

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT
☒ As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35486	*Pool Code 5890	*Pool Name BISTI LOWER-GALLUP
*Property Code 313128	*Property Name ESCRITO L18-2409	*Well Number 01H
*GRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.	*Elevation 6977'

¹⁰ Surface Location

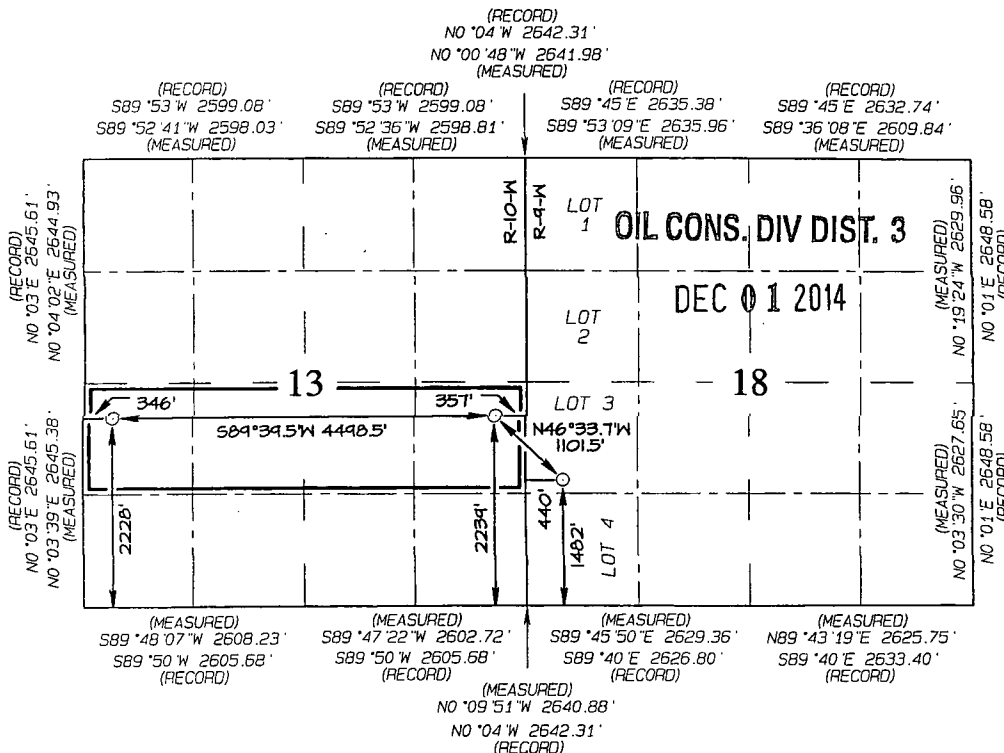
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	18	24N	9W	3	1482	SOUTH	440	WEST	SAN JUAN

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
L	13	24N	10W		2228	SOUTH	346	WEST	SAN JUAN

¹² Dedicated Acres 160.00 Acres N/2 S/2 - Section 13	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Jessica Gregg Date: 11/25/14

Printed Name: Jessica Gregg

E-mail Address: Jessica.Gregg@encana.com

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: OCTOBER 23, 2014
Date of Survey: APRIL 24, 2012

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
Certificate Number 15269

AV

16
Ke

DEVIATION SURVEYS
Escrito L18-2409 01H
30-045-35486

CONFIDENTIAL

MD (Feet)	Inclination (Degree)
306	0.50
600	0.30
917	0.30
1234	0.10
1551	0.20
1867	0.20
2183	0.90
2499	1.10
2815	0.30
3098	0.20
3414	3.80

OIL CONS. DIV DIST. 3

DEC 01 2014

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, Operations Technician

11/25/14

Date

ACKNOWLEDGMENT

State of Colorado
City and County of Denver

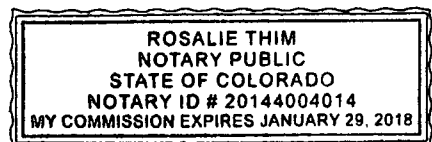
This instrument was acknowledged before me on this *25th* day of *November*, 2014 by Cristi Bauer as Operations Technician of Encana Oil & Gas (USA) Inc., authorized agent for Encana Oil & Gas (USA) Inc., on behalf of said corporation.

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

Notary Public:

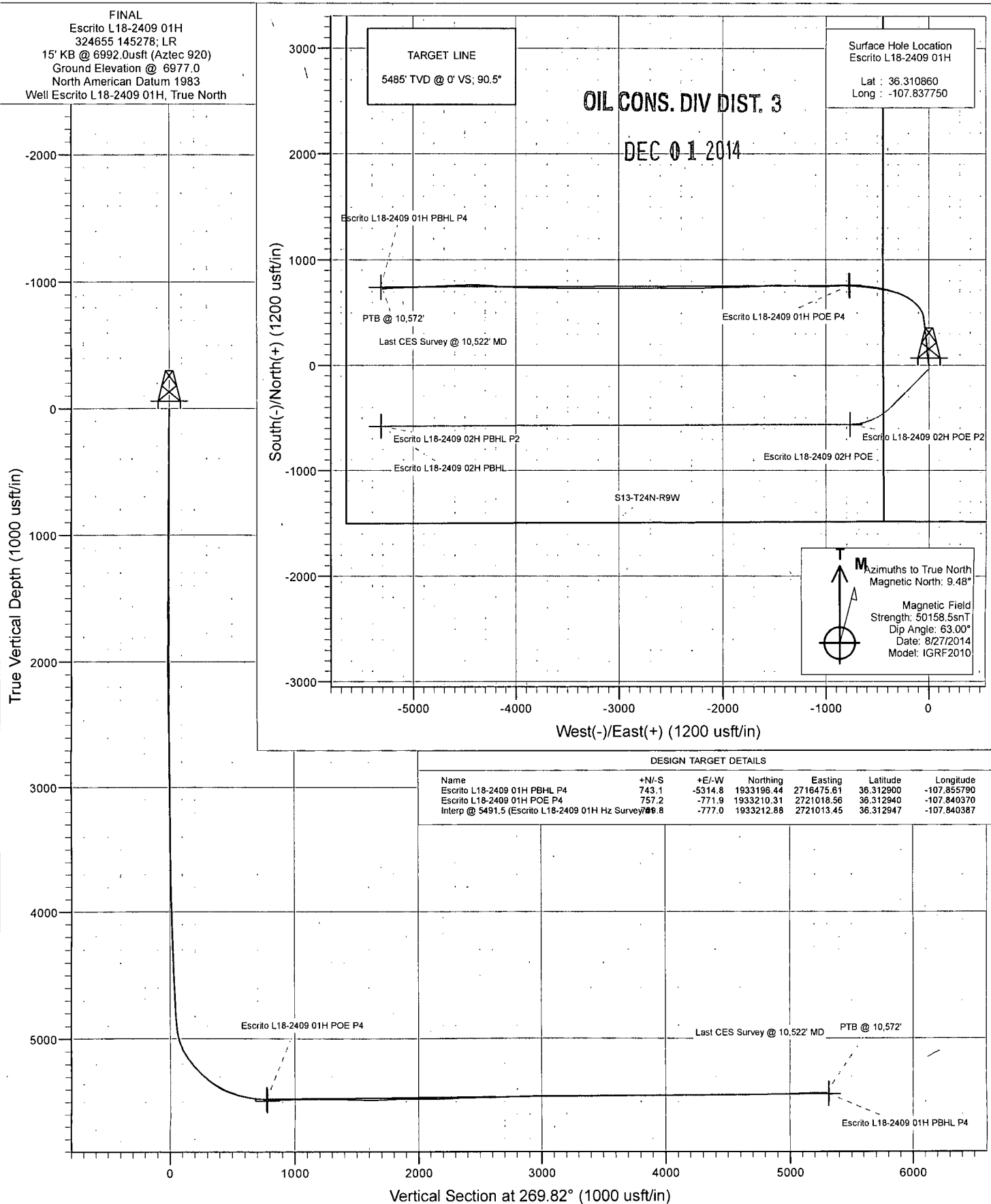
Rosalie Thim

My Commission Expires: *1/29/18*



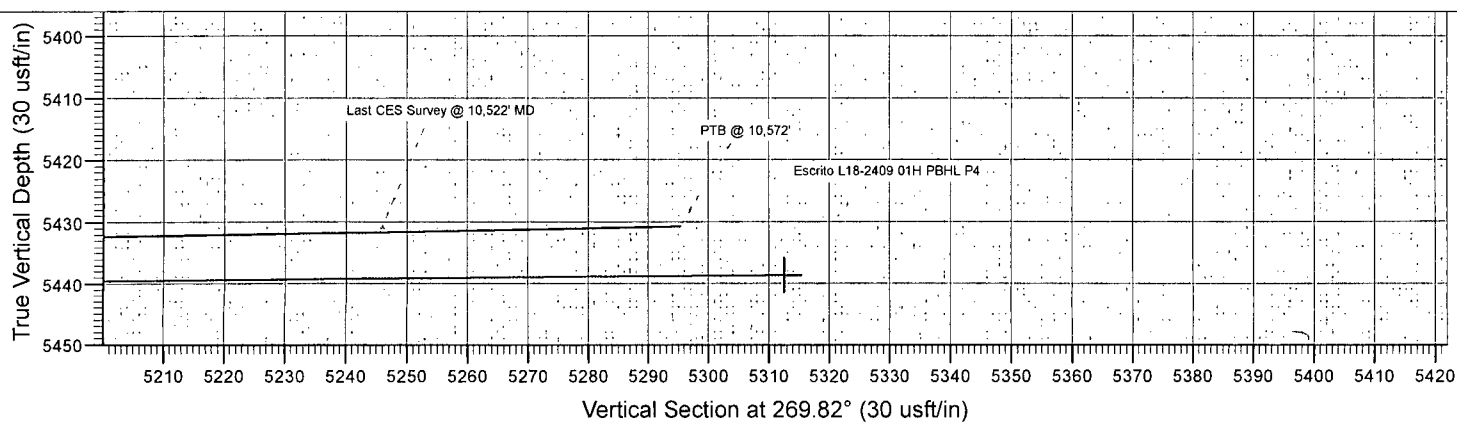
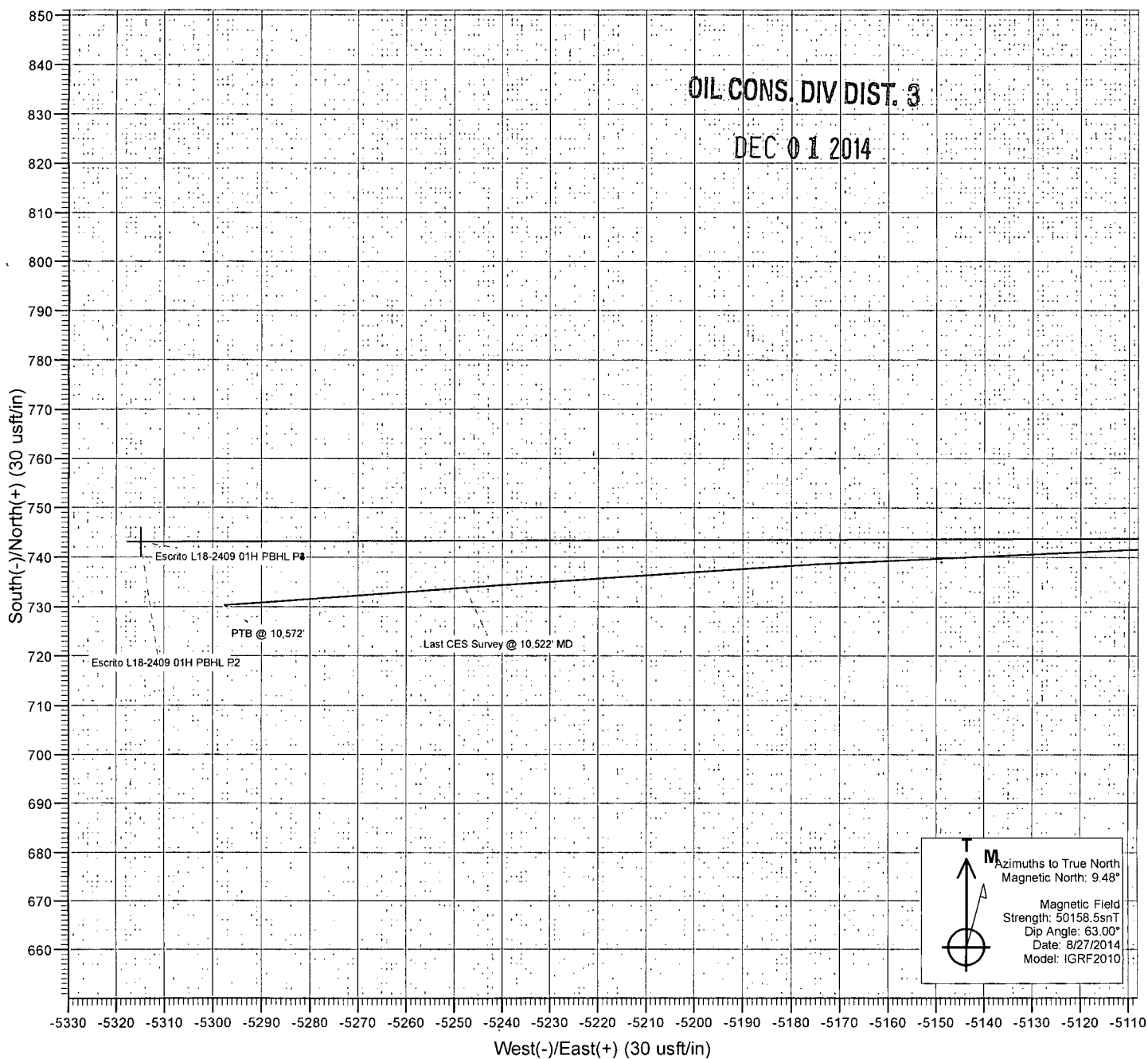


Project: San Juan County, NM
 Site: S18-T24N-R9W (Escrito)
 Well: Escrito L18-2409 01H
 Wellbore: Hz
 Design: FINAL





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Site: S18-T24N-R9W (Escrito)
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Wellbore: Hz
Design: FINAL



Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S18-T24N-R9W (Escrito)
Well: Escrito L18-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito L18-2409 01H
TVD Reference: 15' KB @ 6992.0usft (Aztec 920)
MD Reference: 15' KB @ 6992.0usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

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

Site: S18-T24N-R9W (Escrito)
Site Position: Northing: 1,932,453.09 usft Latitude: 36.310860
From: Lat/Long Easting: 2,721,790.42 usft Longitude: -107.837750
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.00 °

Well: Escrito L18-2409 01H
Well Position: +N/-S 0.0 usft Northing: 1,932,453.09 usft Latitude: 36.310860
+E/-W 0.0 usft Easting: 2,721,790.42 usft Longitude: -107.837750
Position Uncertainty: 0.0 usft Wellhead Elevation: usft Ground Level: 6,977.0 usft

Wellbore: Hz
Magnetics: Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
IGRF2010 8/27/2014 9.49 63.00 50,159

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 0.0 269.82

Survey Program: Date 9/11/2014
From (usft) To (usft) Survey (Wellbore) Tool Name Description
117.0 10,572.0 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	
117.0	0.70	42.90	117.0	0.5	0.5	-0.5	0.60	0.60	
180.0	0.80	43.10	180.0	1.1	1.0	-1.1	0.16	0.16	
243.0	0.70	38.00	243.0	1.8	1.6	-1.6	0.19	-0.16	
306.0	0.50	38.70	306.0	2.3	2.0	-2.0	0.32	-0.32	
370.0	0.40	40.20	370.0	2.7	2.3	-2.3	0.16	-0.16	
433.0	0.60	58.60	433.0	3.0	2.7	-2.7	0.40	0.32	
460.0	0.40	73.30	460.0	3.1	2.9	-3.0	0.87	-0.74	
537.0	0.20	82.10	537.0	3.2	3.3	-3.3	0.27	-0.26	
600.0	0.30	94.00	600.0	3.2	3.6	-3.6	0.18	0.16	
664.0	0.40	87.50	664.0	3.2	4.0	-4.0	0.17	0.16	
727.0	0.40	61.30	727.0	3.3	4.4	-4.4	0.29	0.00	
790.0	0.40	61.20	790.0	3.5	4.8	-4.8	0.00	0.00	

