

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

☒ AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35435		*Pool Code 5890	*Pool Name BISTI LOWER - GALLUP
*Property Code 39811	*Property Name ESCRITO M07-2409		*Well Number 01H
*OGRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.		*Elevation 6910'

10 Surface Location

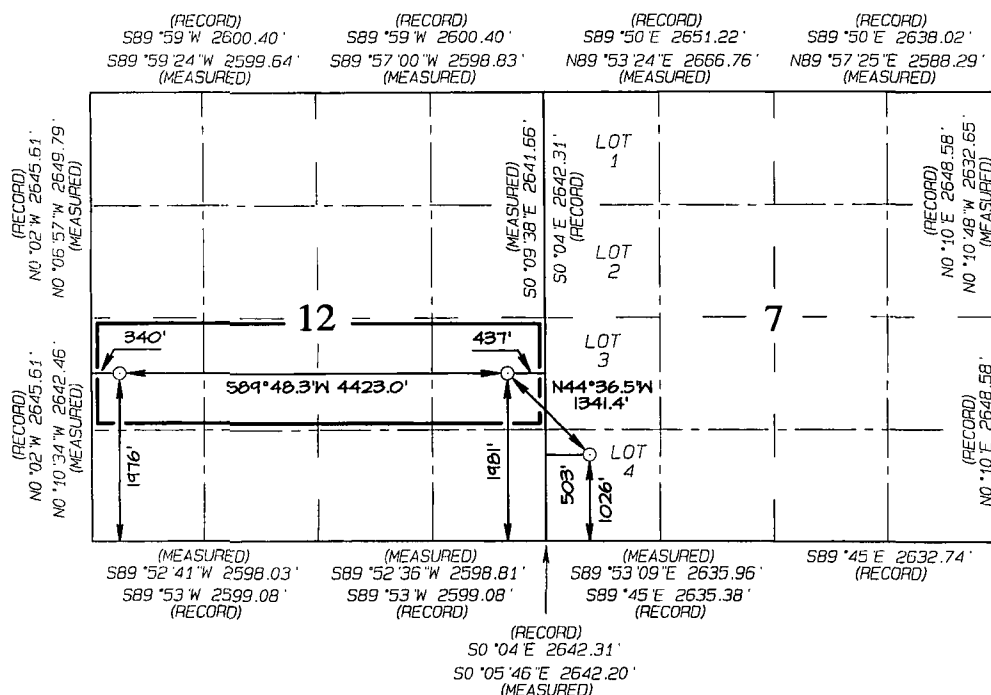
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	7	24N	9W	4	1026	SOUTH	503	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	12	24N	10W		1976	SOUTH	340	WEST	SAN. JUAN

12 Dedicated Acres	160.0 Acres N/2 S/2 - Section 12	13 Joint or Infill	14 Consolidation Code	15 Order No.	RCVD AUG 5 '13 OIL CONS. DIV.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of a mineral working interest or a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Signature Holly Hill Date 8/1/13

Holly Hill, Regulatory Analyst

Printed Name
holly.hill@encana.com

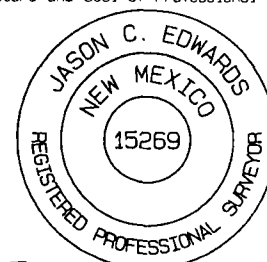
E-mail Address

18 SURVEYOR CERTIFICATION

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

Date Revised: JULY 18, 2013
Survey Date: OCTOBER 10, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

