
596'	0.60
912'	0.80
1227'	1.20
1543'	0.40
1859'	0.70
2175'	0.30
2481'	0.10
2784'	0.70
3086'	2.00
3389'	7.30

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.

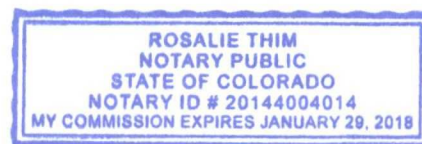
In witness whereof, I hereunto set my hand and official seal.

Notary Public:

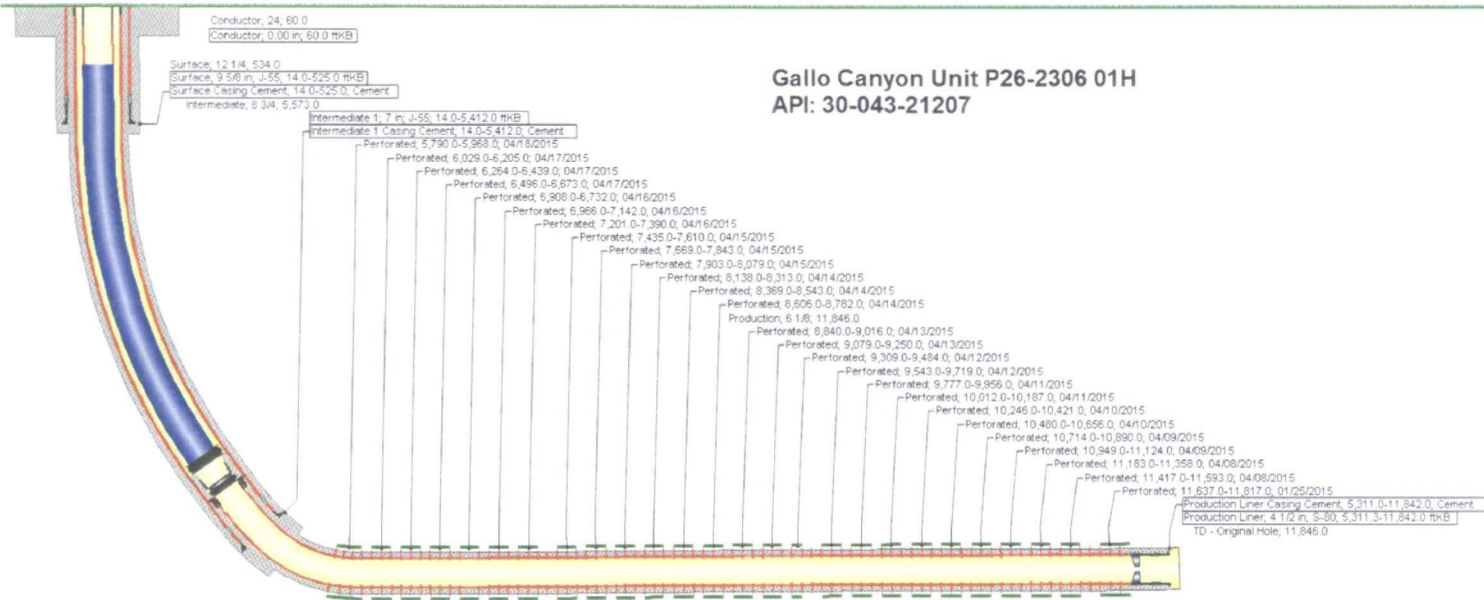
Rosalie Thim

My Commission Expires:

1/29/18



Gallo Canyon Unit P26-2306 01H
API: 30-043-21207



OIL CONS. DIV DIST. 3

JUN 03 2015

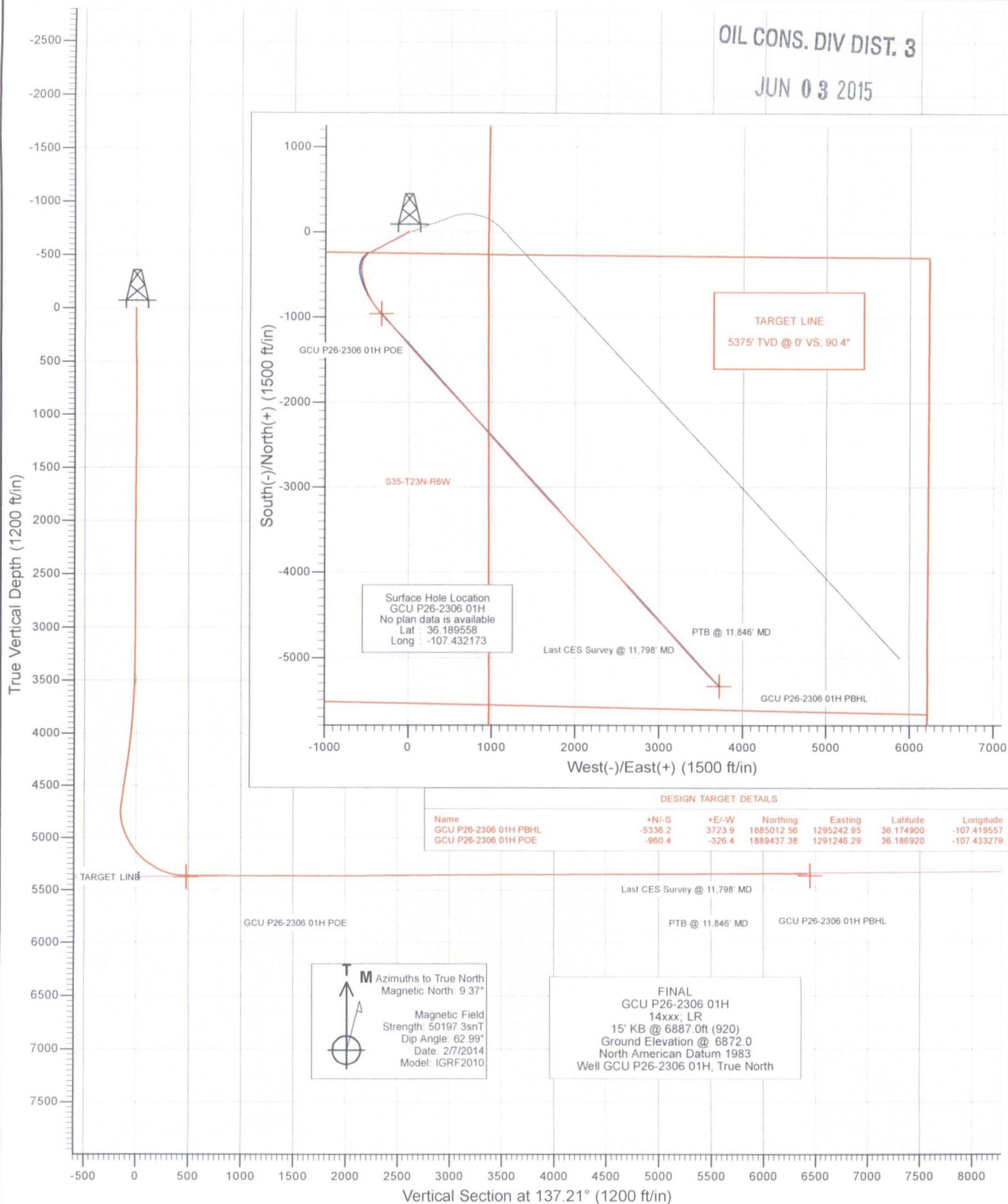


Project: Sandoval County, NM
 Site: S26-T23N-R6W
 Well: GCU P26-2306 01H
 Wellbore: Hz
 Design: FINAL



OIL CONS. DIV DIST. 3

JUN 03 2015



HP
Survey Report

OIL CONS. DIV DIST. 3

JUN 03 2015

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	15' KB @ 6887.0ft (920)
Site:	S26-T23N-R6W	MD Reference:	15' KB @ 6887.0ft (920)
Well:	GCU P26-2306 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 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		S26-T23N-R6W			
Site Position:		Northing:	1,890,393.73 ft	Latitude:	36.189558
From:	Lat/Long	Easting:	1,291,584.38 ft	Longitude:	-107.432173
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.70 °

Well	GCU P26-2306 01H					
Well Position	+N/-S	0.0 ft	Northing:	1,890,393.73 ft	Latitude:	36.189558
	+E/-W	0.0 ft	Easting:	1,291,584.38 ft	Longitude:	-107.432173
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,872.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/7/2014	9.37	62.99	50,197

