

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

☒ AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35434	² Pool Code 5890	³ Pool Name BISTI LOWER - GALLUP
⁴ Property Code 39811	⁵ Property Name ESCRITO M07-2409	⁶ Well Number 02H
⁷ GRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁹ Elevation 6910'

¹⁰ Surface Location

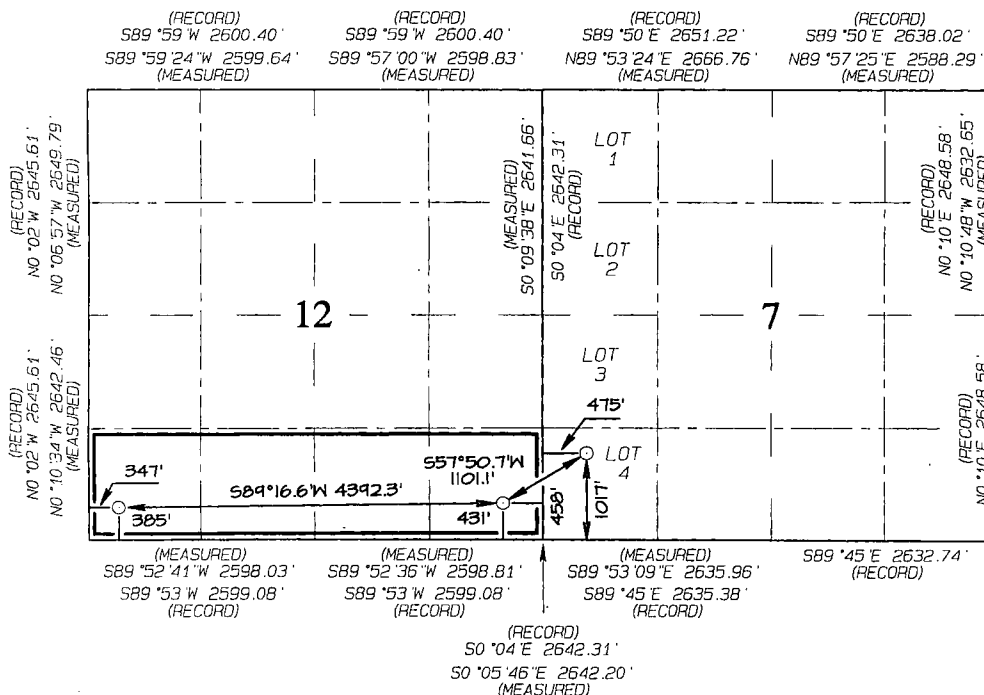
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	7	24N	9W	4	1017	SOUTH	475	WEST	SAN JUAN

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	12	24N	10W		385	SOUTH	347	WEST	SAN JUAN

¹² Dedicated Acres 160.0 Acres S/2 S/2 - Section 12	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD AUG 9 '13 OIL CONS. DIV. DIST. 3
--	-------------------------------	----------------------------------	--

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



END-OF-LATERAL
385' FSL 347' FWL
SECTION 12, T24N, R10W
LAT: 36.32232°N
LONG: 107.85511°W
DATUM: NAD1927

LAT: 36.32233°N
LONG: 107.85572°W
DATUM: NAD1983

POINT-OF-ENTRY
431' FSL 458' FEL
SECTION 12, T24N, R10W
LAT: 36.32248°N
LONG: 107.84020°W
DATUM: NAD1927

LAT: 36.32249°N
LONG: 107.84081°W
DATUM: NAD1983

SURFACE LOCATION
1017' FSL 475' FWL
SECTION 7, T24N, R9W
LAT: 36.32409°N
LONG: 107.83703°W
DATUM: NAD1927

LAT: 36.32410°N
LONG: 107.83765°W
DATUM: NAD1983

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 the right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Signature _____ Date _____
Brenda R. Linster, Regulatory Lead
Printed Name
brenda.linster@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: AUGUST 2, 2013
Survey Date: OCTOBER 10, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

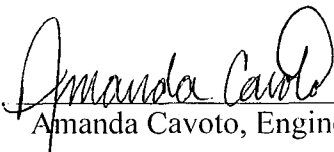
DEVIATION SURVEYS

MD (Feet)	Inclination (Degree)
546	0.7
791	0.7
1097	0.6
1281	0.7
1404	0.7
1718	0.8
2032	0.04
2347	0.4
2662	0.4
2976	0.6
3354	0.1
3607	0.3
3922	0.3
4300	1.1