END-OF-LATERAL
1976' FSL 340' FWL
SECTION 12, T24N, R10W
LAT: 36.32669°N
LONG: 107.85515°W
DATUM: NAD1927

LAT: 36.32670 °N
LONG: 107.85577 °W
DATUM: NAD1983

POINT-OF-ENTRY
1981' FSL 437' FEL
SECTION 12, T24N, R10W
LAT: 36.32674 'N
LONG: 107.84013 'W
DATUM: NAD1927

LAT: 36.32675°N
LONG: 107.84075°W
DATUM: NAD1983

SURFACE LOCATION
1026' FSL 503' FWL
SECTION 7, T24N, R9W
LAT: 36.32411°N
LONG: 107.83694°W
DATUM: NAD1927

LAT: 36.32412 °N
LONG: 107.83755 °W
DATUM: NAD1983

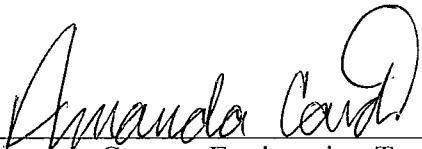
DEVIATION SURVEYS

MD (Feet)	Inclination (Degree)
558	0.4
802	0.3
1108	0.5
1292	0.1
1414	0.9
1727	0.1
2042	0.4
2357	0.3
2672	0.7
2987	0.5
3302	0.3
3617	0.3
3932	0.4
4311	1.1
4555	1.1

RCVD AUG 5 '13
OIL CONS. DIV.
DIST. 3

OPERATOR CERTIFICATION

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


Amanda Cavoto, Engineering Technologist

8/1/13

ACKNOWLEDGMENT

State of Colorado
City and County of Denver

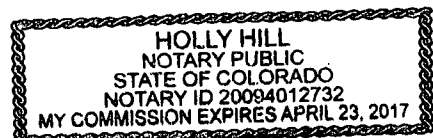
This instrument was acknowledged before me on this 1st day of August, 2013 by Amanda Cavoto as Attorney in Fact of Encana Oil & Gas (USA) Inc., on behalf of said corporation.

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

Notary Public: 

My Commission Expires: April 23, 2017

AV



Cathedral Energy Services
Survey Report

RCVD AUG 5 '13
OIL CONS. DIV.

DIST. 3

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito M07-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6926.0ft (Actec 950)
Site:	S7- T24N-R9W	MD Reference:	KB @ 6926.0ft (Actec 950)
Well:	Escrito M07-2409 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	San Juan County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	S7- T24N-R9W				
Site Position:		Northing:	1,939,904.96 ft	Latitude:	36.331320
From:	Lat/Long	Easting:	2,721,607.69 ft	Longitude:	-107.838390
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.00 °

Well	Escrito M07-2409 01H					
Well Position	+N/-S	0.0 ft	Northing:	1,937,283.96 ft	Latitude:	36.324120
	+E/-W	0.0 ft	Easting:	2,721,855.00 ft	Longitude:	-107.837550
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,910.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/24/2012	9.71	63.06	50,347