Survey Report

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Design: FINAL

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MD Reference: 15' KB @ 6992.0usft (Aztec 920)
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
854.0	0.30	73.60	854.0	3.7	5.2	-5.2	0.20	-0.16	
917.0	0.30	80.70	917.0	3.8	5.5	-5.5	0.06	0.00	
980.0	0.20	51.40	980.0	3.8	5.7	-5.7	0.25	-0.16	
1,044.0	0.10	99.50	1,044.0	3.9	5.9	-5.9	0.24	-0.16	
1,107.0	0.10	294.30	1,107.0	3.9	5.9	-5.9	0.31	0.00	
1,171.0	0.10	19.10	1,171.0	4.0	5.8	-5.9	0.21	0.00	
1,234.0	0.10	117.30	1,234.0	4.0	5.9	-5.9	0.24	0.00	
1,298.0	0.20	114.10	1,298.0	4.0	6.1	-6.1	0.16	0.16	
1,361.0	0.10	128.70	1,361.0	3.9	6.2	-6.2	0.17	-0.16	
1,424.0	0.20	87.00	1,424.0	3.8	6.4	-6.4	0.23	0.16	
1,488.0	0.20	58.30	1,488.0	3.9	6.6	-6.6	0.15	0.00	
1,551.0	0.20	356.40	1,551.0	4.1	6.6	-6.7	0.33	0.00	
1,614.0	0.30	37.30	1,614.0	4.3	6.7	-6.8	0.31	0.16	
1,677.0	0.10	353.30	1,677.0	4.5	6.8	-6.8	0.38	-0.32	
1,741.0	0.30	36.20	1,741.0	4.7	6.9	-6.9	0.37	0.31	
1,804.0	0.40	75.80	1,804.0	4.9	7.2	-7.3	0.40	0.16	
1,867.0	0.20	54.40	1,867.0	5.0	7.5	-7.6	0.36	-0.32	
1,930.0	0.60	64.70	1,930.0	5.2	7.9	-7.9	0.64	0.63	
1,993.0	0.40	49.00	1,993.0	5.5	8.4	-8.4	0.38	-0.32	
2,057.0	0.40	217.30	2,057.0	5.5	8.4	-8.4	1.24	0.00	
2,120.0	0.90	244.10	2,120.0	5.1	7.8	-7.9	0.91	0.79	
2,183.0	0.90	245.10	2,182.9	4.6	7.0	-7.0	0.02	0.00	
2,246.0	1.10	235.00	2,245.9	4.1	6.0	-6.0	0.42	0.32	
2,309.0	0.90	232.50	2,308.9	3.4	5.1	-5.1	0.32	-0.32	
2,372.0	1.00	227.40	2,371.9	2.8	4.3	-4.3	0.21	0.16	
2,436.0	0.80	231.00	2,435.9	2.1	3.6	-3.6	0.32	-0.31	
2,499.0	1.10	233.30	2,498.9	1.5	2.7	-2.7	0.48	0.48	
2,562.0	1.10	234.70	2,561.9	0.8	1.8	-1.8	0.04	0.00	
2,625.0	1.10	225.00	2,624.9	0.0	0.8	-0.8	0.30	0.00	
2,688.0	1.10	228.20	2,687.9	-0.9	0.0	0.0	0.10	0.00	
2,752.0	0.50	265.00	2,751.9	-1.3	-0.8	0.8	1.19	-0.94	
2,815.0	0.30	287.80	2,814.9	-1.3	-1.2	1.2	0.40	-0.32	
2,878.0	0.30	300.40	2,877.9	-1.1	-1.5	1.5	0.10	0.00	
2,941.0	0.30	261.70	2,940.9	-1.1	-1.8	1.8	0.32	0.00	
2,972.0	0.50	273.20	2,971.9	-1.1	-2.0	2.0	0.69	0.65	
3,035.0	0.40	279.50	3,034.9	-1.0	-2.5	2.5	0.18	-0.16	
3,098.0	0.20	256.80	3,097.9	-1.0	-2.8	2.8	0.36	-0.32	
3,161.0	0.20	261.40	3,160.9	-1.0	-3.1	3.1	0.03	0.00	
3,224.0	0.30	214.70	3,223.9	-1.2	-3.3	3.3	0.35	0.16	
3,287.0	0.80	322.30	3,286.9	-1.0	-3.6	3.6	1.48	0.79	
3,351.0	1.20	341.70	3,350.8	0.0	-4.1	4.1	0.81	0.62	
3,414.0	3.80	357.30	3,413.8	2.7	-4.4	4.4	4.23	4.13	
3,477.0	5.40	357.00	3,476.6	7.8	-4.7	4.6	2.54	2.54	
3,540.0	6.90	353.10	3,539.2	14.5	-5.3	5.2	2.47	2.38	
3,604.0	8.90	352.30	3,602.6	23.2	-6.4	6.3	3.13	3.12	
3,667.0	10.60	354.70	3,664.7	33.8	-7.6	7.5	2.77	2.70	
3,730.0	12.30	355.20	3,726.4	46.3	-8.7	8.5	2.70	2.70	
3,793.0	14.00	355.60	3,787.8	60.5	-9.8	9.6	2.70	2.70	
3,857.0	15.20	354.50	3,849.7	76.6	-11.2	11.0	1.92	1.87	
3,920.0	16.10	354.00	3,910.4	93.5	-12.9	12.6	1.44	1.43	
3,983.0	17.30	356.30	3,970.7	111.6	-14.5	14.1	2.17	1.90	
4,046.0	18.10	354.50	4,030.7	130.6	-16.0	15.6	1.54	1.27	
4,109.0	17.80	354.20	4,090.7	150.0	-17.9	17.4	0.50	-0.48	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S18-T24N-R9W (Escrito)
Well: Escrito L18-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito L18-2409 01H
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Survey Calculation Method: Minimum Curvature
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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
4,173.0	17.40	353.70	4,151.7	169.2	-19.9	19.4	0.67	-0.62	
4,236.0	17.70	353.10	4,211.7	188.1	-22.1	21.5	0.56	0.48	
4,299.0	19.30	354.50	4,271.5	208.0	-24.3	23.6	2.64	2.54	
4,362.0	20.80	354.20	4,330.7	229.5	-26.4	25.7	2.39	2.38	
4,426.0	20.70	354.50	4,390.5	252.0	-28.6	27.8	0.23	-0.16	
4,489.0	20.20	352.20	4,449.5	273.9	-31.2	30.3	1.50	-0.79	
4,552.0	19.90	354.80	4,508.7	295.3	-33.6	32.7	1.49	-0.48	
4,615.0	20.00	354.50	4,567.9	316.7	-35.6	34.6	0.23	0.16	
4,678.0	20.50	352.30	4,627.0	338.4	-38.1	37.1	1.45	0.79	
4,742.0	22.20	353.60	4,686.7	361.5	-41.0	39.9	2.76	2.66	
4,805.0	24.10	351.60	4,744.6	386.1	-44.2	43.0	3.26	3.02	
4,868.0	25.50	354.10	4,801.8	412.3	-47.5	46.2	2.78	2.22	
4,900.0	25.60	353.70	4,830.6	426.0	-48.9	47.6	0.62	0.31	
4,931.0	25.70	354.50	4,858.6	439.4	-50.3	48.9	1.16	0.32	
4,963.0	26.00	351.20	4,887.4	453.2	-52.1	50.6	4.59	0.94	
4,994.0	27.70	346.90	4,915.0	466.9	-54.7	53.3	8.32	5.48	
5,026.0	29.00	343.20	4,943.2	481.6	-58.7	57.1	6.83	4.06	
5,058.0	29.90	337.00	4,971.1	496.4	-64.0	62.5	9.93	2.81	
5,089.0	31.30	334.20	4,997.8	510.7	-70.5	68.9	6.44	4.52	
5,121.0	32.90	330.50	5,024.9	525.8	-78.4	76.8	7.92	5.00	
5,152.0	35.10	325.40	5,050.6	540.5	-87.7	86.0	11.61	7.10	
5,184.0	36.90	321.10	5,076.5	555.5	-98.9	97.2	9.69	5.62	
5,216.0	38.30	317.10	5,101.8	570.2	-111.7	109.9	8.79	4.37	
5,247.0	39.90	312.20	5,125.9	584.0	-125.6	123.8	11.22	5.16	
5,279.0	42.50	310.30	5,150.0	597.9	-141.5	139.6	9.02	8.12	
5,310.0	44.20	307.30	5,172.5	611.2	-158.0	156.1	8.61	5.48	
5,342.0	45.40	305.80	5,195.2	624.6	-176.2	174.2	5.00	3.75	
5,374.0	46.30	303.10	5,217.5	637.6	-195.1	193.1	6.68	2.81	
5,405.0	47.40	300.00	5,238.7	649.4	-214.4	212.3	8.11	3.55	
5,437.0	48.60	296.50	5,260.1	660.7	-235.3	233.2	8.95	3.75	
5,469.0	49.40	292.80	5,281.1	670.7	-257.2	255.1	9.08	2.50	
5,500.0	50.20	289.00	5,301.1	679.2	-279.4	277.2	9.71	2.58	
5,532.0	52.50	287.80	5,321.1	687.0	-303.1	300.9	7.76	7.19	
5,563.0	53.60	286.70	5,339.8	694.4	-326.7	324.6	4.54	3.55	
5,595.0	55.70	285.40	5,358.3	701.6	-351.8	349.6	7.35	6.56	
5,627.0	57.90	282.00	5,375.8	707.9	-377.8	375.6	11.24	6.87	
5,658.0	61.00	282.00	5,391.5	713.5	-403.9	401.7	10.00	10.00	
5,690.0	63.50	280.40	5,406.4	719.0	-431.7	429.5	8.98	7.81	
5,721.0	67.20	279.80	5,419.4	723.9	-459.4	457.2	12.06	11.94	
5,753.0	70.40	277.60	5,430.9	728.4	-488.9	486.6	11.88	10.00	
5,785.0	73.80	276.30	5,440.8	732.1	-519.2	516.9	11.31	10.62	
5,816.0	75.90	277.20	5,448.9	735.6	-548.9	546.6	7.33	6.77	
5,848.0	77.70	276.30	5,456.2	739.3	-579.8	577.5	6.26	5.62	
5,879.0	79.90	276.10	5,462.2	742.6	-610.0	607.7	7.12	7.10	
5,914.0	81.90	276.50	5,467.7	746.4	-644.4	642.0	5.82	5.71	
5,945.0	83.10	275.00	5,471.8	749.4	-675.0	672.6	6.16	3.87	
5,976.0	84.40	274.50	5,475.2	752.0	-705.7	703.3	4.49	4.19	
6,006.0	85.20	274.00	5,477.9	754.2	-735.5	733.1	3.14	2.67	
6,036.0	85.40	273.50	5,480.3	756.2	-765.3	762.9	1.79	0.67	
6,066.0	87.40	271.50	5,482.2	757.5	-795.2	792.8	9.42	6.67	
6,127.0	89.90	266.70	5,483.7	756.5	-856.2	853.8	8.87	4.10	
6,188.0	91.30	267.80	5,483.0	753.6	-917.1	914.7	2.92	2.30	
6,249.0	91.10	269.00	5,481.7	751.9	-978.0	975.7	1.99	-0.33	