RCVD AUG 9 '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

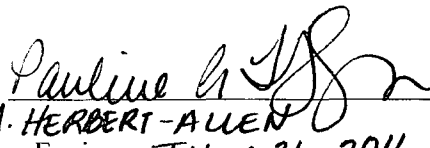
8/7/13

ACKNOWLEDGMENT

State of Colorado
City and County of Denver

This instrument was acknowledged before me on this 7th 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: 
PAULINE A. HERBERT-ALLEN
My Commission Expires: JUNE 26, 2016



Cathedral Energy Services

Survey Report

RCVD AUG 9 '13
OIL CONS. DIV.

DIST. 3

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito M07-2409 02H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6923.0usft (Original Well Elev)
Site:	S7- T24N-R9W	MD Reference:	WELL @ 6923.0usft (Original Well Elev)
Well:	Escrito M07-2409 02H	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:	1,939,901.08 usft	Latitude:	36° 19' 52.75 N
From:	Lat/Long	Easting:	2,721,602.25 usft	Longitude:	107° 50' 18.20 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.00 °

Well	Escrito M07-2409 02H					
Well Position	+N/-S	0.0 usft	Northing:	1,937,272.80 usft	Latitude:	36° 19' 26.76 N
	+E/-W	0.0 usft	Easting:	2,721,820.10 usft	Longitude:	107° 50' 15.54 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,910.0 usft	

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) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	269.87	