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	269.87	

Survey Program	Date 7/2/2013				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
137.0	10,955.0	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	
137.0	0.40	252.80	137.0	-0.1	-0.5	0.5	0.29	0.29	
194.0	0.50	252.00	194.0	-0.3	-0.9	0.9	0.18	0.18	
251.0	0.10	45.20	251.0	-0.3	-1.1	1.1	1.04	-0.70	
309.0	0.40	61.00	309.0	-0.2	-0.9	0.9	0.53	0.52	
368.0	0.40	91.20	368.0	-0.1	-0.5	0.5	0.35	0.00	
432.0	0.10	99.60	432.0	-0.1	-0.2	0.2	0.47	-0.47	
470.0	0.30	76.30	470.0	-0.1	-0.1	0.1	0.56	0.53	
558.0	0.40	66.90	558.0	0.1	0.4	-0.4	0.13	0.11	
619.0	0.40	87.60	619.0	0.2	0.8	-0.8	0.24	0.00	
680.0	0.40	128.90	680.0	0.1	1.2	-1.2	0.46	0.00	
741.0	0.30	106.10	741.0	-0.1	1.5	-1.5	0.28	-0.16	
802.0	0.30	133.80	802.0	-0.3	1.8	-1.8	0.24	0.00	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito M07-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6926.0ft (Actec 950)
Site:	S7- T24N-R9W	MD Reference:	KB @ 6926.0ft (Actec 950)
Well:	Escrito M07-2409 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
863.0	0.40	134.70	863.0	-0.5	2.1	-2.1	0.16	0.16	
924.0	0.50	116.40	924.0	-0.8	2.5	-2.5	0.29	0.16	
985.0	0.50	114.80	985.0	-1.0	2.9	-2.9	0.02	0.00	
1,047.0	0.40	125.50	1,047.0	-1.3	3.4	-3.4	0.21	-0.16	
1,108.0	0.50	142.00	1,108.0	-1.6	3.7	-3.7	0.27	0.16	
1,169.0	0.60	126.10	1,169.0	-2.0	4.1	-4.1	0.30	0.16	
1,230.0	0.80	133.80	1,230.0	-2.5	4.7	-4.7	0.36	0.33	
1,292.0	0.10	175.30	1,292.0	-2.8	5.0	-5.0	1.17	-1.13	
1,353.0	0.50	77.70	1,353.0	-2.8	5.3	-5.3	0.86	0.66	
1,414.0	0.90	344.90	1,414.0	-2.3	5.4	-5.4	1.72	0.66	
1,476.0	1.10	329.50	1,476.0	-1.3	5.0	-5.0	0.54	0.32	
1,539.0	0.70	254.60	1,538.9	-0.9	4.3	-4.3	1.81	-0.63	
1,602.0	0.60	222.20	1,601.9	-1.3	3.7	-3.7	0.60	-0.16	
1,664.0	0.60	206.40	1,663.9	-1.8	3.3	-3.3	0.27	0.00	
1,727.0	0.10	206.70	1,726.9	-2.1	3.2	-3.2	0.79	-0.79	
1,790.0	0.30	174.60	1,789.9	-2.4	3.2	-3.2	0.35	0.32	
1,853.0	0.30	214.90	1,852.9	-2.7	3.1	-3.1	0.33	0.00	
1,916.0	0.10	65.70	1,915.9	-2.8	3.0	-3.0	0.62	-0.32	
1,979.0	0.30	115.40	1,978.9	-2.8	3.2	-3.2	0.39	0.32	
2,042.0	0.40	157.60	2,041.9	-3.1	3.5	-3.5	0.43	0.16	
2,105.0	0.40	143.60	2,104.9	-3.5	3.7	-3.7	0.15	0.00	
2,167.0	0.40	154.00	2,166.9	-3.8	3.9	-3.9	0.12	0.00	
2,231.0	0.60	154.70	2,230.9	-4.3	4.1	-4.1	0.31	0.31	
2,294.0	0.30	132.60	2,293.9	-4.7	4.4	-4.4	0.54	-0.48	
2,357.0	0.30	145.70	2,356.9	-5.0	4.6	-4.6	0.11	0.00	
2,420.0	0.60	299.30	2,419.9	-5.0	4.4	-4.4	1.40	0.48	
2,483.0	0.70	294.40	2,482.9	-4.7	3.8	-3.8	0.18	0.16	
2,546.0	0.80	312.80	2,545.9	-4.2	3.1	-3.1	0.41	0.16	
2,609.0	0.70	313.60	2,608.9	-3.6	2.5	-2.5	0.16	-0.16	
2,672.0	0.70	285.20	2,671.9	-3.3	1.9	-1.9	0.55	0.00	
2,735.0	0.50	263.60	2,734.9	-3.2	1.2	-1.2	0.47	-0.32	
2,798.0	0.50	282.40	2,797.9	-3.2	0.7	-0.7	0.26	0.00	
2,861.0	0.70	308.10	2,860.9	-2.9	0.1	-0.1	0.52	0.32	
2,924.0	0.70	319.40	2,923.9	-2.3	-0.4	0.4	0.22	0.00	
2,987.0	0.50	325.50	2,986.9	-1.8	-0.8	0.9	0.33	-0.32	
3,050.0	0.50	311.80	3,049.9	-1.4	-1.2	1.2	0.19	0.00	
3,113.0	0.70	294.20	3,112.9	-1.1	-1.8	1.8	0.43	0.32	
3,176.0	0.60	286.40	3,175.9	-0.8	-2.4	2.4	0.21	-0.16	
3,239.0	0.50	247.90	3,238.9	-0.8	-3.0	3.0	0.59	-0.16	
3,302.0	0.30	279.60	3,301.9	-0.9	-3.4	3.4	0.46	-0.32	
3,365.0	0.40	1.40	3,364.9	-0.7	-3.6	3.6	0.74	0.16	
3,428.0	0.40	332.20	3,427.9	-0.2	-3.7	3.7	0.32	0.00	
3,491.0	0.20	203.20	3,490.9	-0.1	-3.8	3.8	0.87	-0.32	
3,554.0	0.20	159.90	3,553.9	-0.4	-3.8	3.8	0.23	0.00	
3,617.0	0.30	89.50	3,616.9	-0.5	-3.6	3.6	0.48	0.16	
3,680.0	0.30	100.60	3,679.9	-0.5	-3.3	3.3	0.09	0.00	
3,743.0	0.50	104.70	3,742.9	-0.6	-2.9	2.9	0.32	0.32	
3,806.0	0.50	92.60	3,805.9	-0.7	-2.3	2.3	0.17	0.00	
3,869.0	0.40	41.50	3,868.9	-0.5	-1.9	1.9	0.63	-0.16	
3,932.0	0.40	69.80	3,931.9	-0.3	-1.6	1.6	0.31	0.00	
3,995.0	0.50	103.60	3,994.9	-0.3	-1.1	1.1	0.44	0.16	
4,058.0	0.20	170.80	4,057.9	-0.4	-0.8	0.8	0.73	-0.48	
4,121.0	0.80	194.90	4,120.9	-1.0	-0.9	0.9	0.99	0.95	