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	137.21	

Survey Program		Date	1/5/2015	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
147.0	11,846.0	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	
147.0	0.60	83.50	147.0	0.1	0.8	0.5	0.41	0.41	
210.0	0.30	83.70	210.0	0.1	1.3	0.7	0.48	-0.48	
273.0	0.80	99.30	273.0	0.1	1.9	1.2	0.82	0.79	
336.0	0.60	123.10	336.0	-0.2	2.6	1.9	0.55	-0.32	
399.0	0.60	120.90	399.0	-0.5	3.1	2.5	0.04	0.00	
463.0	0.50	127.30	463.0	-0.9	3.6	3.1	0.18	-0.16	
477.0	0.80	140.60	477.0	-1.0	3.7	3.3	2.38	2.14	
532.0	0.70	186.60	532.0	-1.6	3.9	3.9	1.08	-0.18	
596.0	0.60	178.50	596.0	-2.3	3.9	4.4	0.21	-0.16	
659.0	0.40	189.10	659.0	-2.9	3.9	4.7	0.35	-0.32	
722.0	0.60	206.80	722.0	-3.4	3.7	5.0	0.40	0.32	
785.0	0.70	210.20	785.0	-4.0	3.4	5.2	0.17	0.16	

HP

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S26-T23N-R6W
Well: GCU P26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU P26-2306 01H
TVD Reference: 15' KB @ 6887.0ft (920)
MD Reference: 15' KB @ 6887.0ft (920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM R5000 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
849.0	0.70	220.30	849.0	-4.6	2.9	5.4	0.19	0.00	
912.0	0.80	235.30	912.0	-5.2	2.3	5.4	0.35	0.16	
975.0	0.80	235.90	974.9	-5.7	1.6	5.2	0.01	0.00	
1,038.0	0.90	228.30	1,037.9	-6.3	0.8	5.2	0.24	0.16	
1,101.0	1.00	309.70	1,100.9	-6.2	0.0	4.6	1.97	0.16	
1,164.0	1.50	328.00	1,163.9	-5.2	-0.8	3.3	1.01	0.79	
1,227.0	1.20	320.80	1,226.9	-4.0	-1.7	1.8	0.55	-0.48	
1,291.0	0.50	329.30	1,290.9	-3.2	-2.2	0.8	1.11	-1.09	
1,354.0	0.20	347.50	1,353.9	-2.9	-2.4	0.5	0.50	-0.48	
1,417.0	0.40	337.70	1,416.9	-2.6	-2.5	0.2	0.33	0.32	
1,480.0	0.30	313.40	1,479.9	-2.2	-2.7	-0.2	0.28	-0.16	
1,543.0	0.40	333.40	1,542.9	-1.9	-2.9	-0.6	0.25	0.16	
1,607.0	0.40	348.30	1,606.9	-1.5	-3.1	-1.0	0.16	0.00	
1,670.0	0.70	314.90	1,669.9	-1.0	-3.4	-1.5	0.68	0.48	
1,733.0	0.50	305.60	1,732.9	-0.6	-3.9	-2.2	0.35	-0.32	
1,796.0	0.60	300.70	1,795.9	-0.3	-4.4	-2.8	0.18	0.16	
1,859.0	0.70	300.70	1,858.9	0.1	-5.0	-3.5	0.16	0.16	
1,923.0	0.70	300.90	1,922.9	0.5	-5.7	-4.2	0.00	0.00	
1,986.0	0.40	32.50	1,985.9	0.9	-5.9	-4.6	1.30	-0.48	
2,049.0	0.30	16.00	2,048.9	1.2	-5.7	-4.8	0.22	-0.16	
2,112.0	0.30	18.00	2,111.9	1.5	-5.6	-5.0	0.02	0.00	
2,175.0	0.30	2.90	2,174.9	1.9	-5.6	-5.1	0.13	0.00	
2,236.0	0.20	28.70	2,235.9	2.1	-5.5	-5.3	0.24	-0.16	
2,296.0	0.10	70.10	2,295.9	2.2	-5.4	-5.3	0.24	-0.17	
2,356.0	0.10	99.30	2,355.9	2.2	-5.3	-5.2	0.08	0.00	
2,420.0	0.10	177.80	2,419.9	2.2	-5.3	-5.2	0.20	0.00	
2,481.0	0.10	271.60	2,480.9	2.1	-5.3	-5.2	0.24	0.00	
2,541.0	0.20	256.90	2,540.9	2.1	-5.5	-5.2	0.18	0.17	
2,602.0	0.20	232.80	2,601.9	2.0	-5.6	-5.3	0.14	0.00	
2,662.0	0.40	87.20	2,661.9	2.0	-5.5	-5.2	0.96	0.33	
2,723.0	0.90	82.30	2,722.9	2.0	-4.8	-4.8	0.82	0.82	
2,784.0	0.70	81.30	2,783.9	2.1	-4.0	-4.3	0.33	-0.33	
2,844.0	0.60	87.40	2,843.9	2.2	-3.3	-3.9	0.20	-0.17	
2,905.0	0.50	92.90	2,904.9	2.2	-2.7	-3.5	0.19	-0.16	
2,965.0	0.20	74.70	2,964.9	2.2	-2.4	-3.2	0.53	-0.50	
3,026.0	1.30	226.30	3,025.8	1.8	-2.8	-3.2	2.42	1.80	
3,086.0	2.00	234.70	3,085.8	0.7	-4.1	-3.3	1.23	1.17	
3,147.0	3.50	237.50	3,146.7	-0.9	-6.5	-3.8	2.47	2.46	
3,207.0	4.70	241.00	3,206.6	-3.1	-10.2	-4.7	2.04	2.00	
3,267.0	6.10	243.50	3,266.3	-5.7	-15.2	-6.2	2.37	2.33	
3,328.0	6.30	242.40	3,327.0	-8.7	-21.1	-8.0	0.38	0.33	
3,389.0	7.30	237.20	3,387.5	-12.3	-27.3	-9.5	1.92	1.64	
3,449.0	8.90	232.00	3,446.9	-17.3	-34.2	-10.6	2.93	2.67	
3,511.0	10.30	235.50	3,508.1	-23.4	-42.5	-11.8	2.45	2.26	
3,571.0	10.90	240.10	3,567.0	-29.2	-51.9	-13.8	1.73	1.00	
3,631.0	12.00	243.00	3,625.9	-34.9	-62.4	-16.8	2.07	1.83	
3,692.0	13.90	242.40	3,685.3	-41.2	-74.5	-20.4	3.12	3.11	
3,753.0	15.50	242.20	3,744.3	-48.4	-88.2	-24.4	2.62	2.62	
3,815.0	16.60	242.30	3,803.9	-56.3	-103.4	-28.9	1.77	1.77	
3,875.0	17.80	242.20	3,861.2	-64.6	-119.1	-33.5	2.00	2.00	
3,936.0	18.80	243.80	3,919.1	-73.3	-136.1	-38.7	1.83	1.64	
3,997.0	20.00	244.00	3,976.7	-82.2	-154.3	-44.5	1.97	1.97	
4,058.0	20.70	242.60	4,033.8	-91.7	-173.3	-50.4	1.40	1.15	