Survey Report

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Local Co-ordinate Reference: Well Escrito L18-2409 01H
TVD Reference: 15' KB @ 6992.0usft (Aztec 920)
MD Reference: 15' KB @ 6992.0usft (Aztec 920)
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
6,310.0	90.70	269.10	5,480.8	750.9	-1,039.0	1,036.7	0.68	-0.66	
6,370.0	90.20	269.90	5,480.3	750.3	-1,099.0	1,096.7	1.57	-0.83	
6,431.0	90.80	271.00	5,479.8	750.8	-1,160.0	1,157.7	2.05	0.98	
6,491.0	89.80	271.90	5,479.5	752.3	-1,220.0	1,217.6	2.24	-1.67	
6,551.0	90.40	273.40	5,479.4	755.1	-1,279.9	1,277.5	2.69	1.00	
6,612.0	89.40	272.70	5,479.5	758.4	-1,340.8	1,338.4	2.00	-1.64	
6,673.0	88.40	270.20	5,480.6	759.9	-1,401.8	1,399.4	4.41	-1.64	
6,734.0	88.80	270.30	5,482.1	760.2	-1,462.8	1,460.4	0.68	0.66	
6,795.0	88.20	268.50	5,483.7	759.5	-1,523.8	1,521.4	3.11	-0.98	
6,855.0	88.90	267.20	5,485.3	757.3	-1,583.7	1,581.3	2.46	1.17	
6,916.0	90.10	266.30	5,485.8	753.8	-1,644.6	1,642.2	2.46	1.97	
6,977.0	92.30	268.00	5,484.5	750.8	-1,705.5	1,703.1	4.56	3.61	
7,038.0	92.60	267.60	5,481.9	748.4	-1,766.4	1,764.0	0.82	0.49	
7,098.0	92.70	268.70	5,479.1	746.5	-1,826.3	1,823.9	1.84	0.17	
7,161.0	91.80	270.30	5,476.7	746.0	-1,889.2	1,886.9	2.91	-1.43	
7,225.0	89.00	268.60	5,476.2	745.4	-1,953.2	1,950.9	5.12	-4.38	
7,288.0	88.50	267.40	5,477.6	743.2	-2,016.2	2,013.8	2.06	-0.79	
7,351.0	90.00	267.40	5,478.4	740.3	-2,079.1	2,076.8	2.38	2.38	
7,414.0	91.40	268.90	5,477.6	738.3	-2,142.1	2,139.7	3.26	2.22	
7,477.0	92.20	268.60	5,475.7	736.9	-2,205.0	2,202.7	1.36	1.27	
7,540.0	91.70	269.80	5,473.5	736.0	-2,268.0	2,265.6	2.06	-0.79	
7,604.0	91.90	270.80	5,471.5	736.3	-2,331.9	2,329.6	1.59	0.31	
7,667.0	92.80	270.30	5,468.9	736.9	-2,394.9	2,392.5	1.63	1.43	
7,730.0	91.80	270.10	5,466.4	737.2	-2,457.8	2,455.5	1.62	-1.59	
7,793.0	88.60	268.30	5,466.2	736.3	-2,520.8	2,518.5	5.83	-5.08	
7,857.0	91.00	269.80	5,466.4	735.2	-2,584.8	2,582.5	4.42	3.75	
7,920.0	92.20	270.40	5,464.6	735.3	-2,647.8	2,645.4	2.13	1.90	
7,983.0	91.50	269.50	5,462.6	735.3	-2,710.7	2,708.4	1.81	-1.11	
8,046.0	92.00	269.20	5,460.7	734.6	-2,773.7	2,771.4	0.93	0.79	
8,109.0	92.60	270.10	5,458.1	734.2	-2,836.6	2,834.3	1.72	0.95	
8,173.0	91.70	269.70	5,455.7	734.1	-2,900.6	2,898.3	1.54	-1.41	
8,236.0	91.90	269.70	5,453.8	733.7	-2,963.6	2,961.2	0.32	0.32	
8,299.0	90.80	269.90	5,452.3	733.5	-3,026.5	3,024.2	1.77	-1.75	
8,363.0	89.60	270.30	5,452.1	733.6	-3,090.5	3,088.2	1.98	-1.88	
8,426.0	90.00	270.50	5,452.3	734.1	-3,153.5	3,151.2	0.71	0.63	
8,489.0	90.00	269.60	5,452.3	734.1	-3,216.5	3,214.2	1.43	0.00	
8,552.0	90.40	268.20	5,452.1	732.9	-3,279.5	3,277.2	2.31	0.63	
8,616.0	90.30	269.60	5,451.7	731.7	-3,343.5	3,341.2	2.19	-0.16	
8,679.0	89.00	270.50	5,452.1	731.7	-3,406.5	3,404.2	2.51	-2.06	
8,742.0	90.00	271.00	5,452.6	732.6	-3,469.5	3,467.2	1.77	1.59	
8,805.0	90.30	271.10	5,452.4	733.7	-3,532.5	3,530.2	0.50	0.48	
8,869.0	91.10	270.60	5,451.7	734.7	-3,596.5	3,594.2	1.47	1.25	
8,932.0	90.40	270.70	5,450.8	735.4	-3,659.5	3,657.1	1.12	-1.11	
8,995.0	91.10	270.40	5,450.0	736.0	-3,722.5	3,720.1	1.21	1.11	
9,058.0	90.50	271.10	5,449.1	736.8	-3,785.4	3,783.1	1.46	-0.95	
9,121.0	89.60	271.80	5,449.1	738.4	-3,848.4	3,846.1	1.81	-1.43	
9,184.0	89.50	271.60	5,449.6	740.3	-3,911.4	3,909.1	0.35	-0.16	
9,248.0	90.50	271.50	5,449.6	742.0	-3,975.4	3,973.0	1.57	1.56	
9,311.0	90.30	271.80	5,449.1	743.8	-4,038.3	4,036.0	0.57	-0.32	
9,374.0	90.00	272.50	5,449.0	746.2	-4,101.3	4,098.9	1.21	-0.48	
9,438.0	91.20	274.30	5,448.3	750.0	-4,165.2	4,162.8	3.38	1.88	
9,501.0	90.20	274.20	5,447.5	754.7	-4,228.0	4,225.6	1.60	-1.59	
9,564.0	89.20	273.70	5,447.9	759.0	-4,290.9	4,288.5	1.77	-1.59	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S18-T24N-R9W (Escrito)
Well: Escrito L18-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito L18-2409 01H
TVD Reference: 15' KB @ 6992.0usft (Aztec 920)
MD Reference: 15' KB @ 6992.0usft (Aztec 920)
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
9,627.0	89.30	272.50	5,448.7	762.4	-4,353.8	4,351.4	1.91	0.16	
9,691.0	90.80	271.00	5,448.6	764.4	-4,417.7	4,415.3	3.31	2.34	
9,754.0	90.50	269.70	5,447.9	764.7	-4,480.7	4,478.3	2.12	-0.48	
9,817.0	91.00	267.10	5,447.1	763.0	-4,543.7	4,541.3	4.20	0.79	
9,881.0	90.90	267.40	5,446.0	759.9	-4,607.6	4,605.2	0.49	-0.16	
9,944.0	90.50	265.70	5,445.3	756.1	-4,670.5	4,668.1	2.77	-0.63	
10,007.0	90.00	266.80	5,445.0	752.0	-4,733.4	4,731.0	1.92	-0.79	
10,070.0	91.40	268.70	5,444.2	749.5	-4,796.3	4,793.9	3.75	2.22	
10,133.0	92.10	268.80	5,442.3	748.2	-4,859.2	4,856.9	1.12	1.11	
10,196.0	91.50	267.90	5,440.3	746.3	-4,922.2	4,919.8	1.72	-0.95	
10,260.0	92.20	268.60	5,438.2	744.4	-4,986.1	4,983.7	1.55	1.09	
10,323.0	92.80	268.80	5,435.5	743.0	-5,049.0	5,046.7	1.00	0.95	
10,386.0	90.80	268.40	5,433.5	741.4	-5,112.0	5,109.6	3.24	-3.17	
10,449.0	90.70	266.60	5,432.7	738.7	-5,174.9	5,172.6	2.86	-0.16	
10,522.0	91.00	265.90	5,431.6	733.9	-5,247.8	5,245.4	1.04	0.41	Last CES Survey @ 10,522' MD
10,572.0	91.00	265.90	5,430.7	730.3	-5,297.6	5,295.3	0.00	0.00	PTB @ 10,572'