Cathedral Energy Services

Survey Report

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Well:	Escrito M07-2409 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
4,184.0	1.00	185.30	4,183.9	-1.9	-1.1	1.1	0.40	0.32	
4,247.0	1.20	180.60	4,246.8	-3.1	-1.1	1.1	0.35	0.32	
4,311.0	1.10	170.10	4,310.8	-4.4	-1.0	1.0	0.36	-0.16	
4,374.0	1.20	159.40	4,373.8	-5.6	-0.7	0.7	0.38	0.16	
4,437.0	1.20	173.40	4,436.8	-6.9	-0.4	0.4	0.46	0.00	
4,500.0	1.30	177.30	4,499.8	-8.3	-0.3	0.3	0.21	0.16	
4,555.0	1.10	173.00	4,554.8	-9.4	-0.2	0.2	0.40	-0.36	
4,579.0	1.20	178.50	4,578.8	-9.9	-0.1	0.2	0.62	0.42	
4,611.0	1.10	282.40	4,610.8	-10.2	-0.4	0.5	5.66	-0.31	
4,642.0	4.00	325.80	4,641.7	-9.2	-1.3	1.3	10.61	9.35	
4,674.0	7.60	332.60	4,673.6	-6.4	-2.9	2.9	11.43	11.25	
4,705.0	10.80	335.60	4,704.2	-1.9	-5.1	5.1	10.43	10.32	
4,737.0	13.80	335.20	4,735.4	4.2	-7.9	7.9	9.38	9.37	
4,768.0	16.10	334.00	4,765.4	11.5	-11.3	11.3	7.49	7.42	
4,800.0	18.20	334.10	4,795.9	20.0	-15.5	15.4	6.56	6.56	
4,831.0	20.00	334.80	4,825.2	29.1	-19.8	19.8	5.85	5.81	
4,862.0	22.00	336.40	4,854.2	39.2	-24.4	24.3	6.71	6.45	
4,894.0	23.40	336.40	4,883.7	50.5	-29.4	29.3	4.37	4.37	
4,925.0	24.90	333.50	4,912.0	62.0	-34.8	34.6	6.17	4.84	
4,957.0	27.30	333.60	4,940.7	74.6	-41.0	40.9	7.50	7.50	
4,988.0	29.20	334.40	4,968.0	87.8	-47.4	47.2	6.25	6.13	
5,020.0	30.20	336.30	4,995.8	102.2	-54.1	53.8	4.29	3.12	
5,051.0	31.90	336.60	5,022.4	116.9	-60.4	60.2	5.51	5.48	
5,083.0	33.70	336.40	5,049.3	132.8	-67.4	67.1	5.64	5.62	
5,114.0	35.00	337.50	5,074.9	148.9	-74.2	73.9	4.65	4.19	
5,146.0	36.80	337.40	5,100.8	166.2	-81.4	81.0	5.63	5.62	
5,177.0	38.90	336.40	5,125.3	183.7	-88.9	88.4	7.06	6.77	
5,209.0	41.00	335.60	5,149.8	202.5	-97.2	96.8	6.76	6.56	
5,240.0	43.20	335.80	5,172.8	221.4	-105.8	105.3	7.11	7.10	
5,272.0	45.90	336.30	5,195.6	241.9	-114.9	114.3	8.51	8.44	
5,303.0	48.00	337.00	5,216.8	262.7	-123.9	123.3	6.97	6.77	
5,335.0	50.10	337.10	5,237.7	285.0	-133.3	132.6	6.57	6.56	
5,366.0	52.70	336.30	5,257.1	307.2	-142.9	142.2	8.63	8.39	
5,398.0	54.90	336.10	5,276.0	330.8	-153.3	152.5	6.89	6.87	
5,429.0	57.00	335.50	5,293.3	354.3	-163.8	163.0	6.96	6.77	
5,461.0	59.90	333.80	5,310.1	378.9	-175.5	174.6	10.13	9.06	
5,493.0	62.50	331.40	5,325.5	403.8	-188.4	187.5	10.45	8.12	
5,524.0	65.00	331.00	5,339.2	428.2	-201.8	200.8	8.15	8.06	