HP

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S26-T23N-R6W
Well: GCU P26-2306 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well GCU P26-2306 01H
TVD Reference: 15' KB @ 6887.0ft (920)
MD Reference: 15' KB @ 6887.0ft (920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM R5000 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
4,118.0	21.10	241.80	4,089.9	-101.7	-192.2	-55.9	0.82	0.67	
4,178.0	24.20	243.30	4,145.3	-112.3	-212.7	-62.1	5.26	5.17	
4,240.0	26.50	243.70	4,201.3	-124.2	-236.5	-69.5	3.72	3.71	
4,300.0	28.00	242.90	4,254.6	-136.5	-261.0	-77.1	2.57	2.50	
4,360.0	28.20	241.90	4,307.6	-149.6	-286.1	-84.5	0.85	0.33	
4,421.0	27.40	242.20	4,361.5	-163.0	-311.2	-91.8	1.33	-1.31	
4,482.0	28.40	242.50	4,415.4	-176.2	-336.5	-99.3	1.66	1.64	
4,543.0	29.70	242.20	4,468.8	-190.0	-362.7	-107.0	2.14	2.13	
4,603.0	29.50	242.80	4,520.9	-203.6	-389.0	-114.8	0.60	-0.33	
4,666.0	28.30	242.00	4,576.1	-217.7	-416.0	-122.8	2.00	-1.90	
4,730.0	29.10	242.40	4,632.2	-232.1	-443.2	-130.8	1.29	1.25	
4,761.0	29.80	242.10	4,659.2	-239.2	-456.7	-134.7	2.31	2.26	
4,793.0	30.80	241.40	4,686.8	-246.8	-470.9	-138.8	3.31	3.12	
4,824.0	31.80	237.10	4,713.3	-255.1	-484.7	-142.1	7.89	3.23	
4,856.0	32.70	230.50	4,740.4	-265.1	-498.5	-144.1	11.35	2.81	
4,888.0	33.10	223.90	4,767.3	-276.9	-511.2	-144.0	11.27	1.25	
4,919.0	33.20	218.50	4,793.2	-289.7	-522.4	-142.3	9.53	0.32	
4,951.0	33.40	213.40	4,820.0	-303.9	-532.7	-138.8	8.77	0.62	
4,983.0	32.60	208.40	4,846.8	-318.8	-541.6	-134.0	8.87	-2.50	
5,014.0	31.80	203.20	4,873.1	-333.7	-548.8	-127.9	9.30	-2.58	
5,046.0	31.20	197.40	4,900.4	-349.3	-554.6	-120.4	9.65	-1.87	
5,077.0	32.10	192.30	4,926.7	-365.1	-558.8	-111.7	9.11	2.90	
5,109.0	33.60	188.80	4,953.6	-382.1	-561.9	-101.3	7.56	4.69	
5,140.0	34.90	186.10	4,979.3	-399.4	-564.2	-90.1	6.45	4.19	
5,172.0	35.80	183.00	5,005.4	-417.9	-565.6	-77.6	6.27	2.81	
5,204.0	36.70	179.20	5,031.2	-436.8	-566.0	-64.0	7.56	2.81	
5,235.0	37.70	174.90	5,055.9	-455.5	-565.0	-49.6	8.98	3.23	
5,267.0	39.50	172.70	5,080.9	-475.3	-562.9	-33.5	7.07	5.62	
5,298.0	41.70	172.40	5,104.4	-495.3	-560.3	-17.1	7.12	7.10	
5,330.0	44.30	171.20	5,127.8	-516.9	-557.1	0.9	8.52	8.12	
5,361.0	46.20	168.80	5,149.6	-538.6	-553.3	19.4	8.23	6.13	
5,393.0	48.30	165.10	5,171.4	-561.5	-548.0	39.8	10.73	6.56	
5,424.0	50.70	164.00	5,191.5	-584.2	-541.7	60.7	8.20	7.74	
5,456.0	53.30	162.50	5,211.2	-608.3	-534.4	83.4	8.92	8.12	
5,488.0	56.00	161.10	5,229.7	-633.1	-526.3	107.1	9.16	8.44	
5,523.0	57.10	162.60	5,249.0	-660.9	-517.2	133.7	4.76	3.14	
5,554.0	58.60	159.40	5,265.5	-685.7	-508.6	157.7	9.99	4.84	
5,586.0	60.40	157.10	5,281.7	-711.3	-498.4	183.4	8.37	5.62	
5,618.0	63.30	153.40	5,296.8	-736.9	-486.6	210.2	13.64	9.06	
5,649.0	66.50	152.30	5,310.0	-761.9	-473.8	237.3	10.81	10.32	
5,681.0	69.00	149.20	5,322.1	-787.7	-459.3	266.0	11.89	7.81	
5,713.0	71.80	149.40	5,332.8	-813.6	-443.9	295.5	8.77	8.75	
5,744.0	75.00	147.20	5,341.7	-838.9	-428.3	324.7	12.37	10.33	
5,776.0	77.90	143.60	5,349.2	-864.5	-410.7	355.4	14.20	9.06	
5,807.0	81.50	141.90	5,354.7	-888.8	-392.2	385.8	12.80	11.61	
5,839.0	84.20	142.00	5,358.7	-913.8	-372.6	417.4	8.44	8.44	
5,871.0	86.30	140.40	5,361.4	-938.6	-352.6	449.2	8.24	6.56	
5,902.0	88.20	138.10	5,362.9	-962.1	-332.4	480.2	9.62	6.13	
5,965.0	90.60	136.40	5,363.5	-1,008.3	-289.7	543.2	4.67	3.81	
6,029.0	89.90	135.90	5,363.2	-1,054.5	-245.3	607.2	1.34	-1.09	
6,092.0	89.80	137.90	5,363.4	-1,100.5	-202.3	670.2	3.18	-0.16	
6,155.0	90.00	137.00	5,363.5	-1,146.9	-159.7	733.2	1.46	0.32	
6,219.0	90.20	136.00	5,363.4	-1,193.3	-115.6	797.1	1.59	0.31	

HP

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	15' KB @ 6887.0ft (920)
Site:	S26-T23N-R6W	MD Reference:	15' KB @ 6887.0ft (920)
Well:	GCU P26-2306 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 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
6,282.0	89.50	139.30	5,363.6	-1,239.9	-73.2	860.1	5.35	-1.11	
6,345.0	89.90	139.50	5,363.9	-1,287.7	-32.2	923.1	0.71	0.63	
6,408.0	89.90	137.50	5,364.0	-1,334.9	9.5	986.1	3.17	0.00	
6,472.0	90.10	137.50	5,364.0	-1,382.1	52.8	1,050.1	0.31	0.31	
6,535.0	90.30	136.80	5,363.8	-1,428.2	95.6	1,113.1	1.16	0.32	
6,598.0	90.60	137.40	5,363.3	-1,474.4	138.5	1,176.1	1.06	0.48	
6,661.0	89.80	138.00	5,363.1	-1,521.0	180.9	1,239.1	1.59	-1.27	
6,724.0	89.60	137.60	5,363.4	-1,567.7	223.2	1,302.1	0.71	-0.32	
6,788.0	89.40	137.40	5,364.0	-1,614.8	266.5	1,366.1	0.44	-0.31	
6,851.0	90.50	137.10	5,364.0	-1,661.1	309.2	1,429.1	1.81	1.75	
6,914.0	90.60	137.00	5,363.4	-1,707.2	352.1	1,492.1	0.22	0.16	
6,977.0	90.80	135.90	5,362.6	-1,752.9	395.5	1,555.0	1.77	0.32	
7,041.0	89.50	137.10	5,362.5	-1,799.3	439.6	1,619.0	2.76	-2.03	
7,104.0	89.50	136.10	5,363.0	-1,845.1	482.9	1,682.0	1.59	0.00	
7,167.0	89.50	137.60	5,363.6	-1,891.0	526.0	1,745.0	2.38	0.00	
7,230.0	90.30	137.30	5,363.7	-1,937.4	568.6	1,808.0	1.36	1.27	
7,294.0	90.40	135.70	5,363.3	-1,983.9	612.6	1,872.0	2.50	0.16	
7,357.0	90.00	135.70	5,363.1	-2,028.9	656.6	1,935.0	0.63	-0.63	
7,420.0	90.30	136.50	5,362.9	-2,074.3	700.3	1,998.0	1.36	0.48	
7,483.0	90.20	136.00	5,362.6	-2,119.8	743.9	2,061.0	0.81	-0.16	
7,546.0	91.00	136.50	5,362.0	-2,165.4	787.4	2,124.0	1.50	1.27	
7,610.0	91.40	138.70	5,360.6	-2,212.6	830.6	2,187.9	3.49	0.62	
7,673.0	91.50	138.30	5,359.0	-2,259.8	872.3	2,250.9	0.65	0.16	
7,736.0	90.40	138.10	5,358.0	-2,306.7	914.3	2,313.9	1.77	-1.75	
7,799.0	90.30	137.70	5,357.6	-2,353.5	956.5	2,376.9	0.65	-0.16	
7,860.0	90.40	137.70	5,357.2	-2,398.6	997.6	2,437.9	0.16	0.16	
7,920.0	90.50	137.10	5,356.8	-2,442.7	1,038.2	2,497.9	1.01	0.17	
7,980.0	90.00	138.60	5,356.5	-2,487.2	1,078.5	2,557.9	2.64	-0.83	
8,041.0	89.90	137.00	5,356.6	-2,532.4	1,119.4	2,618.9	2.63	-0.16	
8,101.0	90.20	137.50	5,356.5	-2,576.5	1,160.2	2,678.9	0.97	0.50	
8,161.0	90.70	135.70	5,356.0	-2,620.1	1,201.4	2,738.8	3.11	0.83	
8,222.0	90.30	137.10	5,355.5	-2,664.2	1,243.4	2,799.8	2.39	-0.66	
8,283.0	90.50	137.00	5,355.1	-2,708.9	1,285.0	2,860.8	0.37	0.33	
8,343.0	89.60	138.10	5,355.0	-2,753.2	1,325.5	2,920.8	2.37	-1.50	
8,404.0	89.80	137.10	5,355.3	-2,798.2	1,366.6	2,981.8	1.67	0.33	
8,464.0	90.50	138.20	5,355.2	-2,842.5	1,407.1	3,041.8	2.17	1.17	
8,525.0	91.10	137.80	5,354.3	-2,887.9	1,447.9	3,102.8	1.18	0.98	
8,586.0	90.40	137.20	5,353.5	-2,932.8	1,489.1	3,163.8	1.51	-1.15	
8,646.0	90.20	136.50	5,353.2	-2,976.6	1,530.1	3,223.8	1.21	-0.33	
8,706.0	90.60	136.00	5,352.8	-3,020.0	1,571.6	3,283.8	1.07	0.67	
8,767.0	90.50	137.80	5,352.2	-3,064.5	1,613.3	3,344.8	2.96	-0.16	
8,827.0	90.60	137.10	5,351.6	-3,108.7	1,653.8	3,404.8	1.18	0.17	
8,888.0	90.80	137.20	5,350.9	-3,153.4	1,695.3	3,465.8	0.37	0.33	
8,949.0	90.10	137.10	5,350.4	-3,198.1	1,736.8	3,526.8	1.16	-1.15	
9,009.0	90.00	136.40	5,350.4	-3,241.8	1,777.9	3,586.8	1.18	-0.17	
9,070.0	90.30	135.50	5,350.2	-3,285.7	1,820.3	3,647.8	1.56	0.49	
9,131.0	90.40	135.90	5,349.8	-3,329.3	1,862.9	3,708.7	0.68	0.16	
9,191.0	90.40	137.70	5,349.4	-3,373.1	1,904.0	3,768.7	3.00	0.00	
9,252.0	90.40	137.10	5,349.0	-3,418.0	1,945.3	3,829.7	0.98	0.00	
9,313.0	90.00	135.30	5,348.8	-3,462.0	1,987.5	3,890.7	3.02	-0.66	
9,374.0	90.10	135.80	5,348.7	-3,505.5	2,030.2	3,951.7	0.84	0.16	
9,435.0	90.20	138.00	5,348.6	-3,550.1	2,071.9	4,012.7	3.61	0.16	
9,496.0	90.70	138.40	5,348.1	-3,595.5	2,112.6	4,073.7	1.05	0.82	