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S18-T24N-R9W (Escrito)
Well: Escrito L18-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito L18-2409 01H
TVD Reference: 15' KB @ 6992.0usft (Aztec 920)
MD Reference: 15' KB @ 6992.0usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA EDM 5000 Multi Users DB

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 L18-2409 01H Pt - actual wellpath misses target center by 20.4usft at 6043.9usft MD (5480.9 TVD, 756.6 N, -773.2 E) - Point	0.00	0.00	5,501.3	757.2	-771.9	1,933,210.31	2,721,018.56	36.312940	-107.840370
Interp @ 5491.5 (Escrito - actual wellpath misses target center by 10.7usft at 6048.5usft MD (5481.3 TVD, 756.8 N, -777.8 E) - Point	0.00	0.00	5,491.5	759.8	-777.0	1,933,212.88	2,721,013.45	36.312947	-107.840387
Escrito L18-2409 01H Pt - actual wellpath misses target center by 22.8usft at 10572.0usft MD (5430.7 TVD, 730.3 N, -5297.6 E) - Point	0.00	0.00	5,438.6	743.1	-5,314.8	1,933,196.44	2,716,475.61	36.312900	-107.855790
Escrito L18-2409 01H Pt - actual wellpath misses target center by 37.6usft at 10572.0usft MD (5430.7 TVD, 730.3 N, -5297.6 E) - Point	0.00	0.00	5,461.6	743.1	-5,314.8	1,933,196.44	2,716,475.61	36.312900	-107.855790
Escrito L18-2409 01H Pt - actual wellpath misses target center by 54.3usft at 10572.0usft MD (5430.7 TVD, 730.3 N, -5297.6 E) - Point	0.00	0.00	5,480.6	743.1	-5,314.8	1,933,196.44	2,716,475.61	36.312900	-107.855790
Escrito L18-2409 01H Pt - actual wellpath misses target center by 2.6usft at 6042.5usft MD (5480.8 TVD, 756.5 N, -771.8 E) - Point	0.00	0.00	5,478.3	757.2	-771.9	1,933,210.31	2,721,018.56	36.312940	-107.840370
Escrito L18-2409 01H Pt - actual wellpath misses target center by 23.4usft at 10572.0usft MD (5430.7 TVD, 730.3 N, -5297.6 E) - Point	0.00	0.00	5,440.1	743.1	-5,314.8	1,933,196.44	2,716,475.61	36.312900	-107.855790
Escrito L18-2409 01H Pt - actual wellpath misses target center by 39.3usft at 6045.1usft MD (5481.0 TVD, 756.7 N, -774.4 E) - Point	0.00	0.00	5,520.3	757.2	-771.9	1,933,210.31	2,721,018.56	36.312940	-107.840370
Escrito L18-2409 01H Pt - actual wellpath misses target center by 14.7usft at 6043.6usft MD (5480.9 TVD, 756.6 N, -772.8 E) - Point	0.00	0.00	5,495.6	757.2	-771.9	1,933,210.31	2,721,018.56	36.312940	-107.840370

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,522.0	5,431.6	733.9	-5,247.8	Last CES Survey @ 10,522' MD
10,572.0	5,430.7	730.3	-5,297.6	PTB @ 10,572'

Checked By: _____ Approved By: _____ Date: _____

EnCana Oil & Gas (USA) Inc

San Juan County, NM

S18-T24N-R9W (Escrito)

Escrito L18-2409 01H

Hz

Design: FINAL

Survey Report - Geographic

11 September, 2014

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito L18-2409 01H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6992.0usft (Aztec 920)
Site:	S18-T24N-R9W (Escrito)	MD Reference:	15' KB @ 6992.0usft (Aztec 920)
Well:	Escrito L18-2409 01H	North Reference:	True
Wellbore:	H2	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	S18-T24N-R9W (Escrito)		
Site Position:		Northing:	1,932,453.09 usft
From:	Lat/Long	Easting:	2,721,790.42 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	36.310860
		Longitude:	-107.837750
		Grid Convergence:	0.00 °

Well	Escrito L18-2409 01H		
Well Position	+N/-S	0.0 usft	Northing: 1,932,453.09 usft
	+E/-W	0.0 usft	Easting: 2,721,790.42 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36.310860
		Longitude:	-107.837750
		Ground Level:	6,977.0 usft

Wellbore	H2		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	8/27/2014	9.49
		Dip Angle (°)	63.00
		Field Strength (nT)	50,159

Design	FINAL		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:		Tie On Depth:	0.0
	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
		Direction (°)	269.82

Survey Program	Date 9/11/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
117.0	10,572.0	Survey #1 (H2)	Geolink MWD
			Description
			Geolink MWD

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,932,453.09	2,721,790.42	36.310860	-107.837750
117.0	0.70	42.90	117.0	0.5	0.5	1,932,453.61	2,721,790.91	36.310862	-107.837749
180.0	0.80	43.10	180.0	1.1	1.0	1,932,454.22	2,721,791.47	36.310863	-107.837747
243.0	0.70	38.00	243.0	1.8	1.6	1,932,454.84	2,721,792.01	36.310865	-107.837745
306.0	0.50	38.70	306.0	2.3	2.0	1,932,455.36	2,721,792.41	36.310866	-107.837744
370.0	0.40	40.20	370.0	2.7	2.3	1,932,455.75	2,721,792.73	36.310867	-107.837742
433.0	0.60	58.60	433.0	3.0	2.7	1,932,456.09	2,721,793.16	36.310868	-107.837741
460.0	0.40	73.30	460.0	3.1	2.9	1,932,456.19	2,721,793.37	36.310869	-107.837740
537.0	0.20	82.10	537.0	3.2	3.3	1,932,456.28	2,721,793.76	36.310869	-107.837739
600.0	0.30	94.00	600.0	3.2	3.6	1,932,456.29	2,721,794.03	36.310869	-107.837738
664.0	0.40	87.50	664.0	3.2	4.0	1,932,456.29	2,721,794.42	36.310869	-107.837737
727.0	0.40	61.30	727.0	3.3	4.4	1,932,456.40	2,721,794.84	36.310869	-107.837735

