

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

CONFIDENTIAL

☐ AMENDED REPORT

☒ As-Drilled

RCVD SEP 26 '12
OIL CONS. DIV.

WELL LOCATION AND ACREAGE DEDICATION PLAT

DIST. 3

¹ API Number 30-045-35322	² Pool Code 5890	³ Pool Name BISTI LOWER - GALLUP
⁴ Property Code 39049	⁵ Property Name ESCRITO I24-2409	⁶ Well Number 01H
⁷ GRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁹ Elevation 6880'

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
I	24	24N	9W		1935	SOUTH	205	EAST	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	24	24N	9W		1857	SOUTH	363	WEST	SAN JUAN

¹² Dedicated Acres 160.0 Acres - (N/2 S/2)	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

¹⁶ S88°15'15"W 2703.15' (MEASURED) S88°15'W 2679.60' (RECORD)	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: <u>Brenda R. Linster</u> Date: <u>09/24/12</u> Printed Name: <u>Brenda R. Linster, Regulatory Lead</u> E-mail Address: <u>brenda.linster@encana.com</u>
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: SEPT 19, 2012 Date of Survey: JULY 22, 2011 Signature and Seal of Professional Surveyor  <u>JASON C. EDWARDS</u> Certificate Number 15269	

NO 03°W 2647.92' (RECORD)
NO 07°34'E 2648.21' (MEASURED)

NO 21°E 2646.27' (RECORD)
NO 07°11'W 2643.95' (MEASURED)

NO 16°E 2647.92' (RECORD)
NO 26°34'E 2648.26' (MEASURED)

NO 21°E 2646.27' (RECORD)
NO 42°58'E 2642.72' (MEASURED)

24

363'

1857'

205'

1935'

S88°01.2'W 4761.7'

Gallup Penetration Point
1926' FSL 313' FEL

Start of Completed Interval
2030' FSL 578' FEL

S89°07'W 2651.88' (RECORD)
S88°53'33"W 2647.24' (MEASURED)

S89°07'W 2651.88' (RECORD)
S88°57'49"W 2675.41' (MEASURED)

Ar

DEVIATION SURVEYS

RCVD SEP 26 '12

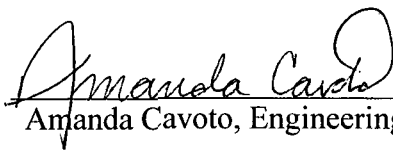
OIL CONS. DIV.

DIST. 3

MD (Feet)	Inclination (Degree)
264	0.75
520	0.5
1001	1
1498	1
2000	0.75
2500	0.5
3000	1
3500	1
4000	2
4250	1.75
4500	1
4910	0.5

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

09/24/12

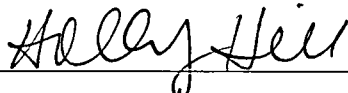
ACKNOWLEDGMENT

State of Colorado
City and County of Denver

This instrument was acknowledged before me on this 24th day of September, 2012 by Amanda Cavoto as Attorney in Fact of Encana Oil & Gas (USA) Inc., on behalf of said corporation.

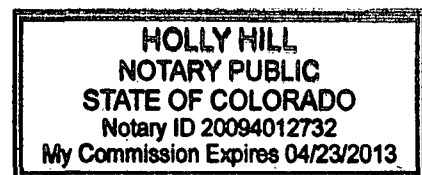
In witness whereof, I hereunto set my hand and official seal.

Notary Public:



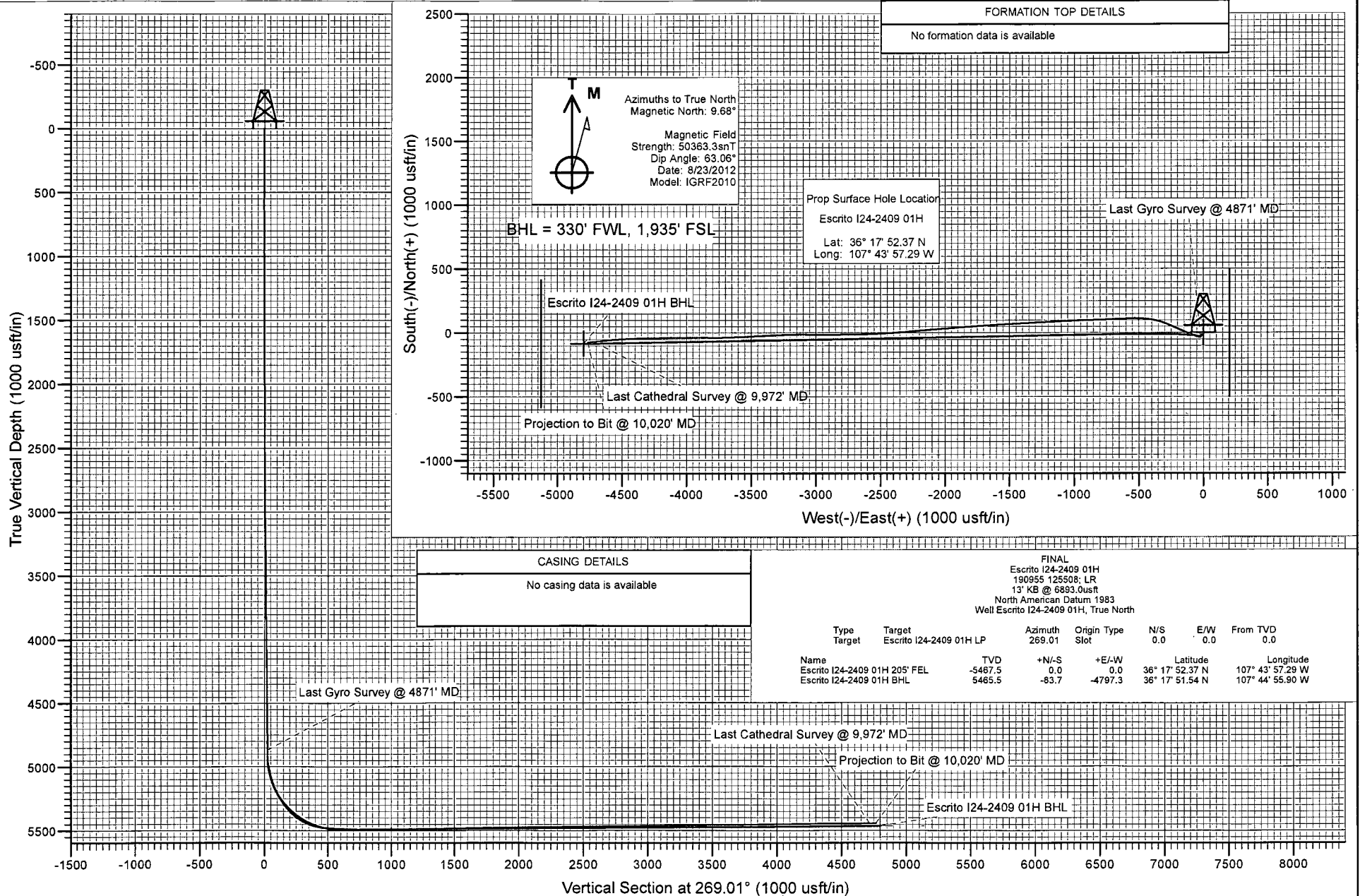
My Commission Expires:

April 23, 2013





Project: San Juan Co, NM
 Site: S24-T24N-R9W (Escrito I24)
 Well: Escrito I24-2409 01H
 Wellbore: HZ
 Design: FINAL



Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 01H	North Reference:	True
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project		San Juan Co, 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		S24-T24N-R9W (Escrito I24)			
Site Position:		Northing:	1,927,743.45 usft	Latitude:	36° 17' 52.37 N
From:	Lat/Long	Easting:	2,752,780.76 usft	Longitude:	107° 43' 57.29 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.06 °

Well	Escrito I24-2409 01H					
Well Position	+N/-S	0.0 usft	Northing:	1,927,743.45 usft	Latitude:	36° 17' 52.37 N
	+E/-W	0.0 usft	Easting:	2,752,780.76 usft	Longitude:	107° 43' 57.29 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,880.0 usft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/23/2012	9.68	63.06	50,363

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	269.01

Survey Program		Date	9/14/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
149.9	4,871.7	Gyro (HZ)	Gyro	Gyro	
4,920.0	10,020.0	Survey #2 (HZ)	MWD	Geolink MWD	

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
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	Escrito I24-2409 01H 205' FEL
149.9	0.50	120.07	149.9	-0.3	0.4	-0.4	0.33	0.33	
159.5	0.64	118.84	159.5	-0.4	0.5	-0.5	1.47	1.46	
169.2	0.47	126.90	169.2	-0.4	0.5	-0.5	1.91	-1.74	
179.1	0.54	120.71	179.1	-0.5	0.6	-0.6	0.90	0.71	
189.8	0.48	124.89	189.8	-0.5	0.7	-0.7	0.66	-0.56	
199.6	0.41	131.87	199.6	-0.6	0.8	-0.7	0.91	-0.72	
209.6	0.42	133.40	209.6	-0.6	0.8	-0.8	0.15	0.10	
217.7	0.42	137.04	217.7	-0.7	0.9	-0.8	0.33	0.00	
229.0	0.38	135.86	229.0	-0.7	0.9	-0.9	0.36	-0.35	
239.4	0.39	137.59	239.4	-0.8	1.0	-0.9	0.15	0.10	
249.3	0.38	129.97	249.3	-0.8	1.0	-1.0	0.53	-0.10	