HP

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	15' KB @ 6887.0ft (920)
Site:	S26-T23N-R6W	MD Reference:	15' KB @ 6887.0ft (920)
Well:	GCU P26-2306 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 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
9,557.0	90.80	137.90	5,347.3	-3,641.0	2,153.3	4,134.7	0.84	0.16	
9,617.0	91.50	136.90	5,346.1	-3,685.1	2,193.9	4,194.6	2.03	1.17	
9,678.0	90.40	137.80	5,345.1	-3,730.0	2,235.2	4,255.6	2.33	-1.80	
9,738.0	90.30	137.30	5,344.7	-3,774.3	2,275.7	4,315.6	0.85	-0.17	
9,799.0	90.40	136.40	5,344.3	-3,818.8	2,317.4	4,376.6	1.48	0.16	
9,860.0	90.00	136.40	5,344.1	-3,862.9	2,359.5	4,437.6	0.66	-0.66	
9,921.0	89.90	136.00	5,344.2	-3,907.0	2,401.7	4,498.6	0.68	-0.16	
9,981.0	90.00	137.40	5,344.2	-3,950.6	2,442.8	4,558.6	2.34	0.17	
10,041.0	90.90	139.30	5,343.7	-3,995.5	2,482.7	4,618.6	3.50	1.50	
10,102.0	90.50	137.80	5,343.0	-4,041.2	2,523.1	4,679.6	2.54	-0.66	
10,163.0	90.70	137.80	5,342.4	-4,086.4	2,564.0	4,740.6	0.33	0.33	
10,224.0	90.20	139.10	5,341.9	-4,132.0	2,604.5	4,801.5	2.28	-0.82	
10,287.0	90.20	138.70	5,341.7	-4,179.5	2,645.9	4,864.5	0.63	0.00	
10,350.0	90.60	137.40	5,341.2	-4,226.3	2,688.0	4,927.5	2.16	0.63	
10,413.0	89.70	138.60	5,341.1	-4,273.2	2,730.2	4,990.5	2.38	-1.43	
10,476.0	89.70	137.80	5,341.4	-4,320.1	2,772.2	5,053.5	1.27	0.00	
10,540.0	89.30	137.30	5,341.9	-4,367.3	2,815.4	5,117.5	1.00	-0.62	
10,603.0	90.40	136.50	5,342.1	-4,413.3	2,858.4	5,180.5	2.16	1.75	
10,666.0	90.60	137.20	5,341.6	-4,459.3	2,901.5	5,243.5	1.16	0.32	
10,729.0	89.40	136.90	5,341.6	-4,505.4	2,944.4	5,306.5	1.96	-1.90	
10,792.0	89.60	135.30	5,342.1	-4,550.8	2,988.1	5,369.5	2.56	0.32	
10,856.0	90.00	135.70	5,342.3	-4,596.5	3,033.0	5,433.4	0.88	0.62	
10,919.0	90.40	137.90	5,342.1	-4,642.4	3,076.1	5,496.4	3.55	0.63	
10,982.0	90.80	137.50	5,341.5	-4,689.0	3,118.5	5,559.4	0.90	0.63	
11,045.0	90.40	137.50	5,340.8	-4,735.4	3,161.0	5,622.4	0.63	-0.63	
11,109.0	90.80	138.30	5,340.1	-4,782.9	3,204.0	5,686.4	1.40	0.62	
11,172.0	89.90	138.00	5,339.7	-4,829.8	3,246.0	5,749.4	1.51	-1.43	
11,235.0	90.30	137.00	5,339.6	-4,876.3	3,288.5	5,812.4	1.71	0.63	
11,298.0	91.10	137.60	5,338.9	-4,922.6	3,331.3	5,875.4	1.59	1.27	
11,361.0	90.40	137.20	5,338.0	-4,968.9	3,373.9	5,938.4	1.28	-1.11	
11,425.0	89.20	136.10	5,338.3	-5,015.5	3,417.8	6,002.4	2.54	-1.87	
11,488.0	89.70	137.00	5,338.9	-5,061.2	3,461.2	6,065.4	1.63	0.79	
11,551.0	90.60	136.30	5,338.7	-5,107.0	3,504.4	6,128.4	1.81	1.43	
11,615.0	90.90	137.10	5,337.9	-5,153.6	3,548.3	6,192.4	1.33	0.47	
11,678.0	90.00	136.60	5,337.4	-5,199.6	3,591.4	6,255.4	1.63	-1.43	
11,741.0	90.40	136.80	5,337.1	-5,245.4	3,634.6	6,318.4	0.71	0.63	
11,798.0	91.10	136.30	5,336.4	-5,286.8	3,673.8	6,375.3	1.51	1.23	Last CES Survey @ 11,798' MD
11,846.0	91.10	136.30	5,335.5	-5,321.5	3,706.9	6,423.3	0.00	0.00	PTB @ 11,846' MD

HP

Survey Report

Company: EnCana Oil & Gas (USA) Inc Project: Sandoval County, NM Site: S26-T23N-R6W Well: GCU P26-2306 01H Wellbore: Hz Design: FINAL	Local Co-ordinate Reference: Well GCU P26-2306 01H TVD Reference: 15' KB @ 6887.0ft (920) MD Reference: 15' KB @ 6887.0ft (920) North Reference: True Survey Calculation Method: Minimum Curvature Database: USA EDM R5000 Multi Users DB	
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Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
GCU P26-2306 01H PBI - survey misses target center by 25.5ft at 11846.0ft MD (5335.5 TVD, -5321.5 N, 3706.9 E) - Point	0.00	0.00	5,347.5	-5,336.2	3,723.9	1,885,012.56	1,295,242.95	36.174900	-107.419557
GCU P26-2306 01H PBI - survey misses target center by 24.2ft at 11846.0ft MD (5335.5 TVD, -5321.5 N, 3706.9 E) - Point	0.00	0.00	5,344.5	-5,336.2	3,723.9	1,885,012.56	1,295,242.95	36.174900	-107.419557
GCU P26-2306 01H POI - survey misses target center by 13.6ft at 5905.0ft MD (5362.9 TVD, -964.3 N, -330.4 E) - Point	0.00	0.00	5,375.3	-960.4	-326.4	1,889,437.38	1,291,246.29	36.186920	-107.433279
GCU P26-2306 01H PBI - survey misses target center by 31.4ft at 11846.0ft MD (5335.5 TVD, -5321.5 N, 3706.9 E) - Point	0.00	0.00	5,357.5	-5,336.2	3,723.9	1,885,012.56	1,295,242.95	36.174900	-107.419557