Survey Program	Date 6/16/2013				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
78.0	10,573.0	Survey #1 (Hz)	Geolink MWD	Geolink MWD	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
78.0	0.10	180.20	78.0	-0.1	0.0	0.0	0.13	0.13	
135.0	0.10	34.40	135.0	-0.1	0.0	0.0	0.34	0.00	
193.0	0.20	222.30	193.0	-0.1	0.0	0.0	0.52	0.17	
250.0	0.30	207.00	250.0	-0.3	-0.1	0.1	0.21	0.18	
309.0	0.40	231.80	309.0	-0.6	-0.4	0.4	0.30	0.17	
365.0	0.50	223.80	365.0	-0.9	-0.7	0.7	0.21	0.18	
429.0	0.60	207.00	429.0	-1.4	-1.0	1.0	0.29	0.16	
465.0	0.30	219.40	465.0	-1.6	-1.2	1.2	0.87	-0.83	
546.0	0.70	213.80	546.0	-2.2	-1.6	1.6	0.50	0.49	
608.0	0.90	211.00	608.0	-2.9	-2.1	2.1	0.33	0.32	
669.0	0.60	271.90	669.0	-3.3	-2.6	2.6	1.32	-0.49	
730.0	0.70	279.60	730.0	-3.3	-3.3	3.3	0.22	0.16	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito M07-2409 02H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6923.0usft (Original Well Elev)
Site:	S7- T24N-R9W	MD Reference:	WELL @ 6923.0usft (Original Well Elev)
Well:	Escrito M07-2409 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
791.0	0.70	285.00	791.0	-3.1	-4.0	4.1	0.11	0.00	
852.0	0.90	279.60	852.0	-2.9	-4.9	4.9	0.35	0.33	
913.0	1.10	271.10	913.0	-2.8	-5.9	5.9	0.41	0.33	
974.0	0.30	19.40	973.9	-2.7	-6.5	6.5	2.01	-1.31	
1,036.0	0.50	51.90	1,035.9	-2.3	-6.2	6.2	0.48	0.32	
1,097.0	0.60	67.00	1,096.9	-2.1	-5.7	5.7	0.29	0.16	
1,158.0	0.50	64.80	1,157.9	-1.8	-5.2	5.2	0.17	-0.16	
1,220.0	0.50	86.60	1,219.9	-1.7	-4.6	4.6	0.30	0.00	
1,281.0	0.70	76.30	1,280.9	-1.6	-4.0	4.0	0.37	0.33	
1,342.0	1.00	76.00	1,341.9	-1.4	-3.1	3.1	0.49	0.49	
1,404.0	0.70	18.20	1,403.9	-0.9	-2.5	2.5	1.39	-0.48	
1,465.0	0.60	4.60	1,464.9	-0.2	-2.4	2.4	0.30	-0.16	
1,528.0	0.60	352.60	1,527.9	0.5	-2.4	2.4	0.20	0.00	
1,591.0	0.40	322.70	1,590.9	1.0	-2.5	2.5	0.51	-0.32	
1,655.0	0.60	322.00	1,654.9	1.4	-2.9	2.9	0.31	0.31	
1,718.0	0.80	304.10	1,717.9	1.9	-3.5	3.5	0.47	0.32	
1,781.0	1.00	298.70	1,780.9	2.4	-4.3	4.3	0.34	0.32	
1,843.0	0.30	279.60	1,842.9	2.7	-4.9	4.9	1.17	-1.13	
1,906.0	0.60	261.30	1,905.9	2.7	-5.4	5.4	0.52	0.48	
1,969.0	0.30	249.90	1,968.9	2.6	-5.9	5.9	0.49	-0.48	
2,032.0	0.04	99.60	2,031.9	2.5	-6.0	6.0	0.53	-0.41	
2,095.0	0.30	341.70	2,094.9	2.7	-6.1	6.1	0.51	0.41	
2,158.0	0.20	291.70	2,157.9	2.9	-6.2	6.2	0.36	-0.16	
2,221.0	0.20	311.40	2,220.9	3.0	-6.4	6.4	0.11	0.00	
2,284.0	0.30	283.30	2,283.9	3.1	-6.7	6.6	0.25	0.16	
2,347.0	0.40	279.60	2,346.9	3.2	-7.0	7.0	0.16	0.16	
2,410.0	0.50	264.40	2,409.9	3.2	-7.5	7.5	0.25	0.16	
2,473.0	0.40	271.70	2,472.9	3.1	-8.0	8.0	0.18	-0.16	
2,536.0	0.30	244.80	2,535.9	3.1	-8.4	8.4	0.30	-0.16	
2,599.0	0.50	236.00	2,598.9	2.9	-8.8	8.8	0.33	0.32	
2,662.0	0.40	234.00	2,661.9	2.6	-9.2	9.2	0.16	-0.16	
2,725.0	0.50	241.70	2,724.9	2.3	-9.6	9.6	0.19	0.16	
2,788.0	0.40	227.50	2,787.9	2.0	-10.0	10.0	0.24	-0.16	
2,850.0	0.60	225.10	2,849.9	1.7	-10.4	10.4	0.32	0.32	
2,913.0	0.50	235.20	2,912.9	1.3	-10.8	10.8	0.22	-0.16	
2,976.0	0.60	233.00	2,975.9	0.9	-11.3	11.3	0.16	0.16	
3,039.0	0.60	242.40	3,038.9	0.6	-11.9	11.9	0.16	0.00	
3,102.0	0.60	253.10	3,101.9	0.3	-12.5	12.5	0.18	0.00	
3,165.0	0.70	250.80	3,164.9	0.1	-13.2	13.2	0.16	0.16	