Cathedral Energy Services

Survey Report

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Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
259.6	0.37	131.97	259.6	-0.9	1.1	-1.0	0.16	-0.10	
269.5	0.38	133.34	269.5	-0.9	1.1	-1.1	0.14	0.10	
279.9	0.40	130.78	279.9	-0.9	1.2	-1.1	0.26	0.19	
288.8	0.34	131.08	288.8	-1.0	1.2	-1.2	0.67	-0.67	
299.1	0.36	130.82	299.1	-1.0	1.2	-1.2	0.19	0.19	
309.8	0.31	135.68	309.8	-1.1	1.3	-1.3	0.54	-0.47	
319.4	0.31	130.67	319.4	-1.1	1.3	-1.3	0.28	0.00	
329.3	0.29	124.42	329.3	-1.1	1.4	-1.3	0.39	-0.20	
339.4	0.26	135.45	339.4	-1.2	1.4	-1.4	0.60	-0.30	
348.6	0.28	136.08	348.6	-1.2	1.4	-1.4	0.22	0.22	
358.9	0.28	130.56	358.9	-1.2	1.5	-1.5	0.26	0.00	
369.6	0.34	129.79	369.6	-1.3	1.5	-1.5	0.56	0.56	
378.4	0.39	125.78	378.4	-1.3	1.6	-1.5	0.64	0.57	
389.7	0.28	127.37	389.7	-1.3	1.6	-1.6	0.98	-0.97	
399.5	0.33	123.05	399.5	-1.4	1.7	-1.6	0.56	0.51	
409.2	0.31	128.13	409.2	-1.4	1.7	-1.7	0.36	-0.21	
419.5	0.22	156.38	419.5	-1.4	1.7	-1.7	1.51	-0.87	
428.5	0.21	151.42	428.5	-1.5	1.7	-1.7	0.23	-0.11	
439.9	0.24	137.61	439.9	-1.5	1.8	-1.7	0.54	0.26	
449.4	0.19	143.14	449.4	-1.5	1.8	-1.8	0.57	-0.52	
459.0	0.29	121.82	459.0	-1.6	1.8	-1.8	1.37	1.04	
470.0	0.30	118.27	470.0	-1.6	1.9	-1.8	0.19	0.09	
478.5	0.21	128.34	478.5	-1.6	1.9	-1.9	1.17	-1.05	
489.6	0.17	137.39	489.6	-1.6	1.9	-1.9	0.45	-0.36	
498.1	0.20	125.77	498.1	-1.6	2.0	-1.9	0.56	0.35	
509.1	0.27	116.34	509.1	-1.7	2.0	-2.0	0.72	0.64	
518.8	0.23	134.80	518.8	-1.7	2.0	-2.0	0.92	-0.41	
528.9	0.18	148.87	528.9	-1.7	2.0	-2.0	0.70	-0.50	
539.4	0.10	137.92	539.4	-1.7	2.1	-2.0	0.80	-0.76	
549.5	0.06	175.69	549.5	-1.8	2.1	-2.0	0.64	-0.40	
557.9	0.08	244.17	557.9	-1.8	2.1	-2.0	0.96	0.24	
569.2	0.05	202.97	569.2	-1.8	2.1	-2.0	0.47	-0.27	
579.6	0.08	215.97	579.6	-1.8	2.0	-2.0	0.32	0.29	
588.9	0.08	210.62	588.9	-1.8	2.0	-2.0	0.08	0.00	
598.4	0.05	230.80	598.4	-1.8	2.0	-2.0	0.39	-0.31	
609.5	0.06	276.03	609.5	-1.8	2.0	-2.0	0.39	0.09	
618.9	0.11	259.61	618.9	-1.8	2.0	-2.0	0.59	0.53	
629.9	0.08	254.51	629.9	-1.8	2.0	-2.0	0.28	-0.27	
639.1	0.11	242.58	639.1	-1.8	2.0	-1.9	0.39	0.33	
648.3	0.15	195.27	648.3	-1.8	2.0	-1.9	1.20	0.43	
659.4	0.11	165.31	659.4	-1.9	2.0	-1.9	0.70	-0.36	
668.9	0.05	182.99	668.9	-1.9	2.0	-1.9	0.67	-0.63	
678.9	0.09	157.22	678.9	-1.9	2.0	-1.9	0.50	0.40	
689.5	0.17	162.16	689.5	-1.9	2.0	-1.9	0.76	0.76	
699.5	0.19	161.30	699.5	-1.9	2.0	-2.0	0.20	0.20	
709.6	0.17	143.93	709.6	-2.0	2.0	-2.0	0.57	-0.20	
719.2	0.23	149.04	719.2	-2.0	2.0	-2.0	0.66	0.63	
729.5	0.29	170.20	729.5	-2.0	2.0	-2.0	1.09	0.58	
738.5	0.27	176.30	738.5	-2.1	2.0	-2.0	0.40	-0.22	
749.9	0.26	187.71	749.9	-2.1	2.0	-2.0	0.47	-0.09	
759.4	0.26	177.06	759.4	-2.2	2.0	-2.0	0.51	0.00	
768.8	0.25	162.46	768.8	-2.2	2.0	-2.0	0.70	-0.11	
779.8	0.21	180.34	779.8	-2.3	2.1	-2.0	0.74	-0.36	