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S18-T24N-R9W (Escrito)
Well: Escrito L18-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito L18-2409 01H
TVD Reference: 15' KB @ 6992.0usft (Aztec 920)
MD Reference: 15' KB @ 6992.0usft (Aztec 920)
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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
790.0	0.40	61.20	790.0	3.5	4.8	1,932,456.61	2,721,795.22	36.310870	-107.837734
854.0	0.30	73.60	854.0	3.7	5.2	1,932,456.77	2,721,795.58	36.310870	-107.837733
917.0	0.30	80.70	917.0	3.8	5.5	1,932,456.84	2,721,795.90	36.310870	-107.837732
980.0	0.20	51.40	980.0	3.8	5.7	1,932,456.94	2,721,796.15	36.310871	-107.837731
1,044.0	0.10	99.50	1,044.0	3.9	5.9	1,932,457.00	2,721,796.29	36.310871	-107.837730
1,107.0	0.10	294.30	1,107.0	3.9	5.9	1,932,457.01	2,721,796.29	36.310871	-107.837730
1,171.0	0.10	19.10	1,171.0	4.0	5.8	1,932,457.09	2,721,796.26	36.310871	-107.837730
1,234.0	0.10	117.30	1,234.0	4.0	5.9	1,932,457.11	2,721,796.33	36.310871	-107.837730
1,298.0	0.20	114.10	1,298.0	4.0	6.1	1,932,457.04	2,721,796.48	36.310871	-107.837730
1,361.0	0.10	128.70	1,361.0	3.9	6.2	1,932,456.96	2,721,796.62	36.310871	-107.837729
1,424.0	0.20	87.00	1,424.0	3.8	6.4	1,932,456.93	2,721,796.78	36.310871	-107.837729
1,488.0	0.20	58.30	1,488.0	3.9	6.6	1,932,457.00	2,721,796.98	36.310871	-107.837728
1,551.0	0.20	356.40	1,551.0	4.1	6.6	1,932,457.17	2,721,797.07	36.310871	-107.837728
1,614.0	0.30	37.30	1,614.0	4.3	6.7	1,932,457.41	2,721,797.16	36.310872	-107.837727
1,677.0	0.10	353.30	1,677.0	4.5	6.8	1,932,457.59	2,721,797.25	36.310872	-107.837727
1,741.0	0.30	36.20	1,741.0	4.7	6.9	1,932,457.78	2,721,797.35	36.310873	-107.837727
1,804.0	0.40	75.80	1,804.0	4.9	7.2	1,932,457.97	2,721,797.66	36.310873	-107.837726
1,867.0	0.20	54.40	1,867.0	5.0	7.5	1,932,458.09	2,721,797.96	36.310874	-107.837725
1,930.0	0.60	64.70	1,930.0	5.2	7.9	1,932,458.29	2,721,798.35	36.310874	-107.837723
1,993.0	0.40	49.00	1,993.0	5.5	8.4	1,932,458.58	2,721,798.81	36.310875	-107.837722
2,057.0	0.40	217.30	2,057.0	5.5	8.4	1,932,458.55	2,721,798.85	36.310875	-107.837722
2,120.0	0.90	244.10	2,120.0	5.1	7.8	1,932,458.16	2,721,798.27	36.310874	-107.837724
2,183.0	0.90	245.10	2,182.9	4.6	7.0	1,932,457.73	2,721,797.37	36.310873	-107.837727
2,246.0	1.10	235.00	2,245.9	4.1	6.0	1,932,457.18	2,721,796.43	36.310871	-107.837730
2,309.0	0.90	232.50	2,308.9	3.4	5.1	1,932,456.53	2,721,795.54	36.310870	-107.837733
2,372.0	1.00	227.40	2,371.9	2.8	4.3	1,932,455.86	2,721,794.74	36.310868	-107.837736
2,436.0	0.80	231.00	2,435.9	2.1	3.6	1,932,455.20	2,721,793.99	36.310866	-107.837738
2,499.0	1.10	233.30	2,498.9	1.5	2.7	1,932,454.56	2,721,793.16	36.310864	-107.837741
2,562.0	1.10	234.70	2,561.9	0.8	1.8	1,932,453.85	2,721,792.18	36.310862	-107.837744
2,625.0	1.10	225.00	2,624.9	0.0	0.8	1,932,453.07	2,721,791.26	36.310860	-107.837747
2,688.0	1.10	228.20	2,687.9	-0.9	0.0	1,932,452.24	2,721,790.38	36.310858	-107.837750
2,752.0	0.50	265.00	2,751.9	-1.3	-0.8	1,932,451.81	2,721,789.64	36.310857	-107.837753
2,815.0	0.30	287.80	2,814.9	-1.3	-1.2	1,932,451.83	2,721,789.21	36.310857	-107.837754
2,878.0	0.30	300.40	2,877.9	-1.1	-1.5	1,932,451.97	2,721,788.91	36.310857	-107.837755
2,941.0	0.30	261.70	2,940.9	-1.1	-1.8	1,932,452.03	2,721,788.61	36.310857	-107.837756
2,972.0	0.50	273.20	2,971.9	-1.1	-2.0	1,932,452.02	2,721,788.39	36.310857	-107.837757
3,035.0	0.40	279.50	3,034.9	-1.0	-2.5	1,932,452.07	2,721,787.90	36.310857	-107.837759
3,098.0	0.20	256.80	3,097.9	-1.0	-2.8	1,932,452.08	2,721,787.58	36.310857	-107.837760
3,161.0	0.20	261.40	3,160.9	-1.0	-3.1	1,932,452.04	2,721,787.36	36.310857	-107.837761
3,224.0	0.30	214.70	3,223.9	-1.2	-3.3	1,932,451.89	2,721,787.16	36.310857	-107.837761
3,287.0	0.80	322.30	3,286.9	-1.0	-3.6	1,932,452.10	2,721,786.80	36.310857	-107.837763
3,351.0	1.20	341.70	3,350.8	0.0	-4.1	1,932,453.09	2,721,786.31	36.310860	-107.837764
3,414.0	3.80	357.30	3,413.8	2.7	-4.4	1,932,455.81	2,721,786.01	36.310868	-107.837765
3,477.0	5.40	357.00	3,476.6	7.8	-4.7	1,932,460.85	2,721,785.76	36.310881	-107.837766
3,540.0	6.90	353.10	3,539.2	14.5	-5.3	1,932,467.57	2,721,785.15	36.310900	-107.837768
3,604.0	8.90	352.30	3,602.6	23.2	-6.4	1,932,476.29	2,721,784.02	36.310924	-107.837772
3,667.0	10.60	354.70	3,664.7	33.8	-7.6	1,932,486.89	2,721,782.83	36.310953	-107.837776
3,730.0	12.30	355.20	3,726.4	46.3	-8.7	1,932,499.35	2,721,781.74	36.310987	-107.837780
3,793.0	14.00	355.60	3,787.8	60.5	-9.8	1,932,513.64	2,721,780.59	36.311026	-107.837784
3,857.0	15.20	354.50	3,849.7	76.6	-11.2	1,932,529.71	2,721,779.19	36.311071	-107.837788
3,920.0	16.10	354.00	3,910.4	93.5	-12.9	1,932,546.62	2,721,777.49	36.311117	-107.837794
3,983.0	17.30	356.30	3,970.7	111.6	-14.5	1,932,564.65	2,721,775.97	36.311167	-107.837799
4,046.0	18.10	354.50	4,030.7	130.6	-16.0	1,932,583.74	2,721,774.43	36.311219	-107.837805
4,109.0	17.80	354.20	4,090.7	150.0	-17.9	1,932,603.06	2,721,772.52	36.311272	-107.837811
4,173.0	17.40	353.70	4,151.7	169.2	-19.9	1,932,622.31	2,721,770.48	36.311325	-107.837818