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,119.6	5,375.0	TARGET LINE		-0.40	137.13

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,798.0	5,336.4	-5,286.8	3,673.8	Last CES Survey @ 11,798' MD
11,846.0	5,335.5	-5,321.5	3,706.9	PTB @ 11,846' MD

Checked By: _____ Approved By: _____ Date: _____

EnCana Oil & Gas (USA) Inc

Sandoval County, NM

S26-T23N-R6W

GCU P26-2306 01H

Hz

Survey: Survey #1

Survey Report - Geographic

05 January, 2015

HP

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	15' KB @ 6887.0ft (920)
Site:	S26-T23N-R6W	MD Reference:	15' KB @ 6887.0ft (920)
Well:	GCU P26-2306 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 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	S26-T23N-R6W				
Site Position:		Northing:	1,890,393.73 ft	Latitude:	36.189558
From:	Lat/Long	Easting:	1,291,584.38 ft	Longitude:	-107.432173
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.70 °

Well	GCU P26-2306 01H					
Well Position	+N/-S	0.0 ft	Northing:	1,890,393.73 ft	Latitude:	36.189558
	+E/-W	0.0 ft	Easting:	1,291,584.38 ft	Longitude:	-107.432173
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,872.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/7/2014	9.37	62.99	50,197

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	137.21	

Survey Program	Date	1/5/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
147.0	11,846.0	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	1,890,393.73	1,291,584.38	36.189558	-107.432173
147.0	0.60	83.50	147.0	0.1	0.8	1,890,393.81	1,291,585.14	36.189558	-107.432171
210.0	0.30	83.70	210.0	0.1	1.3	1,890,393.86	1,291,585.64	36.189558	-107.432169
273.0	0.80	99.30	273.0	0.1	1.9	1,890,393.80	1,291,586.23	36.189558	-107.432167
336.0	0.60	123.10	336.0	-0.2	2.6	1,890,393.54	1,291,586.94	36.189558	-107.432165
399.0	0.60	120.90	399.0	-0.5	3.1	1,890,393.18	1,291,587.50	36.189557	-107.432163
463.0	0.50	127.30	463.0	-0.9	3.6	1,890,392.84	1,291,588.00	36.189556	-107.432161
477.0	0.80	140.60	477.0	-1.0	3.7	1,890,392.72	1,291,588.11	36.189555	-107.432161
532.0	0.70	186.60	532.0	-1.6	3.9	1,890,392.09	1,291,588.31	36.189554	-107.432160
596.0	0.60	178.50	596.0	-2.3	3.9	1,890,391.37	1,291,588.26	36.189552	-107.432160
659.0	0.40	189.10	659.0	-2.9	3.9	1,890,390.82	1,291,588.23	36.189550	-107.432160
722.0	0.60	206.80	722.0	-3.4	3.7	1,890,390.31	1,291,588.04	36.189549	-107.432161

HP

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	15' KB @ 6887.0ft (920)
Site:	S26-T23N-R6W	MD Reference:	15' KB @ 6887.0ft (920)
Well:	GCU P26-2306 01H	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 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	
785.0	0.70	210.20	785.0	-4.0	3.4	1,890,389.69	1,291,587.69	36.189547	-107.432162	
849.0	0.70	220.30	849.0	-4.6	2.9	1,890,389.06	1,291,587.23	36.189545	-107.432163	
912.0	0.80	235.30	912.0	-5.2	2.3	1,890,388.52	1,291,586.62	36.189544	-107.432165	
975.0	0.80	235.90	974.9	-5.7	1.6	1,890,388.03	1,291,585.88	36.189542	-107.432168	
1,038.0	0.90	228.30	1,037.9	-6.3	0.8	1,890,387.47	1,291,585.14	36.189541	-107.432170	
1,101.0	1.00	309.70	1,100.9	-6.2	0.0	1,890,387.50	1,291,584.35	36.189541	-107.432173	
1,164.0	1.50	328.00	1,163.9	-5.2	-0.8	1,890,388.56	1,291,583.50	36.189544	-107.432176	
1,227.0	1.20	320.80	1,226.9	-4.0	-1.7	1,890,389.78	1,291,582.66	36.189547	-107.432179	
1,291.0	0.50	329.30	1,290.9	-3.2	-2.2	1,890,390.55	1,291,582.11	36.189549	-107.432181	
1,354.0	0.20	347.50	1,353.9	-2.9	-2.4	1,890,390.89	1,291,581.95	36.189550	-107.432181	
1,417.0	0.40	337.70	1,416.9	-2.6	-2.5	1,890,391.20	1,291,581.84	36.189551	-107.432182	
1,480.0	0.30	313.40	1,479.9	-2.2	-2.7	1,890,391.52	1,291,581.65	36.189552	-107.432182	
1,543.0	0.40	333.40	1,542.9	-1.9	-2.9	1,890,391.84	1,291,581.43	36.189553	-107.432183	
1,607.0	0.40	348.30	1,606.9	-1.5	-3.1	1,890,392.26	1,291,581.29	36.189554	-107.432184	
1,670.0	0.70	314.90	1,669.9	-1.0	-3.4	1,890,392.75	1,291,580.98	36.189555	-107.432185	
1,733.0	0.50	305.60	1,732.9	-0.6	-3.9	1,890,393.18	1,291,580.49	36.189556	-107.432186	
1,796.0	0.60	300.70	1,795.9	-0.3	-4.4	1,890,393.52	1,291,579.99	36.189557	-107.432188	
1,859.0	0.70	300.70	1,858.9	0.1	-5.0	1,890,393.89	1,291,579.38	36.189558	-107.432190	
1,923.0	0.70	300.90	1,922.9	0.5	-5.7	1,890,394.30	1,291,578.71	36.189559	-107.432193	
1,986.0	0.40	32.50	1,985.9	0.9	-5.9	1,890,394.69	1,291,578.50	36.189561	-107.432193	
2,049.0	0.30	16.00	2,048.9	1.2	-5.7	1,890,395.03	1,291,578.67	36.189561	-107.432193	
2,112.0	0.30	18.00	2,111.9	1.5	-5.6	1,890,395.34	1,291,578.77	36.189562	-107.432192	
2,175.0	0.30	2.90	2,174.9	1.9	-5.6	1,890,395.66	1,291,578.83	36.189563	-107.432192	
2,236.0	0.20	28.70	2,235.9	2.1	-5.5	1,890,395.92	1,291,578.89	36.189564	-107.432192	
2,296.0	0.10	70.10	2,295.9	2.2	-5.4	1,890,396.02	1,291,579.00	36.189564	-107.432192	
2,356.0	0.10	99.30	2,355.9	2.2	-5.3	1,890,396.03	1,291,579.10	36.189564	-107.432191	
2,420.0	0.10	177.80	2,419.9	2.2	-5.3	1,890,395.97	1,291,579.15	36.189564	-107.432191	
2,481.0	0.10	271.60	2,480.9	2.1	-5.3	1,890,395.92	1,291,579.10	36.189564	-107.432191	
2,541.0	0.20	256.90	2,540.9	2.1	-5.5	1,890,395.89	1,291,578.95	36.189564	-107.432192	
2,602.0	0.20	232.80	2,601.9	2.0	-5.6	1,890,395.81	1,291,578.76	36.189564	-107.432192	
2,662.0	0.40	87.20	2,661.9	2.0	-5.5	1,890,395.75	1,291,578.88	36.189563	-107.432192	
2,723.0	0.90	82.30	2,722.9	2.0	-4.8	1,890,395.82	1,291,579.57	36.189564	-107.432190	
2,784.0	0.70	81.30	2,783.9	2.1	-4.0	1,890,395.93	1,291,580.42	36.189564	-107.432187	
2,844.0	0.60	87.40	2,843.9	2.2	-3.3	1,890,395.99	1,291,581.09	36.189564	-107.432184	
2,905.0	0.50	92.90	2,904.9	2.2	-2.7	1,890,395.99	1,291,581.68	36.189564	-107.432183	
2,965.0	0.20	74.70	2,964.9	2.2	-2.4	1,890,396.00	1,291,582.04	36.189564	-107.432181	
3,026.0	1.30	226.30	3,025.8	1.8	-2.8	1,890,395.55	1,291,581.64	36.189563	-107.432183	
3,086.0	2.00	234.70	3,085.8	0.7	-4.1	1,890,394.49	1,291,580.28	36.189560	-107.432187	
3,147.0	3.50	237.50	3,146.7	-0.9	-6.5	1,890,392.91	1,291,577.82	36.189556	-107.432195	
3,207.0	4.70	241.00	3,206.6	-3.1	-10.2	1,890,390.78	1,291,574.10	36.189550	-107.432208	
3,267.0	6.10	243.50	3,266.3	-5.7	-15.2	1,890,388.22	1,291,569.06	36.189542	-107.432225	
3,328.0	6.30	242.40	3,327.0	-8.7	-21.1	1,890,385.30	1,291,563.16	36.189534	-107.432245	
3,389.0	7.30	237.20	3,387.5	-12.3	-27.3	1,890,381.72	1,291,556.89	36.189524	-107.432266	
3,449.0	8.90	232.00	3,446.9	-17.3	-34.2	1,890,376.88	1,291,549.97	36.189511	-107.432289	
3,511.0	10.30	235.50	3,508.1	-23.4	-42.5	1,890,370.89	1,291,541.55	36.189494	-107.432317	
3,571.0	10.90	240.10	3,567.0	-29.2	-51.9	1,890,365.14	1,291,532.14	36.189478	-107.432349	
3,631.0	12.00	243.00	3,625.9	-34.9	-62.4	1,890,359.61	1,291,521.60	36.189462	-107.432385	
3,692.0	13.90	242.40	3,685.3	-41.2	-74.5	1,890,353.48	1,291,509.38	36.189445	-107.432426	
3,753.0	15.50	242.20	3,744.3	-48.4	-88.2	1,890,346.46	1,291,495.58	36.189425	-107.432472	
3,815.0	16.60	242.30	3,803.9	-56.3	-103.4	1,890,338.66	1,291,480.32	36.189403	-107.432524	
3,875.0	17.80	242.20	3,861.2	-64.6	-119.1	1,890,330.59	1,291,464.52	36.189381	-107.432577	
3,936.0	18.80	243.80	3,919.1	-73.3	-136.1	1,890,322.11	1,291,447.35	36.189357	-107.432635	
3,997.0	20.00	244.00	3,976.7	-82.2	-154.3	1,890,313.42	1,291,429.04	36.189332	-107.432696	
4,058.0	20.70	242.60	4,033.8	-91.7	-173.3	1,890,304.12	1,291,409.98	36.189306	-107.432760	
4,118.0	21.10	241.80	4,089.9	-101.7	-192.2	1,890,294.37	1,291,390.93	36.189279	-107.432825	