Cathedral Energy Services

Survey Report

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Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
789.8	0.23	177.23	789.8	-2.3	2.1	-2.0	0.23	0.20	
798.4	0.26	170.49	798.4	-2.3	2.1	-2.0	0.48	0.35	
809.3	0.22	174.79	809.3	-2.4	2.1	-2.0	0.40	-0.37	
818.7	0.22	168.30	818.7	-2.4	2.1	-2.0	0.26	0.00	
828.3	0.23	169.76	828.3	-2.4	2.1	-2.0	0.12	0.10	
838.9	0.20	179.14	838.9	-2.5	2.1	-2.0	0.43	-0.28	
849.0	0.20	173.10	849.0	-2.5	2.1	-2.0	0.21	0.00	
859.1	0.19	185.81	859.1	-2.6	2.1	-2.0	0.44	-0.10	
869.5	0.17	183.73	869.5	-2.6	2.1	-2.0	0.20	-0.19	
878.8	0.16	190.00	878.7	-2.6	2.1	-2.0	0.22	-0.11	
889.8	0.16	183.57	889.8	-2.6	2.1	-2.0	0.16	0.00	
899.1	0.15	195.85	899.1	-2.7	2.1	-2.0	0.37	-0.11	
908.5	0.20	187.67	908.5	-2.7	2.1	-2.0	0.60	0.54	
917.9	0.18	191.70	917.8	-2.7	2.1	-2.0	0.26	-0.21	
928.9	0.13	201.87	928.9	-2.8	2.1	-2.0	0.51	-0.45	
938.9	0.12	187.70	938.9	-2.8	2.0	-2.0	0.33	-0.10	
949.1	0.06	169.42	949.1	-2.8	2.0	-2.0	0.64	-0.59	
960.0	0.07	131.51	959.9	-2.8	2.1	-2.0	0.40	0.09	
969.4	0.08	129.70	969.4	-2.8	2.1	-2.0	0.11	0.11	
979.3	0.09	158.28	979.3	-2.8	2.1	-2.0	0.43	0.10	
988.0	0.08	157.14	988.0	-2.8	2.1	-2.0	0.12	-0.12	
999.5	0.12	128.45	999.5	-2.8	2.1	-2.0	0.55	0.35	
1,008.7	0.11	86.78	1,008.7	-2.9	2.1	-2.1	0.89	-0.11	
1,019.7	0.09	116.20	1,019.7	-2.9	2.1	-2.1	0.49	-0.18	
1,029.0	0.09	120.64	1,029.0	-2.9	2.1	-2.1	0.08	0.00	
1,038.3	0.06	127.28	1,038.3	-2.9	2.1	-2.1	0.33	-0.32	
1,049.2	0.08	115.44	1,049.1	-2.9	2.2	-2.1	0.23	0.18	
1,059.4	0.09	103.30	1,059.3	-2.9	2.2	-2.1	0.20	0.10	
1,068.5	0.09	97.21	1,068.5	-2.9	2.2	-2.1	0.10	0.00	
1,078.8	0.06	93.40	1,078.8	-2.9	2.2	-2.1	0.30	-0.29	
1,088.7	0.10	95.10	1,088.7	-2.9	2.2	-2.2	0.40	0.40	
1,099.0	0.11	93.82	1,099.0	-2.9	2.2	-2.2	0.10	0.10	
1,109.1	0.08	101.58	1,109.1	-2.9	2.2	-2.2	0.32	-0.30	
1,117.6	0.04	216.18	1,117.6	-2.9	2.3	-2.2	1.20	-0.47	
1,129.2	0.04	176.50	1,129.2	-2.9	2.2	-2.2	0.23	0.00	
1,139.9	0.07	92.68	1,139.9	-2.9	2.3	-2.2	0.72	0.28	
1,148.9	0.02	75.91	1,148.9	-2.9	2.3	-2.2	0.57	-0.56	
1,159.5	0.02	52.12	1,159.5	-2.9	2.3	-2.2	0.08	0.00	
1,169.7	0.03	136.11	1,169.7	-2.9	2.3	-2.2	0.34	0.10	
1,179.4	0.03	234.23	1,179.4	-2.9	2.3	-2.2	0.47	0.00	
1,189.4	0.04	88.21	1,189.4	-2.9	2.3	-2.2	0.67	0.10	
1,199.1	0.03	135.64	1,199.1	-2.9	2.3	-2.2	0.31	-0.10	
1,209.8	0.03	43.57	1,209.8	-2.9	2.3	-2.2	0.40	0.00	
1,229.5	0.05	318.60	1,229.5	-2.9	2.3	-2.2	0.28	0.10	
1,238.5	0.08	308.95	1,238.5	-2.9	2.3	-2.2	0.36	0.33	
1,249.9	0.07	327.34	1,249.9	-2.9	2.3	-2.2	0.23	-0.09	
1,260.0	0.08	334.78	1,260.0	-2.9	2.3	-2.2	0.14	0.10	
1,269.7	0.06	325.47	1,269.7	-2.9	2.2	-2.2	0.24	-0.21	
1,279.5	0.10	317.08	1,279.5	-2.8	2.2	-2.2	0.42	0.41	
1,289.5	0.08	311.37	1,289.4	-2.8	2.2	-2.2	0.22	-0.20	
1,297.8	0.08	299.86	1,297.8	-2.8	2.2	-2.2	0.19	0.00	
1,309.1	0.05	307.78	1,309.1	-2.8	2.2	-2.2	0.28	-0.27	
1,319.9	0.05	266.55	1,319.9	-2.8	2.2	-2.1	0.33	0.00	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,328.8	0.08	280.42	1,328.8	-2.8	2.2	-2.1	0.38	0.34	
1,339.4	0.07	290.03	1,339.4	-2.8	2.2	-2.1	0.15	-0.09	
1,349.4	0.01	33.09	1,349.4	-2.8	2.2	-2.1	0.73	-0.60	
1,360.0	0.02	257.06	1,359.9	-2.8	2.2	-2.1	0.27	0.09	
1,369.7	0.07	261.03	1,369.7	-2.8	2.2	-2.1	0.51	0.51	