5,556.0	67.30	331.20	5,352.1	453.8	-215.9	214.9	7.21	7.19	
5,587.0	69.70	331.50	5,363.5	479.1	-229.8	228.7	7.79	7.74	
5,619.0	72.00	331.80	5,374.0	505.7	-244.1	243.0	7.24	7.19	
5,650.0	73.30	331.70	5,383.2	531.8	-258.1	256.9	4.20	4.19	
5,682.0	73.60	331.80	5,392.4	558.8	-272.6	271.4	0.98	0.94	
5,714.0	73.70	331.40	5,401.4	585.8	-287.3	285.9	1.24	0.31	
5,745.0	73.90	331.30	5,410.0	611.9	-301.5	300.1	0.72	0.65	
5,777.0	74.10	331.30	5,418.8	638.9	-316.3	314.8	0.62	0.62	
5,808.0	74.10	328.50	5,427.3	664.7	-331.2	329.7	8.69	0.00	
5,839.0	73.70	324.50	5,435.9	689.5	-347.7	346.1	12.46	-1.29	
5,871.0	74.50	324.00	5,444.7	714.5	-365.7	364.0	2.92	2.50	
5,902.0	73.30	320.80	5,453.3	738.1	-383.8	382.2	10.65	-3.87	
5,934.0	74.20	317.00	5,462.2	761.2	-404.0	402.3	11.74	2.81	
5,965.0	74.60	313.40	5,470.6	782.4	-425.1	423.3	11.26	1.29	
5,997.0	75.50	310.40	5,478.8	803.1	-448.1	446.2	9.48	2.81	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S7- T24N-R9W
Well: Escrito M07-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito M07-2409 01H
TVD Reference: KB @ 6926.0ft (Actec 950)
MD Reference: KB @ 6926.0ft (Actec 950)
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
6,028.0	77.00	308.00	5,486.2	822.1	-471.4	469.5	8.94	4.84	
6,059.0	77.90	305.40	5,493.0	840.2	-495.7	493.8	8.69	2.90	
6,091.0	78.60	302.80	5,499.5	857.7	-521.6	519.7	8.25	2.19	
6,123.0	78.90	299.40	5,505.7	873.9	-548.5	546.5	10.46	0.94	
6,154.0	79.50	295.80	5,511.5	888.0	-575.5	573.4	11.57	1.94	
6,185.0	80.10	292.30	5,517.0	900.5	-603.3	601.3	11.28	1.94	
6,207.0	81.10	289.80	5,520.6	908.3	-623.6	621.5	12.10	4.55	
6,247.0	82.40	287.10	5,526.3	920.8	-661.1	659.0	7.43	3.25	
6,278.0	83.80	284.10	5,530.1	929.1	-690.8	688.6	10.62	4.52	
6,310.0	84.80	282.00	5,533.3	936.3	-721.8	719.6	7.24	3.12	
6,341.0	86.00	280.70	5,535.7	942.3	-752.1	749.9	5.70	3.87	
6,373.0	86.60	278.10	5,537.8	947.5	-783.6	781.4	8.32	1.87	
6,405.0	87.10	275.20	5,539.6	951.2	-815.3	813.1	9.18	1.56	
6,436.0	87.90	272.70	5,540.9	953.4	-846.2	844.0	8.46	2.58	
6,468.0	89.20	270.90	5,541.7	954.4	-878.2	876.0	6.94	4.06	
6,500.0	89.10	270.80	5,542.2	954.9	-910.2	908.0	0.44	-0.31	
6,563.0	90.10	270.00	5,542.6	955.3	-973.2	971.0	2.03	1.59	
6,626.0	89.60	269.40	5,542.8	955.0	-1,036.2	1,034.0	1.24	-0.79	
6,689.0	90.90	269.00	5,542.5	954.1	-1,099.1	1,097.0	2.16	2.06	