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Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 Multi Users DB

Survey										
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4,178.0	24.20	243.30	4,145.3	-112.3	-212.7	1,890,283.98	1,291,370.29	36.189249		-107.432894
4,240.0	26.50	243.70	4,201.3	-124.2	-236.5	1,890,272.43	1,291,346.39	36.189217		-107.432975
4,300.0	28.00	242.90	4,254.6	-136.5	-261.0	1,890,260.39	1,291,321.70	36.189183		-107.433058
4,360.0	28.20	241.90	4,307.6	-149.6	-286.1	1,890,247.60	1,291,296.50	36.189147		-107.433143
4,421.0	27.40	242.20	4,361.5	-163.0	-311.2	1,890,234.57	1,291,271.21	36.189110		-107.433228
4,482.0	28.40	242.50	4,415.4	-176.2	-336.5	1,890,221.64	1,291,245.77	36.189074		-107.433313
4,543.0	29.70	242.20	4,468.8	-190.0	-362.7	1,890,208.21	1,291,219.36	36.189036		-107.433402
4,603.0	29.50	242.80	4,520.9	-203.6	-389.0	1,890,194.85	1,291,192.91	36.188999		-107.433491
4,666.0	28.30	242.00	4,576.1	-217.7	-416.0	1,890,181.07	1,291,165.76	36.188960		-107.433583
4,730.0	29.10	242.40	4,632.2	-232.1	-443.2	1,890,167.07	1,291,138.40	36.188921		-107.433675
4,761.0	29.80	242.10	4,659.2	-239.2	-456.7	1,890,160.14	1,291,124.83	36.188901		-107.433721
4,793.0	30.80	241.40	4,686.8	-246.8	-470.9	1,890,152.67	1,291,110.51	36.188880		-107.433769
4,824.0	31.80	237.10	4,713.3	-255.1	-484.7	1,890,144.60	1,291,096.59	36.188858		-107.433816
4,856.0	32.70	230.50	4,740.4	-265.1	-498.5	1,890,134.69	1,291,082.71	36.188830		-107.433862
4,888.0	33.10	223.90	4,767.3	-276.9	-511.2	1,890,123.05	1,291,069.83	36.188797		-107.433905
4,919.0	33.20	218.50	4,793.2	-289.7	-522.4	1,890,110.44	1,291,058.52	36.188762		-107.433943
4,951.0	33.40	213.40	4,820.0	-303.9	-532.7	1,890,096.36	1,291,048.05	36.188723		-107.433978
4,983.0	32.60	208.40	4,846.8	-318.8	-541.6	1,890,081.53	1,291,038.92	36.188682		-107.434009
5,014.0	31.80	203.20	4,873.1	-333.7	-548.8	1,890,066.76	1,291,031.54	36.188642		-107.434033
5,046.0	31.20	197.40	4,900.4	-349.3	-554.6	1,890,051.17	1,291,025.55	36.188599		-107.434053
5,077.0	32.10	192.30	4,926.7	-365.1	-558.8	1,890,035.51	1,291,021.21	36.188555		-107.434067
5,109.0	33.60	188.80	4,953.6	-382.1	-561.9	1,890,018.49	1,291,017.83	36.188508		-107.434077
5,140.0	34.90	186.10	4,979.3	-399.4	-564.2	1,890,001.22	1,291,015.37	36.188461		-107.434085
5,172.0	35.80	183.00	5,005.4	-417.9	-565.6	1,889,982.79	1,291,013.68	36.188410		-107.434090
5,204.0	36.70	179.20	5,031.2	-436.8	-566.0	1,889,963.88	1,291,013.09	36.188358		-107.434091
5,235.0	37.70	174.90	5,055.9	-455.5	-565.0	1,889,945.17	1,291,013.84	36.188307		-107.434088
5,267.0	39.50	172.70	5,080.9	-475.3	-562.9	1,889,925.30	1,291,015.76	36.188252		-107.434081
5,298.0	41.70	172.40	5,104.4	-495.3	-560.3	1,889,905.27	1,291,018.13	36.188198		-107.434072
5,330.0	44.30	171.20	5,127.8	-516.9	-557.1	1,889,883.63	1,291,020.98	36.188138		-107.434061
5,361.0	46.20	168.80	5,149.6	-538.6	-553.3	1,889,861.91	1,291,024.55	36.188079		-107.434048
5,393.0	48.30	165.10	5,171.4	-561.5	-548.0	1,889,838.97	1,291,029.59	36.188016		-107.434030
5,424.0	50.70	164.00	5,191.5	-584.2	-541.7	1,889,816.18	1,291,035.59	36.187953		-107.434009
5,456.0	53.30	162.50	5,211.2	-608.3	-534.4	1,889,791.96	1,291,042.57	36.187887		-107.433984
5,488.0	56.00	161.10	5,229.7	-633.1	-526.3	1,889,767.07	1,291,050.42	36.187819		-107.433957
5,523.0	57.10	162.60	5,249.0	-660.9	-517.2	1,889,739.20	1,291,059.18	36.187743		-107.433926
5,554.0	58.60	159.40	5,265.5	-685.7	-508.6	1,889,714.29	1,291,067.42	36.187675		-107.433897
5,586.0	60.40	157.10	5,281.7	-711.3	-498.4	1,889,688.57	1,291,077.33	36.187604		-107.433862
5,618.0	63.30	153.40	5,296.8	-736.9	-486.6	1,889,662.81	1,291,088.84	36.187534		-107.433822
5,649.0	66.50	152.30	5,310.0	-761.9	-473.8	1,889,637.69	1,291,101.35	36.187465		-107.433779
5,681.0	69.00	149.20	5,322.1	-787.7	-459.3	1,889,611.68	1,291,115.50	36.187394		-107.433730
5,713.0	71.80	149.40	5,332.8	-813.6	-443.9	1,889,585.58	1,291,130.58	36.187323		-107.433677
5,744.0	75.00	147.20	5,341.7	-838.9	-428.3	1,889,560.13	1,291,145.87	36.187254		-107.433625
5,776.0	77.90	143.60	5,349.2	-864.5	-410.7	1,889,534.32	1,291,163.22	36.187184		-107.433565
5,807.0	81.50	141.90	5,354.7	-888.8	-392.2	1,889,509.82	1,291,181.39	36.187117		-107.433502
5,839.0	84.20	142.00	5,358.7	-913.8	-372.6	1,889,484.59	1,291,200.65	36.187048		-107.433436
5,871.0	86.30	140.40	5,361.4	-938.6	-352.6	1,889,459.49	1,291,220.33	36.186980		-107.433368
5,902.0	88.20	138.10	5,362.9	-962.1	-332.4	1,889,435.79	1,291,240.25	36.186916		-107.433300
5,965.0	90.60	136.40	5,363.5	-1,008.3	-289.7	1,889,389.02	1,291,282.44	36.186788		-107.433155
6,029.0	89.90	135.90	5,363.2	-1,054.5	-245.3	1,889,342.33	1,291,326.21	36.186662		-107.433005
6,092.0	89.80	137.90	5,363.4	-1,100.5	-202.3	1,889,295.81	1,291,368.69	36.186535		-107.432859
6,155.0	90.00	137.00	5,363.5	-1,146.9	-159.7	1,889,248.89	1,291,410.72	36.186408		-107.432714
6,219.0	90.20	136.00	5,363.4	-1,193.3	-115.6	1,889,201.93	1,291,454.21	36.186280		-107.432565
6,282.0	89.50	139.30	5,363.6	-1,239.9	-73.2	1,889,154.86	1,291,496.07	36.186153		-107.432421
6,345.0	89.90	139.50	5,363.9	-1,287.7	-32.2	1,889,106.54	1,291,536.49	36.186021		-107.432282
6,408.0	89.90	137.50	5,364.0	-1,334.9	9.5	1,889,058.85	1,291,577.65	36.185892		-107.432141