1,379.4	0.10	255.18	1,379.4	-2.8	2.1	-2.1	0.32	0.31	
1,387.8	0.13	264.21	1,387.8	-2.8	2.1	-2.1	0.41	0.36	
1,399.2	0.09	249.02	1,399.2	-2.8	2.1	-2.1	0.43	-0.35	
1,409.8	0.13	256.71	1,409.8	-2.8	2.1	-2.0	0.40	0.38	
1,419.1	0.14	240.47	1,419.0	-2.8	2.1	-2.0	0.42	0.11	
1,429.7	0.17	232.96	1,429.7	-2.9	2.0	-2.0	0.34	0.28	
1,438.9	0.17	232.20	1,438.9	-2.9	2.0	-2.0	0.02	0.00	
1,448.6	0.19	244.60	1,448.6	-2.9	2.0	-1.9	0.45	0.21	
1,458.6	0.23	245.96	1,458.6	-2.9	2.0	-1.9	0.40	0.40	
1,469.9	0.20	254.71	1,469.9	-2.9	1.9	-1.9	0.39	-0.27	
1,479.8	0.17	254.50	1,479.8	-2.9	1.9	-1.8	0.30	-0.30	
1,489.6	0.16	255.17	1,489.6	-2.9	1.9	-1.8	0.10	-0.10	
1,498.6	0.18	263.17	1,498.6	-2.9	1.8	-1.8	0.34	0.22	
1,509.4	0.24	272.74	1,509.4	-2.9	1.8	-1.8	0.64	0.56	
1,519.9	0.21	265.33	1,519.9	-2.9	1.8	-1.7	0.40	-0.29	
1,529.0	0.12	286.74	1,529.0	-2.9	1.7	-1.7	1.18	-0.99	
1,538.4	0.16	287.94	1,538.4	-2.9	1.7	-1.7	0.43	0.43	
1,548.5	0.15	275.13	1,548.5	-2.9	1.7	-1.6	0.35	-0.10	
1,559.8	0.19	274.51	1,559.8	-2.9	1.7	-1.6	0.36	0.36	
1,568.1	0.22	271.91	1,568.0	-2.9	1.6	-1.6	0.38	0.36	
1,578.5	0.28	274.74	1,578.5	-2.9	1.6	-1.5	0.58	0.57	
1,589.9	0.21	274.77	1,589.8	-2.9	1.5	-1.5	0.62	-0.62	
1,598.7	0.26	271.45	1,598.7	-2.9	1.5	-1.4	0.59	0.57	
1,609.4	0.25	270.04	1,609.4	-2.9	1.4	-1.4	0.11	-0.09	
1,618.5	0.12	273.76	1,618.5	-2.9	1.4	-1.4	1.45	-1.44	
1,629.9	0.18	275.20	1,629.9	-2.9	1.4	-1.3	0.53	0.53	
1,639.9	0.19	261.48	1,639.9	-2.9	1.4	-1.3	0.45	0.10	
1,649.6	0.20	246.17	1,649.6	-2.9	1.3	-1.3	0.55	0.10	
1,657.6	0.28	248.90	1,657.6	-2.9	1.3	-1.2	1.00	1.00	
1,670.0	0.31	230.55	1,670.0	-3.0	1.2	-1.2	0.80	0.24	
1,680.0	0.25	224.96	1,679.9	-3.0	1.2	-1.2	0.66	-0.60	
1,689.2	0.26	233.85	1,689.2	-3.0	1.2	-1.1	0.44	0.11	
1,698.2	0.30	234.42	1,698.2	-3.0	1.1	-1.1	0.44	0.44	
1,708.7	0.32	237.38	1,708.7	-3.1	1.1	-1.0	0.24	0.19	
1,720.0	0.31	231.53	1,720.0	-3.1	1.0	-1.0	0.30	-0.09	
1,729.9	0.34	234.62	1,729.9	-3.2	1.0	-0.9	0.35	0.30	
1,739.4	0.26	238.64	1,739.4	-3.2	1.0	-0.9	0.87	-0.84	
1,749.9	0.27	239.21	1,749.9	-3.2	0.9	-0.9	0.10	0.10	
1,758.6	0.30	229.81	1,758.6	-3.2	0.9	-0.8	0.63	0.34	
1,769.1	0.37	246.04	1,769.1	-3.3	0.8	-0.8	1.12	0.67	
1,779.6	0.43	245.47	1,779.6	-3.3	0.8	-0.7	0.57	0.57	
1,789.2	0.38	237.58	1,789.2	-3.3	0.7	-0.6	0.78	-0.52	
1,799.1	0.43	237.64	1,799.1	-3.4	0.6	-0.6	0.51	0.51	
1,808.7	0.46	235.59	1,808.7	-3.4	0.6	-0.5	0.35	0.31	
1,818.3	0.46	238.50	1,818.3	-3.4	0.5	-0.5	0.24	0.00	
1,829.0	0.48	239.02	1,829.0	-3.5	0.4	-0.4	0.19	0.19	
1,839.5	0.51	242.80	1,839.5	-3.5	0.4	-0.3	0.42	0.29	
1,849.8	0.48	240.37	1,849.8	-3.6	0.3	-0.2	0.36	-0.29	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,859.3	0.47	238.97	1,859.3	-3.6	0.2	-0.1	0.16	-0.11	
1,868.9	0.50	238.73	1,868.9	-3.7	0.1	-0.1	0.31	0.31	
1,879.9	0.52	236.89	1,879.9	-3.7	0.1	0.0	0.24	0.18	
1,887.6	0.53	235.15	1,887.6	-3.7	0.0	0.1	0.24	0.13	
1,899.3	0.55	229.49	1,899.3	-3.8	-0.1	0.2	0.49	0.17	
1,909.0	0.54	230.01	1,909.0	-3.9	-0.2	0.2	0.11	-0.10	
1,919.2	0.56	231.75	1,919.2	-3.9	-0.2	0.3	0.26	0.20	
1,929.9	0.52	228.64	1,929.9	-4.0	-0.3	0.4	0.46	-0.37	
1,939.5	0.60	229.21	1,939.5	-4.1	-0.4	0.5	0.83	0.83	
1,948.8	0.60	231.60	1,948.8	-4.1	-0.5	0.5	0.27	0.00	
1,959.1	0.61	229.62	1,959.0	-4.2	-0.5	0.6	0.23	0.10	