6,752.0	91.20	268.70	5,541.4	952.8	-1,162.1	1,160.0	0.67	0.48	
6,814.0	90.60	270.60	5,540.4	952.4	-1,224.1	1,221.9	3.21	-0.97	
6,877.0	90.30	270.70	5,539.9	953.2	-1,287.1	1,284.9	0.50	-0.48	
6,940.0	90.00	270.20	5,539.7	953.7	-1,350.1	1,347.9	0.93	-0.48	
7,003.0	90.40	269.30	5,539.5	953.4	-1,413.1	1,410.9	1.56	0.63	
7,067.0	90.10	269.10	5,539.2	952.5	-1,477.1	1,474.9	0.56	-0.47	
7,130.0	90.40	269.20	5,539.0	951.6	-1,540.1	1,537.9	0.50	0.48	
7,193.0	90.80	269.90	5,538.3	951.1	-1,603.1	1,600.9	1.28	0.63	
7,256.0	90.80	270.30	5,537.4	951.2	-1,666.1	1,663.9	0.63	0.00	
7,320.0	90.20	270.30	5,536.9	951.5	-1,730.1	1,727.9	0.94	-0.94	
7,383.0	90.40	270.80	5,536.5	952.1	-1,793.1	1,790.9	0.85	0.32	
7,445.0	90.30	270.60	5,536.2	952.9	-1,855.1	1,852.9	0.36	-0.16	
7,508.0	89.60	270.80	5,536.2	953.6	-1,918.1	1,915.9	1.16	-1.11	
7,571.0	90.30	271.00	5,536.3	954.6	-1,981.0	1,978.9	1.16	1.11	
7,634.0	89.70	270.60	5,536.3	955.5	-2,044.0	2,041.9	1.14	-0.95	
7,697.0	90.40	270.50	5,536.2	956.1	-2,107.0	2,104.9	1.12	1.11	
7,760.0	90.40	270.00	5,535.8	956.4	-2,170.0	2,167.9	0.79	0.00	
7,823.0	90.40	269.20	5,535.3	955.9	-2,233.0	2,230.9	1.27	0.00	
7,886.0	90.00	269.40	5,535.1	955.2	-2,296.0	2,293.8	0.71	-0.63	
7,949.0	90.20	270.30	5,535.0	955.0	-2,359.0	2,356.8	1.46	0.32	
8,013.0	89.70	269.70	5,535.1	955.0	-2,423.0	2,420.8	1.22	-0.78	
8,076.0	90.00	268.60	5,535.2	954.1	-2,486.0	2,483.8	1.81	0.48	
8,139.0	89.50	268.40	5,535.5	952.4	-2,549.0	2,546.8	0.85	-0.79	
8,202.0	90.40	268.60	5,535.6	950.8	-2,612.0	2,609.8	1.46	1.43	
8,265.0	89.70	270.30	5,535.5	950.2	-2,675.0	2,672.8	2.92	-1.11	
8,328.0	89.70	270.10	5,535.8	950.4	-2,738.0	2,735.8	0.32	0.00	
8,390.0	90.20	269.80	5,535.9	950.3	-2,800.0	2,797.8	0.94	0.81	
8,453.0	89.70	269.20	5,535.9	949.8	-2,863.0	2,860.8	1.24	-0.79	
8,516.0	90.20	268.70	5,536.0	948.6	-2,925.9	2,923.8	1.12	0.79	
8,579.0	89.80	268.50	5,536.0	947.1	-2,988.9	2,986.8	0.71	-0.63	
8,642.0	90.70	268.30	5,535.7	945.3	-3,051.9	3,049.7	1.46	1.43	
8,705.0	89.90	268.60	5,535.4	943.6	-3,114.9	3,112.7	1.36	-1.27	
8,768.0	89.90	267.90	5,535.5	941.7	-3,177.8	3,175.7	1.11	0.00	
8,831.0	90.20	268.70	5,535.4	939.8	-3,240.8	3,238.7	1.36	0.48	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S7- T24N-R9W
Well: Escrito M07-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito M07-2409 01H
TVD Reference: KB @ 6926.0ft (Actec 950)