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Site:	S26-T23N-R6W	MD Reference:	15' KB @ 6887.0ft (920)
Well:	GCU P26-2306 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 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
6,472.0	90.10	137.50	5,364.0	-1,382.1	52.8	1,889,011.14	1,291,620.31	36.185762	-107.431994
6,535.0	90.30	136.80	5,363.8	-1,428.2	95.6	1,888,964.43	1,291,662.59	36.185635	-107.431849
6,598.0	90.60	137.40	5,363.3	-1,474.4	138.5	1,888,917.77	1,291,704.91	36.185508	-107.431704
6,661.0	89.80	138.00	5,363.1	-1,521.0	180.9	1,888,870.66	1,291,746.74	36.185380	-107.431560
6,724.0	89.60	137.60	5,363.4	-1,567.7	223.2	1,888,823.48	1,291,788.48	36.185252	-107.431417
6,788.0	89.40	137.40	5,364.0	-1,614.8	266.5	1,888,775.77	1,291,831.14	36.185123	-107.431270
6,851.0	90.50	137.10	5,364.0	-1,661.1	309.2	1,888,728.99	1,291,873.34	36.184995	-107.431126
6,914.0	90.60	137.00	5,363.4	-1,707.2	352.1	1,888,682.36	1,291,915.70	36.184869	-107.430980
6,977.0	90.80	135.90	5,362.6	-1,752.9	395.5	1,888,636.18	1,291,958.54	36.184743	-107.430833
7,041.0	89.50	137.10	5,362.5	-1,799.3	439.6	1,888,589.22	1,292,002.02	36.184616	-107.430684
7,104.0	89.50	136.10	5,363.0	-1,845.1	482.9	1,888,542.93	1,292,044.75	36.184490	-107.430537
7,167.0	89.50	137.60	5,363.6	-1,891.0	526.0	1,888,496.44	1,292,087.27	36.184364	-107.430391
7,230.0	90.30	137.30	5,363.7	-1,937.4	568.6	1,888,449.52	1,292,129.30	36.184236	-107.430247
7,294.0	90.40	135.70	5,363.3	-1,983.9	612.6	1,888,402.56	1,292,172.78	36.184109	-107.430098
7,357.0	90.00	135.70	5,363.1	-2,028.9	656.6	1,888,356.94	1,292,216.23	36.183985	-107.429948
7,420.0	90.30	136.50	5,362.9	-2,074.3	700.3	1,888,311.02	1,292,259.36	36.183860	-107.429800
7,483.0	90.20	136.00	5,362.6	-2,119.8	743.9	1,888,264.98	1,292,302.36	36.183735	-107.429653
7,546.0	91.00	136.50	5,362.0	-2,165.4	787.4	1,888,218.95	1,292,345.37	36.183610	-107.429505
7,610.0	91.40	138.70	5,360.6	-2,212.6	830.6	1,888,171.18	1,292,387.93	36.183481	-107.429359
7,673.0	91.50	138.30	5,359.0	-2,259.8	872.3	1,888,123.51	1,292,429.09	36.183351	-107.429218
7,736.0	90.40	138.10	5,358.0	-2,306.7	914.3	1,888,076.04	1,292,470.50	36.183222	-107.429075
7,799.0	90.30	137.70	5,357.6	-2,353.5	956.5	1,888,028.79	1,292,512.16	36.183094	-107.428932
7,860.0	90.40	137.70	5,357.2	-2,398.6	997.6	1,887,983.17	1,292,552.66	36.182970	-107.428793
7,920.0	90.50	137.10	5,356.8	-2,442.7	1,038.2	1,887,938.52	1,292,592.73	36.182848	-107.428656
7,980.0	90.00	138.60	5,356.5	-2,487.2	1,078.5	1,887,893.55	1,292,632.45	36.182726	-107.428519
8,041.0	89.90	137.00	5,356.6	-2,532.4	1,119.4	1,887,847.86	1,292,672.87	36.182602	-107.428380
8,101.0	90.20	137.50	5,356.5	-2,576.5	1,160.2	1,887,803.31	1,292,713.06	36.182481	-107.428242
8,161.0	90.70	135.70	5,356.0	-2,620.1	1,201.4	1,887,759.22	1,292,753.74	36.182361	-107.428103
8,222.0	90.30	137.10	5,355.5	-2,664.2	1,243.4	1,887,714.54	1,292,795.27	36.182240	-107.427960
8,283.0	90.50	137.00	5,355.1	-2,708.9	1,285.0	1,887,669.39	1,292,836.28	36.182117	-107.427819
8,343.0	89.60	138.10	5,355.0	-2,753.2	1,325.5	1,887,624.63	1,292,876.23	36.181996	-107.427682
8,404.0	89.80	137.10	5,355.3	-2,798.2	1,366.6	1,887,579.09	1,292,916.81	36.181872	-107.427543
8,464.0	90.50	138.20	5,355.2	-2,842.5	1,407.1	1,887,534.26	1,292,956.69	36.181750	-107.427406
8,525.0	91.10	137.80	5,354.3	-2,887.9	1,447.9	1,887,488.43	1,292,996.95	36.181626	-107.427268
8,586.0	90.40	137.20	5,353.5	-2,932.8	1,489.1	1,887,442.97	1,293,037.60	36.181502	-107.427128
8,646.0	90.20	136.50	5,353.2	-2,976.6	1,530.1	1,887,398.70	1,293,078.10	36.181382	-107.426989
8,706.0	90.60	136.00	5,352.8	-3,020.0	1,571.6	1,887,354.85	1,293,119.06	36.181263	-107.426848
8,767.0	90.50	137.80	5,352.2	-3,064.5	1,613.3	1,887,309.81	1,293,160.19	36.181141	-107.426707
8,827.0	90.60	137.10	5,351.6	-3,108.7	1,653.8	1,887,265.12	1,293,200.22	36.181019	-107.426570
8,888.0	90.80	137.20	5,350.9	-3,153.4	1,695.3	1,887,219.90	1,293,241.15	36.180896	-107.426429
8,949.0	90.10	137.10	5,350.4	-3,198.1	1,736.8	1,887,174.68	1,293,282.09	36.180773	-107.426289
9,009.0	90.00	136.40	5,350.4	-3,241.8	1,777.9	1,887,130.48	1,293,322.66	36.180653	-107.426149
9,070.0	90.30	135.50	5,350.2	-3,285.7	1,820.3	1,887,086.13	1,293,364.54	36.180533	-107.426006
9,131.0	90.40	135.90	5,349.8	-3,329.3	1,862.9	1,887,041.95	1,293,406.61	36.180413	-107.425861
9,191.0	90.40	137.70	5,349.4	-3,373.1	1,904.0	1,886,997.72	1,293,447.14	36.180293	-107.425722
9,252.0	90.40	137.10	5,349.0	-3,418.0	1,945.3	1,886,952.32	1,293,487.88	36.180170	-107.425582
9,313.0	90.00	135.30	5,348.8	-3,462.0	1,987.5	1,886,907.78	1,293,529.56	36.180049	-107.425439
9,374.0	90.10	135.80	5,348.7	-3,505.5	2,030.2	1,886,863.72	1,293,571.74	36.179929	-107.425295
9,435.0	90.20	138.00	5,348.6	-3,550.1	2,071.9	1,886,818.68	1,293,612.87	36.179807	-107.425153
9,496.0	90.70	138.40	5,348.1	-3,595.5	2,112.6	1,886,772.72	1,293,652.97	36.179682	-107.425016
9,557.0	90.80	137.90	5,347.3	-3,641.0	2,153.3	1,886,726.79	1,293,693.11	36.179557	-107.424878
9,617.0	91.50	136.90	5,346.1	-3,685.1	2,193.9	1,886,682.14	1,293,733.17	36.179436	-107.424740
9,678.0	90.40	137.80	5,345.1	-3,730.0	2,235.2	1,886,636.78	1,293,773.94	36.179312	-107.424600
9,738.0	90.30	137.30	5,344.7	-3,774.3	2,275.7	1,886,592.02	1,293,813.90	36.179191	-107.424463
9,799.0	90.40	136.40	5,344.3	-3,818.8	2,317.4	1,886,547.01	1,293,855.07	36.179069	-107.424322