1,969.3	0.57	224.43	1,969.3	-4.3	-0.6	0.7	0.65	-0.39	
1,979.4	0.57	227.20	1,979.4	-4.3	-0.7	0.8	0.27	0.00	
1,989.9	0.58	230.56	1,989.9	-4.4	-0.8	0.8	0.34	0.10	
1,999.1	0.54	226.74	1,999.1	-4.5	-0.8	0.9	0.60	-0.44	
2,008.7	0.57	229.31	2,008.7	-4.5	-0.9	1.0	0.40	0.31	
2,018.9	0.59	231.73	2,018.9	-4.6	-1.0	1.1	0.31	0.20	
2,028.6	0.54	231.64	2,028.5	-4.7	-1.1	1.1	0.52	-0.52	
2,039.6	0.55	229.34	2,039.6	-4.7	-1.1	1.2	0.22	0.09	
2,049.6	0.55	232.05	2,049.5	-4.8	-1.2	1.3	0.26	0.00	
2,059.2	0.44	235.48	2,059.1	-4.8	-1.3	1.4	1.19	-1.15	
2,068.4	0.40	234.98	2,068.4	-4.9	-1.3	1.4	0.44	-0.43	
2,078.0	0.47	245.25	2,077.9	-4.9	-1.4	1.5	1.09	0.73	
2,088.7	0.44	250.70	2,088.7	-4.9	-1.5	1.6	0.49	-0.28	
2,098.9	0.42	248.11	2,098.9	-5.0	-1.6	1.6	0.27	-0.20	
2,109.2	0.44	246.90	2,109.1	-5.0	-1.6	1.7	0.21	0.20	
2,119.2	0.41	251.94	2,119.2	-5.0	-1.7	1.8	0.48	-0.30	
2,129.4	0.41	258.17	2,129.4	-5.0	-1.8	1.8	0.44	0.00	
2,138.5	0.35	248.20	2,138.5	-5.1	-1.8	1.9	0.98	-0.66	
2,148.8	0.36	243.38	2,148.8	-5.1	-1.9	2.0	0.31	0.10	
2,159.0	0.37	252.85	2,159.0	-5.1	-1.9	2.0	0.60	0.10	
2,169.9	0.35	251.33	2,169.9	-5.1	-2.0	2.1	0.20	-0.18	
2,179.5	0.33	257.28	2,179.5	-5.1	-2.1	2.1	0.42	-0.21	
2,188.9	0.31	259.90	2,188.9	-5.1	-2.1	2.2	0.26	-0.21	
2,198.4	0.40	260.17	2,198.4	-5.2	-2.2	2.3	0.95	0.95	
2,209.3	0.39	259.60	2,209.2	-5.2	-2.2	2.3	0.10	-0.09	
2,219.4	0.36	265.14	2,219.4	-5.2	-2.3	2.4	0.46	-0.30	
2,229.6	0.29	265.57	2,229.5	-5.2	-2.4	2.5	0.69	-0.69	
2,238.7	0.35	262.63	2,238.7	-5.2	-2.4	2.5	0.68	0.65	
2,249.7	0.29	264.28	2,249.7	-5.2	-2.5	2.6	0.55	-0.55	
2,258.9	0.32	270.45	2,258.9	-5.2	-2.5	2.6	0.49	0.33	
2,269.1	0.28	270.17	2,269.1	-5.2	-2.6	2.7	0.39	-0.39	
2,279.1	0.28	261.64	2,279.1	-5.2	-2.6	2.7	0.41	0.00	
2,289.1	0.28	263.65	2,289.0	-5.2	-2.7	2.8	0.10	0.00	
2,299.6	0.21	265.19	2,299.5	-5.2	-2.7	2.8	0.67	-0.67	
2,308.8	0.24	256.04	2,308.7	-5.2	-2.8	2.8	0.51	0.33	
2,318.3	0.22	253.16	2,318.3	-5.2	-2.8	2.9	0.24	-0.21	
2,329.2	0.20	239.06	2,329.1	-5.2	-2.8	2.9	0.51	-0.18	
2,339.4	0.29	237.85	2,339.3	-5.3	-2.9	3.0	0.88	0.88	
2,349.6	0.31	234.62	2,349.6	-5.3	-2.9	3.0	0.25	0.19	
2,358.6	0.31	217.26	2,358.6	-5.3	-2.9	3.0	1.05	0.00	
2,369.8	0.34	222.16	2,369.8	-5.4	-3.0	3.1	0.36	0.27	
2,379.0	0.33	217.52	2,379.0	-5.4	-3.0	3.1	0.31	-0.11	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
2,389.2	0.35	214.85	2,389.2	-5.5	-3.1	3.2	0.25	0.20	
2,398.5	0.36	218.42	2,398.5	-5.5	-3.1	3.2	0.26	0.11	
2,409.9	0.40	220.66	2,409.9	-5.6	-3.1	3.2	0.37	0.35	
2,419.2	0.39	205.90	2,419.1	-5.6	-3.2	3.3	1.10	-0.11	
2,430.0	0.41	215.17	2,429.9	-5.7	-3.2	3.3	0.63	0.19	
2,437.9	0.43	224.13	2,437.9	-5.7	-3.2	3.3	0.86	0.25	
2,448.6	0.49	224.16	2,448.6	-5.8	-3.3	3.4	0.56	0.56	
2,458.5	0.50	219.12	2,458.5	-5.9	-3.4	3.5	0.45	0.10	
2,468.5	0.50	219.51	2,468.4	-5.9	-3.4	3.5	0.03	0.00	
2,479.8	0.52	215.91	2,479.8	-6.0	-3.5	3.6	0.33	0.18	
2,488.3	0.53	215.12	2,488.3	-6.1	-3.5	3.6	0.15	0.12	
2,498.6	0.53	220.31	2,498.6	-6.1	-3.6	3.7	0.47	0.00	
2,508.7	0.48	217.48	2,508.6	-6.2	-3.6	3.7	0.55	-0.50	
2,518.6	0.60	235.02	2,518.6	-6.3	-3.7	3.8	2.05	1.21	
2,528.7	0.62	239.63	2,528.7	-6.3	-3.8	3.9	0.53	0.20	
2,538.3	0.45	181.87	2,538.3	-6.4	-3.8	4.0	5.58	-1.76	
2,548.9	0.57	222.25	2,548.9	-6.5	-3.9	4.0	3.49	1.13	