MD Reference: KB @ 6926.0ft (Actec 950)
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
8,894.0	90.20	270.10	5,535.2	939.2	-3,303.8	3,301.7	2.22	0.00	
8,957.0	89.70	269.80	5,535.3	939.1	-3,366.8	3,364.7	0.93	-0.79	
9,020.0	90.70	269.90	5,535.1	939.0	-3,429.8	3,427.7	1.60	1.59	
9,083.0	90.60	270.10	5,534.3	939.0	-3,492.8	3,490.7	0.35	-0.16	
9,146.0	90.00	269.50	5,534.0	938.7	-3,555.8	3,553.7	1.35	-0.95	
9,209.0	89.30	270.40	5,534.4	938.7	-3,618.8	3,616.7	1.81	-1.11	
9,272.0	89.90	270.20	5,534.8	939.0	-3,681.8	3,679.7	1.00	0.95	
9,335.0	90.90	271.50	5,534.4	939.9	-3,744.8	3,742.6	2.60	1.59	
9,398.0	90.00	271.50	5,533.9	941.6	-3,807.8	3,805.6	1.43	-1.43	
9,461.0	90.40	269.90	5,533.7	942.4	-3,870.8	3,868.6	2.62	0.63	
9,523.0	90.80	270.20	5,533.0	942.4	-3,932.8	3,930.6	0.81	0.65	
9,586.0	89.40	269.30	5,532.9	942.1	-3,995.8	3,993.6	2.64	-2.22	
9,650.0	89.70	269.00	5,533.4	941.2	-4,059.7	4,057.6	0.66	0.47	
9,713.0	89.70	269.20	5,533.8	940.2	-4,122.7	4,120.6	0.32	0.00	
9,776.0	90.80	267.90	5,533.5	938.6	-4,185.7	4,183.6	2.70	1.75	
9,839.0	90.90	269.30	5,532.6	937.1	-4,248.7	4,246.5	2.23	0.16	
9,902.0	90.80	270.10	5,531.6	936.7	-4,311.7	4,309.5	1.28	-0.16	
9,965.0	90.40	270.90	5,531.0	937.3	-4,374.7	4,372.5	1.42	-0.63	
10,028.0	89.90	270.90	5,530.8	938.3	-4,437.7	4,435.5	0.79	-0.79	
10,091.0	88.90	271.50	5,531.5	939.6	-4,500.6	4,498.5	1.85	-1.59	
10,154.0	89.50	271.00	5,532.3	941.0	-4,563.6	4,561.5	1.24	0.95	
10,217.0	91.00	271.00	5,532.1	942.1	-4,626.6	4,624.5	2.38	2.38	
10,280.0	90.10	271.50	5,531.5	943.5	-4,689.6	4,687.4	1.63	-1.43	
10,343.0	90.30	270.50	5,531.2	944.6	-4,752.6	4,750.4	1.62	0.32	
10,406.0	90.00	269.80	5,531.1	944.7	-4,815.6	4,813.4	1.21	-0.48	
10,469.0	89.60	269.70	5,531.3	944.4	-4,878.6	4,876.4	0.65	-0.63	
10,532.0	90.40	269.50	5,531.3	944.0	-4,941.6	4,939.4	1.31	1.27	
10,595.0	90.20	269.40	5,531.0	943.4	-5,004.6	5,002.4	0.35	-0.32	
10,658.0	90.50	268.80	5,530.6	942.4	-5,067.6	5,065.4	1.06	0.48	
10,721.0	90.10	269.60	5,530.2	941.5	-5,130.6	5,128.4	1.42	-0.63	
10,784.0	90.40	270.30	5,530.0	941.5	-5,193.6	5,191.4	1.21	0.48	
10,847.0	90.30	269.50	5,529.6	941.4	-5,256.6	5,254.4	1.28	-0.16	
10,910.0	90.60	269.20	5,529.1	940.6	-5,319.5	5,317.4	0.67	0.48	Last Cathedral Survey @ 10,910' MD
10,955.0	90.60	269.20	5,528.6	940.0	-5,364.5	5,362.4	0.00	0.00	Projection to Bit @ 10,955'