3,228.0	0.80	246.90	3,227.8	-0.2	-13.9	13.9	0.18	0.16	
3,291.0	0.80	254.40	3,290.8	-0.5	-14.8	14.8	0.17	0.00	
3,354.0	0.10	128.20	3,353.8	-0.6	-15.1	15.1	1.37	-1.11	
3,418.0	0.30	135.20	3,417.8	-0.8	-15.0	15.0	0.31	0.31	
3,481.0	0.40	113.80	3,480.8	-1.0	-14.7	14.7	0.26	0.16	
3,544.0	0.40	130.20	3,543.8	-1.2	-14.3	14.3	0.18	0.00	
3,607.0	0.30	135.80	3,606.8	-1.5	-14.0	14.0	0.17	-0.16	
3,670.0	0.20	137.10	3,669.8	-1.7	-13.8	13.8	0.16	-0.16	
3,733.0	0.10	122.80	3,732.8	-1.8	-13.7	13.7	0.17	-0.16	
3,796.0	0.20	92.10	3,795.8	-1.8	-13.5	13.6	0.20	0.16	
3,859.0	0.10	75.20	3,858.8	-1.8	-13.4	13.4	0.17	-0.16	
3,922.0	0.30	198.70	3,921.8	-2.0	-13.4	13.4	0.58	0.32	
3,985.0	0.40	164.00	3,984.8	-2.3	-13.4	13.4	0.36	0.16	
4,048.0	0.60	178.30	4,047.8	-2.9	-13.3	13.3	0.37	0.32	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito M07-2409 02H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6923.0usft (Original Well Elev)
Site:	S7- T24N-R9W	MD Reference:	WELL @ 6923.0usft (Original Well Elev)
Well:	Escrito M07-2409 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
4,111.0	0.80	189.70	4,110.8	-3.6	-13.4	13.4	0.39	0.32	
4,174.0	0.90	164.30	4,173.8	-4.6	-13.3	13.3	0.61	0.16	
4,237.0	1.00	155.20	4,236.8	-5.5	-12.9	13.0	0.29	0.16	
4,300.0	1.10	157.60	4,299.8	-6.6	-12.5	12.5	0.17	0.16	
4,350.0	1.20	150.60	4,349.8	-7.5	-12.0	12.1	0.34	0.20	
4,420.0	3.40	210.10	4,419.7	-9.9	-12.7	12.7	4.25	3.14	
4,452.0	7.80	222.30	4,451.6	-12.3	-14.7	14.7	14.17	13.75	
4,483.0	10.60	226.00	4,482.2	-15.9	-18.1	18.2	9.23	9.03	
4,514.0	13.20	226.70	4,512.5	-20.3	-22.8	22.8	8.40	8.39	
4,546.0	15.70	225.00	4,543.5	-25.9	-28.5	28.5	7.92	7.81	
4,577.0	18.40	218.60	4,573.1	-32.7	-34.5	34.6	10.59	8.71	
4,609.0	21.10	214.10	4,603.2	-41.4	-40.9	41.0	9.68	8.44	
4,641.0	22.90	210.90	4,632.9	-51.5	-47.3	47.4	6.76	5.63	
4,672.0	24.10	209.60	4,661.3	-62.2	-53.5	53.7	4.22	3.87	
4,704.0	25.40	210.00	4,690.4	-73.8	-60.2	60.4	4.10	4.06	
4,735.0	27.20	211.30	4,718.2	-85.6	-67.2	67.4	6.10	5.81	
4,767.0	28.30	211.50	4,746.5	-98.3	-75.0	75.2	3.45	3.44	
4,798.0	29.90	210.50	4,773.6	-111.2	-82.7	83.0	5.39	5.16	
4,830.0	32.10	209.40	4,801.0	-125.5	-90.9	91.2	7.10	6.88	
4,861.0	33.40	208.40	4,827.1	-140.2	-99.0	99.4	4.54	4.19	
4,893.0	35.60	210.30	4,853.5	-156.0	-107.9	108.3	7.65	6.88	
4,924.0	37.90	212.00	4,878.3	-171.9	-117.5	117.9	8.11	7.42	
4,987.0	37.70	211.00	4,928.1	-204.8	-137.7	138.2	1.02	-0.32	
5,051.0	39.30	212.00	4,978.2	-238.8	-158.5	159.1	2.68	2.50	
5,113.0	39.20	212.00	5,026.2	-272.0	-179.3	179.9	0.16	-0.16	
5,176.0	38.70	211.30	5,075.2	-305.7	-200.1	200.8	1.06	-0.79	
5,239.0	37.80	213.90	5,124.7	-338.6	-221.1	221.9	2.93	-1.43	
5,302.0	39.50	216.20	5,173.9	-370.8	-243.7	244.5	3.53	2.70	
5,365.0	40.10	216.90	5,222.3	-403.2	-267.7	268.6	1.19	0.95	
5,396.0	39.90	215.20	5,246.0	-419.3	-279.5	280.4	3.58	-0.65	
5,428.0	40.50	219.40	5,270.5	-435.7	-292.0	293.0	8.68	1.88	
5,459.0	41.10	226.20	5,293.9	-450.5	-305.7	306.7	14.46	1.94	
5,491.0	42.20	232.60	5,317.9	-464.4	-321.9	322.9	13.72	3.44	
5,522.0	44.90	238.20	5,340.3	-476.5	-339.4	340.5	15.18	8.71	
5,554.0	47.40	241.00	5,362.5	-488.1	-359.3	360.4	10.04	7.81	