2,559.8	0.61	225.91	2,559.7	-6.6	-4.0	4.1	0.51	0.37	
2,569.2	0.55	227.88	2,569.2	-6.6	-4.0	4.1	0.67	-0.64	
2,579.8	0.60	227.59	2,579.7	-6.7	-4.1	4.2	0.47	0.47	
2,589.5	0.62	228.07	2,589.5	-6.8	-4.2	4.3	0.21	0.20	
2,598.8	0.63	230.57	2,598.8	-6.8	-4.3	4.4	0.31	0.11	
2,608.6	0.62	234.19	2,608.5	-6.9	-4.3	4.5	0.42	-0.10	
2,618.5	0.57	228.78	2,618.4	-7.0	-4.4	4.5	0.76	-0.51	
2,628.9	0.62	234.00	2,628.8	-7.0	-4.5	4.6	0.71	0.48	
2,638.9	0.59	236.46	2,638.8	-7.1	-4.6	4.7	0.40	-0.30	
2,648.8	0.57	239.59	2,648.8	-7.1	-4.7	4.8	0.38	-0.20	
2,659.3	0.63	239.42	2,659.3	-7.2	-4.8	4.9	0.57	0.57	
2,669.2	0.58	231.73	2,669.2	-7.3	-4.9	5.0	0.97	-0.51	
2,679.3	0.52	224.47	2,679.2	-7.3	-4.9	5.1	0.91	-0.60	
2,689.7	0.55	223.32	2,689.6	-7.4	-5.0	5.1	0.31	0.29	
2,698.9	0.50	224.32	2,698.9	-7.5	-5.1	5.2	0.55	-0.54	
2,709.1	0.48	222.16	2,709.1	-7.5	-5.1	5.3	0.27	-0.20	
2,719.2	0.55	225.61	2,719.2	-7.6	-5.2	5.3	0.76	0.70	
2,729.1	0.51	226.64	2,729.0	-7.6	-5.3	5.4	0.42	-0.41	
2,739.5	0.51	225.20	2,739.5	-7.7	-5.3	5.5	0.12	0.00	
2,748.8	0.51	229.72	2,748.8	-7.8	-5.4	5.5	0.43	0.00	
2,759.4	0.57	221.20	2,759.3	-7.8	-5.4	5.6	0.95	0.57	
2,769.2	0.52	213.49	2,769.2	-7.9	-5.5	5.6	0.90	-0.51	
2,779.1	0.56	216.26	2,779.0	-8.0	-5.6	5.7	0.48	0.41	
2,789.4	0.61	215.11	2,789.4	-8.1	-5.6	5.8	0.50	0.48	
2,798.8	0.64	214.41	2,798.7	-8.2	-5.7	5.8	0.33	0.32	
2,809.3	0.68	217.51	2,809.3	-8.3	-5.8	5.9	0.51	0.38	
2,819.2	0.67	214.31	2,819.1	-8.4	-5.8	6.0	0.40	-0.10	
2,829.8	0.75	222.26	2,829.8	-8.5	-5.9	6.0	1.19	0.75	
2,839.6	0.76	220.66	2,839.5	-8.5	-6.0	6.1	0.24	0.10	
2,848.7	0.74	221.86	2,848.7	-8.6	-6.1	6.2	0.28	-0.22	
2,859.3	0.74	215.24	2,859.2	-8.7	-6.1	6.3	0.81	0.00	
2,869.1	0.77	216.03	2,869.0	-8.9	-6.2	6.4	0.32	0.31	
2,878.9	0.76	220.19	2,878.9	-9.0	-6.3	6.5	0.57	-0.10	
2,889.5	0.71	219.27	2,889.4	-9.1	-6.4	6.5	0.49	-0.47	
2,900.0	0.74	222.35	2,899.9	-9.2	-6.5	6.6	0.47	0.29	
2,909.8	0.68	220.14	2,909.7	-9.3	-6.6	6.7	0.67	-0.61	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
2,918.8	0.66	221.17	2,918.7	-9.3	-6.6	6.8	0.26	-0.22	
2,928.7	0.61	216.66	2,928.6	-9.4	-6.7	6.9	0.72	-0.51	
2,939.3	0.61	215.83	2,939.2	-9.5	-6.8	6.9	0.08	0.00	
2,948.5	0.67	214.25	2,948.4	-9.6	-6.8	7.0	0.68	0.65	
2,959.0	0.68	213.51	2,958.9	-9.7	-6.9	7.1	0.13	0.09	
2,968.9	0.68	208.77	2,968.8	-9.8	-7.0	7.1	0.57	0.00	
2,978.5	0.74	208.54	2,978.4	-9.9	-7.0	7.2	0.62	0.62	
2,988.5	0.76	208.58	2,988.4	-10.0	-7.1	7.2	0.20	0.20	
2,998.6	0.82	213.72	2,998.5	-10.1	-7.1	7.3	0.92	0.59	
3,009.4	0.87	220.54	3,009.3	-10.3	-7.2	7.4	1.04	0.46	
3,019.2	0.77	213.04	3,019.1	-10.4	-7.3	7.5	1.50	-1.02	
3,029.2	0.76	206.29	3,029.1	-10.5	-7.4	7.6	0.91	-0.10	
3,040.0	0.82	213.99	3,039.9	-10.6	-7.5	7.6	1.12	0.55	
3,048.8	0.89	221.72	3,048.7	-10.7	-7.5	7.7	1.53	0.80	
3,059.1	0.97	225.38	3,059.1	-10.8	-7.7	7.8	0.96	0.77	
3,068.4	0.97	225.59	3,068.3	-10.9	-7.8	8.0	0.04	0.00	
3,078.4	0.95	223.93	3,078.4	-11.1	-7.9	8.1	0.34	-0.20	
3,088.9	1.14	233.99	3,088.8	-11.2	-8.0	8.2	2.52	1.82	
3,098.6	1.90	252.93	3,098.5	-11.3	-8.3	8.5	9.30	7.84	
3,099.9	2.09	254.57	3,099.8	-11.3	-8.3	8.5	15.03	14.39	
3,101.1	1.36	242.40	3,101.0	-11.3	-8.3	8.5	67.73	-60.83	
3,109.8	0.86	210.64	3,109.7	-11.4	-8.5	8.7	8.93	-5.76	
3,119.7	0.87	207.05	3,119.6	-11.6	-8.5	8.7	0.56	0.10	