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito M07-2409 01H
Project:	San Juan County, NM	TVD Reference:	KB @ 6926.0ft (Actec 950)
Site:	S7- T24N-R9W	MD Reference:	KB @ 6926.0ft (Actec 950)
Well:	Escrito M07-2409 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Escrito M07-2409 01H P	0.00	0.00	5,537.2	953.8	-836.6	1,938,237.76	2,721,018.48	36.326740	-107.840390
- actual wellpath misses target center by 3.5ft at 6426.3ft MD (5540.5 TVD, 952.9 N, -836.5 E)									
- Point									
Escrito M07-2409 01H P	0.00	0.00	5,505.5	943.3	-5,375.8	1,938,227.53	2,716,479.26	36.326710	-107.855800
- actual wellpath misses target center by 25.9ft at 10955.0ft MD (5528.6 TVD, 940.0 N, -5364.5 E)									
- Point									
Escrito M07-2409 01H P	0.00	0.00	5,451.5	943.3	-5,375.8	1,938,227.53	2,716,479.26	36.326710	-107.855800
- actual wellpath misses target center by 78.0ft at 10955.0ft MD (5528.6 TVD, 940.0 N, -5364.5 E)									
- Point									
Escrito M07-2409 01H P	0.00	0.00	5,483.2	953.8	-836.6	1,938,237.76	2,721,018.48	36.326740	-107.840390
- actual wellpath misses target center by 57.3ft at 6423.9ft MD (5540.4 TVD, 952.7 N, -834.1 E)									
- Point									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
10,910.0	5,529.1	940.6	-5,319.5	Last Cathedral Survey @ 10,910' MD
10,955.0	5,528.6	940.0	-5,364.5	Projection to Bit @ 10,955'

Checked By: _____	Approved By: _____	Date: _____
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