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S18-T24N-R9W (Escrito)
Well: Escrito L18-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito L18-2409 01H
TVD Reference: 15' KB @ 6992.0usft (Aztec 920)
MD Reference: 15' KB @ 6992.0usft (Aztec 920)
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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,236.0	17.70	353.10	4,211.7	188.1	-22.1	1,932,641.18	2,721,768.30	36.311377	-107.837825
4,299.0	19.30	354.50	4,271.5	208.0	-24.3	1,932,661.05	2,721,766.15	36.311431	-107.837833
4,362.0	20.80	354.20	4,330.7	229.5	-26.4	1,932,682.54	2,721,764.02	36.311490	-107.837840
4,426.0	20.70	354.50	4,390.5	252.0	-28.6	1,932,705.11	2,721,761.79	36.311552	-107.837847
4,489.0	20.20	352.20	4,449.5	273.9	-31.2	1,932,726.97	2,721,759.25	36.311612	-107.837856
4,552.0	19.90	354.80	4,508.7	295.3	-33.6	1,932,748.42	2,721,756.80	36.311671	-107.837864
4,615.0	20.00	354.50	4,567.9	316.7	-35.6	1,932,769.82	2,721,754.80	36.311730	-107.837871
4,678.0	20.50	352.30	4,627.0	338.4	-38.1	1,932,791.48	2,721,752.29	36.311790	-107.837880
4,742.0	22.20	353.60	4,686.7	361.5	-41.0	1,932,814.60	2,721,749.44	36.311853	-107.837889
4,805.0	24.10	351.60	4,744.6	386.1	-44.2	1,932,839.16	2,721,746.24	36.311921	-107.837900
4,868.0	25.50	354.10	4,801.8	412.3	-47.5	1,932,865.38	2,721,742.97	36.311993	-107.837911
4,900.0	25.60	353.70	4,830.6	426.0	-48.9	1,932,879.10	2,721,741.50	36.312030	-107.837916
4,931.0	25.70	354.50	4,858.6	439.4	-50.3	1,932,892.45	2,721,740.12	36.312067	-107.837921
4,963.0	26.00	351.20	4,887.4	453.2	-52.1	1,932,906.29	2,721,738.38	36.312105	-107.837927
4,994.0	27.70	346.90	4,915.0	466.9	-54.7	1,932,920.02	2,721,735.71	36.312143	-107.837936
5,026.0	29.00	343.20	4,943.2	481.6	-58.7	1,932,934.69	2,721,731.78	36.312183	-107.837949
5,058.0	29.90	337.00	4,971.1	496.4	-64.0	1,932,949.46	2,721,726.42	36.312224	-107.837968
5,089.0	31.30	334.20	4,997.8	510.7	-70.5	1,932,963.83	2,721,719.90	36.312263	-107.837990
5,121.0	32.90	330.50	5,024.9	525.8	-78.4	1,932,978.88	2,721,712.00	36.312304	-107.838017
5,152.0	35.10	325.40	5,050.6	540.5	-87.7	1,932,993.55	2,721,702.79	36.312345	-107.838048
5,184.0	36.90	321.10	5,076.5	555.5	-98.9	1,933,008.60	2,721,691.53	36.312386	-107.838086
5,216.0	38.30	317.10	5,101.8	570.2	-111.7	1,933,023.34	2,721,678.75	36.312427	-107.838129
5,247.0	39.90	312.20	5,125.9	584.0	-125.6	1,933,037.07	2,721,664.84	36.312464	-107.838177
5,279.0	42.50	310.30	5,150.0	597.9	-141.5	1,933,050.95	2,721,648.99	36.312502	-107.838230
5,310.0	44.20	307.30	5,172.5	611.2	-158.0	1,933,064.28	2,721,632.41	36.312539	-107.838287
5,342.0	45.40	305.80	5,195.2	624.6	-176.2	1,933,077.70	2,721,614.29	36.312576	-107.838348
5,374.0	46.30	303.10	5,217.5	637.6	-195.1	1,933,090.69	2,721,595.36	36.312612	-107.838412
5,405.0	47.40	300.00	5,238.7	649.4	-214.4	1,933,102.51	2,721,576.09	36.312644	-107.838478
5,437.0	48.60	296.50	5,260.1	660.7	-235.3	1,933,113.76	2,721,555.15	36.312675	-107.838549
5,469.0	49.40	292.80	5,281.1	670.7	-257.2	1,933,123.83	2,721,533.20	36.312703	-107.838623
5,500.0	50.20	289.00	5,301.1	679.2	-279.4	1,933,132.27	2,721,511.09	36.312726	-107.838699
5,532.0	52.50	287.80	5,321.1	687.0	-303.1	1,933,140.15	2,721,487.38	36.312747	-107.838779
5,563.0	53.60	286.70	5,339.8	694.4	-326.7	1,933,147.50	2,721,463.72	36.312768	-107.838859
5,595.0	55.70	285.40	5,358.3	701.6	-351.8	1,933,154.71	2,721,438.64	36.312787	-107.838944
5,627.0	57.90	282.00	5,375.8	707.9	-377.8	1,933,161.04	2,721,412.63	36.312805	-107.839033
5,658.0	61.00	282.00	5,391.5	713.5	-403.9	1,933,166.59	2,721,386.52	36.312820	-107.839121
5,690.0	63.50	280.40	5,406.4	719.0	-431.7	1,933,172.09	2,721,358.74	36.312835	-107.839216
5,721.0	67.20	279.80	5,419.4	723.9	-459.4	1,933,177.03	2,721,331.01	36.312849	-107.839310
5,753.0	70.40	277.60	5,430.9	728.4	-488.9	1,933,181.54	2,721,301.52	36.312861	-107.839410
5,785.0	73.80	276.30	5,440.8	732.1	-519.2	1,933,185.22	2,721,271.30	36.312871	-107.839512
5,816.0	75.90	277.20	5,448.9	735.6	-548.9	1,933,188.74	2,721,241.58	36.312881	-107.839613
5,848.0	77.70	276.30	5,456.2	739.3	-579.8	1,933,192.40	2,721,210.65	36.312891	-107.839718
5,879.0	79.90	276.10	5,462.2	742.6	-610.0	1,933,195.69	2,721,180.42	36.312900	-107.839821
5,914.0	81.90	276.50	5,467.7	746.4	-644.4	1,933,199.48	2,721,146.07	36.312910	-107.839937
5,945.0	83.10	275.00	5,471.8	749.4	-675.0	1,933,202.56	2,721,115.49	36.312919	-107.840041
5,976.0	84.40	274.50	5,475.2	752.0	-705.7	1,933,205.11	2,721,084.78	36.312926	-107.840146
6,006.0	85.20	274.00	5,477.9	754.2	-735.5	1,933,207.33	2,721,054.99	36.312932	-107.840247
6,036.0	85.40	273.50	5,480.3	756.2	-765.3	1,933,209.29	2,721,025.15	36.312937	-107.840348
6,066.0	87.40	271.50	5,482.2	757.5	-795.2	1,933,210.59	2,720,995.24	36.312941	-107.840449
6,127.0	89.90	266.70	5,483.7	756.5	-856.2	1,933,209.64	2,720,934.29	36.312938	-107.840656
6,188.0	91.30	267.80	5,483.0	753.6	-917.1	1,933,206.71	2,720,873.37	36.312930	-107.840863
6,249.0	91.10	269.00	5,481.7	751.9	-978.0	1,933,205.01	2,720,812.41	36.312925	-107.841070
6,310.0	90.70	269.10	5,480.8	750.9	-1,039.0	1,933,204.00	2,720,751.42	36.312923	-107.841277
6,370.0	90.20	269.90	5,480.3	750.3	-1,099.0	1,933,203.48	2,720,691.43	36.312921	-107.841481
6,431.0	90.80	271.00	5,479.8	750.8	-1,160.0	1,933,203.96	2,720,630.43	36.312923	-107.841688