5,585.0	49.90	245.10	5,383.0	-498.6	-380.1	381.2	12.79	8.06	
5,617.0	52.00	249.30	5,403.1	-508.3	-403.0	404.1	12.12	6.56	
5,648.0	55.50	252.70	5,421.5	-516.4	-426.6	427.8	14.34	11.29	
5,680.0	59.10	255.60	5,438.8	-523.7	-452.5	453.7	13.59	11.25	
5,712.0	63.20	258.80	5,454.2	-529.9	-479.8	481.0	15.52	12.81	
5,743.0	66.40	261.90	5,467.4	-534.6	-507.5	508.7	13.73	10.32	
5,774.0	70.20	263.50	5,478.9	-538.3	-536.1	537.3	13.16	12.26	
5,806.0	72.90	264.20	5,489.0	-541.5	-566.2	567.5	8.69	8.44	
5,850.0	77.70	265.10	5,500.2	-545.5	-608.6	609.8	11.09	10.91	
5,863.0	78.30	265.50	5,502.9	-546.5	-621.3	622.5	5.51	4.62	
5,894.0	78.70	265.70	5,509.0	-548.8	-651.6	652.8	1.44	1.29	
5,926.0	81.30	264.50	5,514.6	-551.5	-682.9	684.2	8.92	8.13	
5,957.0	85.00	262.60	5,518.3	-555.0	-713.5	714.8	13.40	11.94	
5,989.0	87.60	262.10	5,520.4	-559.2	-745.2	746.4	8.27	8.13	
6,052.0	90.60	261.60	5,521.3	-568.2	-807.5	808.8	4.83	4.76	
6,115.0	91.30	261.50	5,520.3	-577.4	-869.8	871.1	1.12	1.11	
6,178.0	89.60	262.80	5,519.8	-586.0	-932.2	933.6	3.40	-2.70	
6,241.0	89.70	262.30	5,520.2	-594.2	-994.7	996.0	0.81	0.16	
6,304.0	90.40	262.10	5,520.1	-602.8	-1,057.1	1,058.5	1.16	1.11	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S7- T24N-R9W
Well: Escrito M07-2409 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito M07-2409 02H
TVD Reference: WELL @ 6923.0usft (Original Well Elev)
MD Reference: WELL @ 6923.0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
6,367.0	91.40	263.00	5,519.1	-610.9	-1,119.6	1,121.0	2.14	1.59	
6,430.0	90.70	265.80	5,518.0	-617.1	-1,182.3	1,183.6	4.58	-1.11	
6,493.0	91.20	266.90	5,516.9	-621.1	-1,245.1	1,246.5	1.92	0.79	
6,555.0	90.50	268.80	5,516.0	-623.4	-1,307.1	1,308.5	3.27	-1.13	
6,618.0	90.50	270.80	5,515.5	-623.6	-1,370.1	1,371.5	3.17	0.00	
6,681.0	89.70	270.20	5,515.4	-623.1	-1,433.1	1,434.5	1.59	-1.27	
6,744.0	90.00	269.60	5,515.5	-623.2	-1,496.1	1,497.5	1.06	0.48	
6,807.0	90.30	268.60	5,515.4	-624.2	-1,559.0	1,560.5	1.66	0.48	
6,870.0	91.10	268.20	5,514.6	-625.9	-1,622.0	1,623.4	1.42	1.27	
6,933.0	90.80	268.50	5,513.6	-627.7	-1,685.0	1,686.4	0.67	-0.48	
6,996.0	91.10	268.20	5,512.5	-629.6	-1,747.9	1,749.4	0.67	0.48	
7,060.0	90.80	269.30	5,511.4	-631.0	-1,811.9	1,813.3	1.78	-0.47	
7,123.0	90.90	268.70	5,510.5	-632.1	-1,874.9	1,876.3	0.97	0.16	
7,186.0	91.20	268.40	5,509.4	-633.6	-1,937.9	1,939.3	0.67	0.48	
7,248.0	90.80	269.90	5,508.3	-634.6	-1,999.9	2,001.3	2.50	-0.65	
7,311.0	91.20	269.20	5,507.2	-635.1	-2,062.9	2,064.3	1.28	0.63	
7,374.0	90.60	270.90	5,506.2	-635.0	-2,125.8	2,127.3	2.86	-0.95	
7,437.0	90.10	271.70	5,505.8	-633.6	-2,188.8	2,190.3	1.50	-0.79	
7,501.0	91.00	271.80	5,505.2	-631.6	-2,252.8	2,254.2	1.41	1.41	
7,564.0	90.10	271.60	5,504.6	-629.8	-2,315.8	2,317.2	1.46	-1.43	
7,627.0	90.70	271.80	5,504.1	-627.9	-2,378.7	2,380.1	1.00	0.95	
7,690.0	90.10	270.80	5,503.7	-626.5	-2,441.7	2,443.1	1.85	-0.95	
7,753.0	90.30	270.80	5,503.5	-625.6	-2,504.7	2,506.1	0.32	0.32	
7,816.0	91.10	270.40	5,502.7	-624.9	-2,567.7	2,569.1	1.42	1.27	
7,879.0	90.60	270.10	5,501.8	-624.6	-2,630.7	2,632.1	0.93	-0.79	
7,942.0	89.60	268.80	5,501.7	-625.2	-2,693.7	2,695.1	2.60	-1.59	