HP

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	15' KB @ 6887.0ft (920)
Site:	S26-T23N-R6W	MD Reference:	15' KB @ 6887.0ft (920)
Well:	GCU P26-2306 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 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
9,860.0	90.00	136.40	5,344.1	-3,862.9	2,359.5	1,886,502.33	1,293,896.59	36.178947	-107.424179
9,921.0	89.90	136.00	5,344.2	-3,907.0	2,401.7	1,886,457.79	1,293,938.28	36.178826	-107.424036
9,981.0	90.00	137.40	5,344.2	-3,950.6	2,442.8	1,886,413.63	1,293,978.89	36.178706	-107.423897
10,041.0	90.90	139.30	5,343.7	-3,995.5	2,482.7	1,886,368.32	1,294,018.21	36.178583	-107.423762
10,102.0	90.50	137.80	5,343.0	-4,041.2	2,523.1	1,886,322.11	1,294,058.03	36.178458	-107.423625
10,163.0	90.70	137.80	5,342.4	-4,086.4	2,564.0	1,886,276.43	1,294,098.45	36.178333	-107.423486
10,224.0	90.20	139.10	5,341.9	-4,132.0	2,604.5	1,886,230.29	1,294,138.34	36.178208	-107.423349
10,287.0	90.20	138.70	5,341.7	-4,179.5	2,645.9	1,886,182.32	1,294,179.18	36.178078	-107.423209
10,350.0	90.60	137.40	5,341.2	-4,226.3	2,688.0	1,886,134.95	1,294,220.72	36.177949	-107.423066
10,413.0	89.70	138.60	5,341.1	-4,273.2	2,730.2	1,886,087.63	1,294,262.30	36.177820	-107.422923
10,476.0	89.70	137.80	5,341.4	-4,320.1	2,772.2	1,886,040.16	1,294,303.71	36.177691	-107.422781
10,540.0	89.30	137.30	5,341.9	-4,367.3	2,815.4	1,885,992.41	1,294,346.33	36.177562	-107.422635
10,603.0	90.40	136.50	5,342.1	-4,413.3	2,858.4	1,885,945.89	1,294,388.81	36.177435	-107.422489
10,666.0	90.60	137.20	5,341.6	-4,459.3	2,901.5	1,885,899.41	1,294,431.33	36.177309	-107.422343
10,729.0	89.40	136.90	5,341.6	-4,505.4	2,944.4	1,885,852.78	1,294,473.69	36.177182	-107.422198
10,792.0	89.60	135.30	5,342.1	-4,550.8	2,988.1	1,885,806.86	1,294,516.81	36.177058	-107.422050
10,856.0	90.00	135.70	5,342.3	-4,596.5	3,033.0	1,885,760.67	1,294,561.11	36.176932	-107.421898
10,919.0	90.40	137.90	5,342.1	-4,642.4	3,076.1	1,885,714.22	1,294,603.67	36.176806	-107.421752
10,982.0	90.80	137.50	5,341.5	-4,689.0	3,118.5	1,885,667.12	1,294,645.50	36.176678	-107.421608
11,045.0	90.40	137.50	5,340.8	-4,735.4	3,161.0	1,885,620.15	1,294,687.49	36.176550	-107.421464
11,109.0	90.80	138.30	5,340.1	-4,782.9	3,204.0	1,885,572.15	1,294,729.81	36.176420	-107.421318
11,172.0	89.90	138.00	5,339.7	-4,829.8	3,246.0	1,885,524.72	1,294,771.27	36.176291	-107.421176
11,235.0	90.30	137.00	5,339.6	-4,876.3	3,288.5	1,885,477.75	1,294,813.26	36.176164	-107.421032
11,298.0	91.10	137.60	5,338.9	-4,922.6	3,331.3	1,885,430.94	1,294,855.41	36.176036	-107.420887
11,361.0	90.40	137.20	5,338.0	-4,968.9	3,373.9	1,885,384.05	1,294,897.49	36.175909	-107.420743
11,425.0	89.20	136.10	5,338.3	-5,015.5	3,417.8	1,885,336.99	1,294,940.85	36.175781	-107.420594
11,488.0	89.70	137.00	5,338.9	-5,061.2	3,461.2	1,885,290.73	1,294,983.61	36.175655	-107.420447
11,551.0	90.60	136.30	5,338.7	-5,107.0	3,504.4	1,885,244.39	1,295,026.29	36.175530	-107.420301
11,615.0	90.90	137.10	5,337.9	-5,153.6	3,548.3	1,885,197.29	1,295,069.61	36.175402	-107.420152
11,678.0	90.00	136.60	5,337.4	-5,199.6	3,591.4	1,885,150.81	1,295,112.13	36.175275	-107.420006
11,741.0	90.40	136.80	5,337.1	-5,245.4	3,634.6	1,885,104.43	1,295,154.78	36.175149	-107.419860
11,798.0	91.10	136.30	5,336.4	-5,286.8	3,673.8	1,885,062.58	1,295,193.47	36.175036	-107.419727
Last CES Survey @ 11,798' MD									
11,846.0	91.10	136.30	5,335.5	-5,321.5	3,706.9	1,885,027.49	1,295,226.20	36.174941	-107.419615
PTB @ 11,846' MD									

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 P26-2306 01H PBI	0.00	0.00	5,357.5	-5,336.2	3,723.9	1,885,012.57	1,295,242.95	36.174900	-107.419557
- survey misses target center by 31.4ft at 11846.0ft MD (5335.5 TVD, -5321.5 N, 3706.9 E)									
- Point									
GCU P26-2306 01H PO	0.00	0.00	5,375.3	-960.4	-326.4	1,889,437.38	1,291,246.29	36.186920	-107.433279
- survey misses target center by 13.6ft at 5905.0ft MD (5362.9 TVD, -964.3 N, -330.4 E)									
- Point									

HP

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well GCU P26-2306 01H
Project:	Sandoval County, NM	TVD Reference:	15' KB @ 6887.0ft (920)
Site:	S26-T23N-R6W	MD Reference:	15' KB @ 6887.0ft (920)
Well:	GCU P26-2306 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM R5000 Multi Users DB

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,119.6	5,363.2	TARGET LINE		-0.40	137.13

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
11,798.0	5,336.4	-5,286.8	3,673.8	Last CES Survey @ 11,798' MD	
11,846.0	5,335.5	-5,321.5	3,706.9	PTB @ 11,846' MD	

Checked By: _____ Approved By: _____ Date: _____