Survey Report - Geographic

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S18-T24N-R9W (Escrito)
Well: Escrito L18-2409 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito L18-2409 01H
TVD Reference: 15' KB @ 6992.0usft (Aztec 920)
MD Reference: 15' KB @ 6992.0usft (Aztec 920)
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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,491.0	89.80	271.90	5,479.5	752.3	-1,220.0	1,933,205.49	2,720,570.45	36.312927	-107.841891
6,551.0	90.40	273.40	5,479.4	755.1	-1,279.9	1,933,208.26	2,720,510.53	36.312934	-107.842095
6,612.0	89.40	272.70	5,479.5	758.4	-1,340.8	1,933,211.51	2,720,449.62	36.312943	-107.842301
6,673.0	88.40	270.20	5,480.6	759.9	-1,401.8	1,933,213.06	2,720,388.66	36.312947	-107.842508
6,734.0	88.80	270.30	5,482.1	760.2	-1,462.8	1,933,213.33	2,720,327.68	36.312948	-107.842715
6,795.0	88.20	268.50	5,483.7	759.5	-1,523.8	1,933,212.69	2,720,266.70	36.312946	-107.842922
6,855.0	88.90	267.20	5,485.3	757.3	-1,583.7	1,933,210.44	2,720,206.77	36.312940	-107.843126
6,916.0	90.10	266.30	5,485.8	753.8	-1,644.6	1,933,206.99	2,720,145.87	36.312931	-107.843332
6,977.0	92.30	268.00	5,484.5	750.8	-1,705.5	1,933,203.96	2,720,084.96	36.312922	-107.843539
7,038.0	92.60	267.60	5,481.9	748.4	-1,766.4	1,933,201.62	2,720,024.06	36.312916	-107.843746
7,098.0	92.70	268.70	5,479.1	746.5	-1,826.3	1,933,199.69	2,719,964.16	36.312911	-107.843949
7,161.0	91.80	270.30	5,476.7	746.0	-1,889.2	1,933,199.14	2,719,901.21	36.312909	-107.844163
7,225.0	89.00	268.60	5,476.2	745.4	-1,953.2	1,933,198.53	2,719,837.23	36.312907	-107.844380
7,288.0	88.50	267.40	5,477.6	743.2	-2,016.2	1,933,196.34	2,719,774.28	36.312901	-107.844594
7,351.0	90.00	267.40	5,478.4	740.3	-2,079.1	1,933,193.48	2,719,711.35	36.312894	-107.844807
7,414.0	91.40	268.90	5,477.6	738.3	-2,142.1	1,933,191.45	2,719,648.40	36.312888	-107.845021
7,477.0	92.20	268.60	5,475.7	736.9	-2,205.0	1,933,190.08	2,719,585.44	36.312884	-107.845235
7,540.0	91.70	269.80	5,473.5	736.0	-2,268.0	1,933,189.20	2,719,522.49	36.312882	-107.845448
7,604.0	91.90	270.80	5,471.5	736.3	-2,331.9	1,933,189.54	2,719,458.52	36.312883	-107.845665
7,667.0	92.80	270.30	5,468.9	736.9	-2,394.9	1,933,190.15	2,719,395.58	36.312884	-107.845879
7,730.0	91.80	270.10	5,466.4	737.2	-2,457.8	1,933,190.37	2,719,332.63	36.312885	-107.846093
7,793.0	88.60	268.30	5,466.2	736.3	-2,520.8	1,933,189.49	2,719,269.65	36.312882	-107.846307
7,857.0	91.00	269.80	5,466.4	735.2	-2,584.8	1,933,188.44	2,719,205.66	36.312879	-107.846524
7,920.0	92.20	270.40	5,464.6	735.3	-2,647.8	1,933,188.55	2,719,142.69	36.312880	-107.846737
7,983.0	91.50	269.50	5,462.6	735.3	-2,710.7	1,933,188.50	2,719,079.72	36.312880	-107.846951
8,046.0	92.00	269.20	5,460.7	734.6	-2,773.7	1,933,187.79	2,719,016.76	36.312878	-107.847165
8,109.0	92.60	270.10	5,458.1	734.2	-2,836.6	1,933,187.40	2,718,953.81	36.312877	-107.847379
8,173.0	91.70	269.70	5,455.7	734.1	-2,900.6	1,933,187.29	2,718,889.85	36.312876	-107.847596
8,236.0	91.90	269.70	5,453.8	733.7	-2,963.6	1,933,186.97	2,718,826.89	36.312875	-107.847809
8,299.0	90.80	269.90	5,452.3	733.5	-3,026.5	1,933,186.75	2,718,763.91	36.312875	-107.848023
8,363.0	89.60	270.30	5,452.1	733.6	-3,090.5	1,933,186.87	2,718,699.91	36.312875	-107.848240
8,426.0	90.00	270.50	5,452.3	734.1	-3,153.5	1,933,187.31	2,718,636.91	36.312876	-107.848454
8,489.0	90.00	269.60	5,452.3	734.1	-3,216.5	1,933,187.37	2,718,573.91	36.312876	-107.848668
8,552.0	90.40	268.20	5,452.1	732.9	-3,279.5	1,933,186.16	2,718,510.92	36.312873	-107.848882
8,616.0	90.30	269.60	5,451.7	731.7	-3,343.5	1,933,184.93	2,718,446.94	36.312870	-107.849099
8,679.0	89.00	270.50	5,452.1	731.7	-3,406.5	1,933,184.99	2,718,383.94	36.312870	-107.849313
8,742.0	90.00	271.00	5,452.6	732.6	-3,469.5	1,933,185.82	2,718,320.95	36.312872	-107.849527
8,805.0	90.30	271.10	5,452.4	733.7	-3,532.5	1,933,186.98	2,718,257.96	36.312875	-107.849740
8,869.0	91.10	270.60	5,451.7	734.7	-3,596.5	1,933,187.93	2,718,193.97	36.312878	-107.849958
8,932.0	90.40	270.70	5,450.8	735.4	-3,659.5	1,933,188.65	2,718,130.98	36.312880	-107.850171
8,995.0	91.10	270.40	5,450.0	736.0	-3,722.5	1,933,189.25	2,718,067.99	36.312881	-107.850385
9,058.0	90.50	271.10	5,449.1	736.8	-3,785.4	1,933,190.08	2,718,005.01	36.312883	-107.850599
9,121.0	89.60	271.80	5,449.1	738.4	-3,848.4	1,933,191.68	2,717,942.03	36.312888	-107.850813
9,184.0	89.50	271.60	5,449.6	740.3	-3,911.4	1,933,193.55	2,717,879.06	36.312893	-107.851027
9,248.0	90.50	271.50	5,449.6	742.0	-3,975.4	1,933,195.28	2,717,815.08	36.312898	-107.851244
9,311.0	90.30	271.80	5,449.1	743.8	-4,038.3	1,933,197.10	2,717,752.11	36.312903	-107.851457
9,374.0	90.00	272.50	5,449.0	746.2	-4,101.3	1,933,199.47	2,717,689.16	36.312909	-107.851671
9,438.0	91.20	274.30	5,448.3	750.0	-4,165.2	1,933,203.27	2,717,625.28	36.312920	-107.851888
9,501.0	90.20	274.20	5,447.5	754.7	-4,228.0	1,933,207.94	2,717,562.45	36.312932	-107.852101
9,564.0	89.20	273.70	5,447.9	759.0	-4,290.9	1,933,212.28	2,717,499.59	36.312944	-107.852315
9,627.0	89.30	272.50	5,448.7	762.4	-4,353.8	1,933,215.69	2,717,436.69	36.312954	-107.852528
9,691.0	90.80	271.00	5,448.6	764.4	-4,417.7	1,933,217.65	2,717,372.72	36.312959	-107.852745
9,754.0	90.50	269.70	5,447.9	764.7	-4,480.7	1,933,218.03	2,717,309.73	36.312960	-107.852959
9,817.0	91.00	267.10	5,447.1	763.0	-4,543.7	1,933,216.28	2,717,246.76	36.312955	-107.853173
9,881.0	90.90	267.40	5,446.0	759.9	-4,607.6	1,933,213.21	2,717,182.84	36.312947	-107.853390

Survey Report - Geographic

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito L18-2409 01H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6992.0usft (Aztec 920)
Site:	S18-T24N-R9W (Escrito)	MD Reference:	15' KB @ 6992.0usft (Aztec 920)
Well:	Escrito L18-2409 01H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,944.0	90.50	265.70	5,445.3	756.1	-4,670.5	1,933,209.42	2,717,119.97	36.312936	-107.853603
10,007.0	90.00	266.80	5,445.0	752.0	-4,733.4	1,933,205.31	2,717,057.10	36.312925	-107.853817
10,070.0	91.40	268.70	5,444.2	749.5	-4,796.3	1,933,202.84	2,716,994.16	36.312918	-107.854030
10,133.0	92.10	268.80	5,442.3	748.2	-4,859.2	1,933,201.47	2,716,931.20	36.312914	-107.854244
10,196.0	91.50	267.90	5,440.3	746.3	-4,922.2	1,933,199.66	2,716,868.28	36.312909	-107.854457
10,260.0	92.20	268.60	5,438.2	744.4	-4,986.1	1,933,197.71	2,716,804.35	36.312904	-107.854674
10,323.0	92.80	268.80	5,435.5	743.0	-5,049.0	1,933,196.28	2,716,741.42	36.312900	-107.854888
10,386.0	90.80	268.40	5,433.5	741.4	-5,112.0	1,933,194.74	2,716,678.48	36.312896	-107.855102
10,449.0	90.70	266.60	5,432.7	738.7	-5,174.9	1,933,192.00	2,716,615.54	36.312888	-107.855315
10,522.0	91.00	265.90	5,431.6	733.9	-5,247.8	1,933,187.23	2,716,542.69	36.312875	-107.855563
Last CES Survey @ 10,522' MD									
10,572.0	91.00	265.90	5,430.7	730.3	-5,297.6	1,933,183.66	2,716,492.82	36.312865	-107.855732
PTB @ 10,572'									

Design 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 L18-2409 01H PI	- actual wellpath misses target center by 22.8usft at 10572.0usft MD (5430.7 TVD, 730.3 N, -5297.6 E)	- Point	0.00	0.00	5,438.6	743.1	-5,314.8	1,933,196.44	2,716,475.61	36.312900	-107.855790
Escrito L18-2409 01H PI	- actual wellpath misses target center by 2.6usft at 6042.5usft MD (5480.8 TVD, 756.5 N, -771.8 E)	- Point	0.00	0.00	5,478.3	757.2	-771.9	1,933,210.31	2,721,018.56	36.312940	-107.840370
Interp @ 5491.5 (Escrito)	- actual wellpath misses target center by 10.7usft at 6048.5usft MD (5481.3 TVD, 756.8 N, -777.8 E)	- Point	0.00	0.00	5,491.5	759.8	-777.0	1,933,212.88	2,721,013.45	36.312947	-107.840388

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	+N/-S (usft)	+E/-W (usft)	Comment
10,522.0	5,431.6	733.9	-5,247.8		Last CES Survey @ 10,522' MD
10,572.0	5,430.7	730.3	-5,297.6		PTB @ 10,572'

Checked By: _____ Approved By: _____ Date: _____