8,005.0	90.10	269.00	5,501.8	-626.5	-2,756.7	2,758.1	0.85	0.79	
8,068.0	91.00	268.90	5,501.2	-627.6	-2,819.7	2,821.1	1.44	1.43	
8,131.0	90.50	268.10	5,500.4	-629.3	-2,882.6	2,884.0	1.50	-0.79	
8,194.0	89.10	268.70	5,500.6	-631.0	-2,945.6	2,947.0	2.42	-2.22	
8,257.0	89.70	268.40	5,501.3	-632.6	-3,008.6	3,010.0	1.06	0.95	
8,320.0	91.10	269.70	5,500.8	-633.7	-3,071.6	3,073.0	3.03	2.22	
8,383.0	90.20	270.90	5,500.1	-633.3	-3,134.6	3,136.0	2.38	-1.43	
8,446.0	90.60	270.60	5,499.7	-632.5	-3,197.6	3,199.0	0.79	0.63	
8,509.0	90.00	270.30	5,499.4	-632.0	-3,260.5	3,262.0	1.06	-0.95	
8,572.0	89.40	269.80	5,499.7	-632.0	-3,323.5	3,325.0	1.24	-0.95	
8,635.0	90.00	270.40	5,500.0	-631.8	-3,386.5	3,388.0	1.35	0.95	
8,698.0	89.90	271.50	5,500.1	-630.8	-3,449.5	3,451.0	1.75	-0.16	
8,761.0	88.20	270.10	5,501.1	-629.9	-3,512.5	3,513.9	3.50	-2.70	
8,824.0	88.10	269.60	5,503.2	-630.1	-3,575.5	3,576.9	0.81	-0.16	
8,887.0	89.90	269.00	5,504.3	-630.9	-3,638.5	3,639.9	3.01	2.86	
8,950.0	90.20	269.60	5,504.2	-631.6	-3,701.5	3,702.9	1.06	0.48	
9,013.0	90.80	268.60	5,503.6	-632.6	-3,764.4	3,765.9	1.85	0.95	
9,076.0	91.40	268.70	5,502.4	-634.1	-3,827.4	3,828.8	0.97	0.95	
9,140.0	91.20	269.30	5,501.0	-635.2	-3,891.4	3,892.8	0.99	-0.31	
9,203.0	90.20	269.10	5,500.2	-636.1	-3,954.4	3,955.8	1.62	-1.59	
9,265.0	90.30	268.80	5,499.9	-637.2	-4,016.4	4,017.8	0.51	0.16	
9,327.0	91.10	268.60	5,499.2	-638.6	-4,078.4	4,079.8	1.33	1.29	
9,391.0	91.00	269.10	5,498.0	-639.9	-4,142.3	4,143.8	0.80	-0.16	
9,454.0	90.20	270.10	5,497.4	-640.4	-4,205.3	4,206.8	2.03	-1.27	
9,517.0	90.60	270.00	5,496.9	-640.3	-4,268.3	4,269.8	0.65	0.63	
9,580.0	89.80	269.80	5,496.7	-640.4	-4,331.3	4,332.8	1.31	-1.27	
9,643.0	90.30	269.60	5,496.6	-640.7	-4,394.3	4,395.8	0.85	0.79	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito M07-2409 02H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6923.0usft (Original Well Elev)
Site:	S7- T24N-R9W	MD Reference:	WELL @ 6923.0usft (Original Well Elev)
Well:	Escrito M07-2409 02H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
9,706.0	90.50	269.40	5,496.2	-641.3	-4,457.3	4,458.8	0.45	0.32	
9,769.0	91.40	269.40	5,495.2	-642.0	-4,520.3	4,521.7	1.43	1.43	
9,832.0	90.20	270.10	5,494.3	-642.2	-4,583.3	4,584.7	2.21	-1.90	
9,895.0	90.50	269.50	5,493.9	-642.4	-4,646.3	4,647.7	1.06	0.48	
9,958.0	90.00	269.90	5,493.6	-642.8	-4,709.3	4,710.7	1.02	-0.79	
10,021.0	90.30	269.30	5,493.5	-643.2	-4,772.3	4,773.7	1.06	0.48	
10,084.0	90.30	270.70	5,493.1	-643.2	-4,835.3	4,836.7	2.22	0.00	
10,147.0	90.60	271.30	5,492.6	-642.1	-4,898.3	4,899.7	1.06	0.48	
10,210.0	89.30	270.60	5,492.7	-641.1	-4,961.3	4,962.7	2.34	-2.06	
10,273.0	89.70	270.20	5,493.2	-640.6	-5,024.3	5,025.7	0.90	0.63	
10,336.0	90.20	270.10	5,493.3	-640.5	-5,087.3	5,088.7	0.81	0.79	
10,399.0	90.30	270.00	5,493.0	-640.4	-5,150.3	5,151.7	0.22	0.16	
10,462.0	90.80	269.60	5,492.4	-640.6	-5,213.3	5,214.7	1.02	0.79	
10,528.0	91.10	269.60	5,491.3	-641.1	-5,279.2	5,280.7	0.45	0.45	Last Cathedral Survey @ 10528' MD
10,573.0	91.10	269.60	5,490.4	-641.4	-5,324.2	5,325.7	0.00	0.00	Projection to bit @ 10573' MD

Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Escrito M07-2409 02H P	- actual wellpath misses target center by 21.6usft at 10573.0usft MD (5490.4 TVD, -641.4 N, -5324.2 E)	- Point	0.00	0.00	5,483.7	-629.3	-5,340.7	1,936,643.78	2,716,479.35	36° 19' 20.53 N	107° 51' 20.81 W
Escrito M07-2409 02H P	- actual wellpath misses target center by 50.6usft at 6056.2usft MD (5521.3 TVD, -568.8 N, -811.7 E)	- Point	0.00	0.00	5,519.4	-618.8	-804.2	1,936,654.00	2,721,015.87	36° 19' 20.64 N	107° 50' 25.37 W
Escrito M07-2409 02H P	- actual wellpath misses target center by 20.7usft at 10573.0usft MD (5490.4 TVD, -641.4 N, -5324.2 E)	- Point	0.00	0.00	5,487.7	-629.3	-5,340.7	1,936,643.78	2,716,479.35	36° 19' 20.53 N	107° 51' 20.81 W
Escrito M07-2409 02H P	- actual wellpath misses target center by 283.2usft at 10573.0usft MD (5490.4 TVD, -641.4 N, -5324.2 E)	- Point	0.00	0.00	5,422.6	-367.2	-5,343.6	1,936,905.88	2,716,476.47	36° 19' 23.12 N	107° 51' 20.84 W
Escrito M07-2409 02H P	- actual wellpath misses target center by 219.3usft at 6017.7usft MD (5521.2 TVD, -563.2 N, -773.6 E)	- Point	0.00	0.00	5,454.2	-356.7	-804.2	1,936,916.10	2,721,015.89	36° 19' 23.23 N	107° 50' 25.37 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	Comment
10,528.0	5,491.3	+N/-S (usft) -641.1 +E/-W (usft) -5,279.2	Last Cathedral Survey @ 10528' MD
10,573.0	5,490.4	+N/-S (usft) -641.4 +E/-W (usft) -5,324.2	Projection to bit @ 10573' MD

Checked By: _____ Approved By: _____ Date: _____