3,129.9	1.00	210.36	3,129.8	-11.7	-8.6	8.8	1.38	1.27	
3,139.6	1.04	211.67	3,139.5	-11.8	-8.7	8.9	0.48	0.41	
3,149.6	1.07	213.23	3,149.5	-12.0	-8.8	9.0	0.41	0.30	
3,158.7	1.06	216.38	3,158.6	-12.1	-8.9	9.1	0.66	-0.11	
3,169.1	1.03	215.86	3,169.0	-12.3	-9.0	9.2	0.30	-0.29	
3,178.4	1.03	218.04	3,178.3	-12.4	-9.1	9.3	0.42	0.00	
3,189.7	0.98	217.00	3,189.6	-12.6	-9.2	9.5	0.47	-0.44	
3,199.0	0.98	213.32	3,198.9	-12.7	-9.3	9.6	0.68	0.00	
3,209.4	0.98	213.14	3,209.3	-12.9	-9.4	9.7	0.03	0.00	
3,219.1	0.94	216.04	3,219.0	-13.0	-9.5	9.7	0.65	-0.41	
3,228.7	0.95	217.41	3,228.6	-13.1	-9.6	9.8	0.26	0.10	
3,239.1	0.91	214.61	3,239.0	-13.3	-9.7	9.9	0.58	-0.38	
3,248.5	0.92	213.95	3,248.4	-13.4	-9.8	10.0	0.15	0.11	
3,259.8	0.93	211.33	3,259.7	-13.5	-9.9	10.1	0.38	0.09	
3,269.3	0.92	212.21	3,269.2	-13.7	-10.0	10.2	0.18	-0.11	
3,279.6	0.92	210.60	3,279.4	-13.8	-10.1	10.3	0.25	0.00	
3,288.5	0.94	210.44	3,288.3	-13.9	-10.1	10.4	0.23	0.22	
3,298.9	0.95	211.93	3,298.8	-14.1	-10.2	10.5	0.25	0.10	
3,309.2	0.95	212.46	3,309.1	-14.2	-10.3	10.6	0.09	0.00	
3,318.3	0.92	212.13	3,318.2	-14.4	-10.4	10.6	0.33	-0.33	
3,329.8	0.91	211.75	3,329.7	-14.5	-10.5	10.7	0.10	-0.09	
3,339.2	0.95	212.73	3,339.1	-14.6	-10.6	10.8	0.46	0.43	
3,349.4	0.95	208.94	3,349.3	-14.8	-10.7	10.9	0.61	0.00	
3,358.9	0.98	211.03	3,358.8	-14.9	-10.7	11.0	0.49	0.32	
3,368.4	0.95	211.16	3,368.3	-15.1	-10.8	11.1	0.32	-0.32	
3,378.6	0.95	213.55	3,378.5	-15.2	-10.9	11.2	0.39	0.00	
3,389.7	0.95	211.37	3,389.6	-15.4	-11.0	11.3	0.32	0.00	
3,399.4	0.93	215.07	3,399.2	-15.5	-11.1	11.4	0.66	-0.21	
3,408.8	0.93	216.42	3,408.7	-15.6	-11.2	11.5	0.23	0.00	
3,418.9	0.91	216.60	3,418.8	-15.7	-11.3	11.6	0.20	-0.20	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
3,429.5	0.88	216.53	3,429.3	-15.9	-11.4	11.7	0.28	-0.28	
3,439.7	0.83	217.05	3,439.5	-16.0	-11.5	11.8	0.50	-0.49	
3,448.6	0.83	216.89	3,448.5	-16.1	-11.6	11.8	0.03	0.00	
3,459.4	0.83	219.31	3,459.3	-16.2	-11.7	11.9	0.32	0.00	
3,469.3	0.79	217.99	3,469.2	-16.3	-11.7	12.0	0.44	-0.40	
3,478.6	0.81	217.12	3,478.5	-16.4	-11.8	12.1	0.25	0.22	
3,489.5	0.79	215.77	3,489.4	-16.6	-11.9	12.2	0.25	-0.18	
3,499.1	0.79	215.01	3,499.0	-16.7	-12.0	12.3	0.11	0.00	
3,507.8	0.82	212.56	3,507.7	-16.8	-12.1	12.3	0.52	0.34	
3,519.5	0.83	204.59	3,519.4	-16.9	-12.1	12.4	0.98	0.09	
3,529.7	0.86	201.60	3,529.5	-17.1	-12.2	12.5	0.53	0.30	
3,538.5	0.86	202.16	3,538.4	-17.2	-12.2	12.5	0.10	0.00	
3,549.5	0.86	201.05	3,549.3	-17.3	-12.3	12.6	0.15	0.00	
3,559.5	0.88	199.92	3,559.4	-17.5	-12.4	12.7	0.26	0.20	
3,569.2	0.94	200.01	3,569.1	-17.6	-12.4	12.7	0.62	0.62	
3,578.6	0.97	201.56	3,578.5	-17.8	-12.5	12.8	0.42	0.32	
3,589.0	1.04	199.78	3,588.9	-17.9	-12.5	12.8	0.74	0.67	
3,600.0	1.05	202.67	3,599.8	-18.1	-12.6	12.9	0.49	0.09	
3,608.0	1.05	203.94	3,607.9	-18.3	-12.7	13.0	0.29	0.00	
3,619.0	1.11	205.93	3,618.9	-18.4	-12.7	13.1	0.64	0.54	
3,629.5	1.09	202.37	3,629.3	-18.6	-12.8	13.1	0.68	-0.19	
3,639.7	1.12	205.50	3,639.6	-18.8	-12.9	13.2	0.66	0.29	
3,649.0	1.09	207.03	3,648.8	-19.0	-13.0	13.3	0.46	-0.32	
3,659.9	1.06	206.13	3,659.7	-19.2	-13.1	13.4	0.32	-0.28	
3,668.5	1.06	205.67	3,668.3	-19.3	-13.1	13.5	0.10	0.00	
3,679.4	1.05	206.77	3,679.3	-19.5	-13.2	13.6	0.21	-0.09	
3,689.6	1.04	204.55	3,689.4	-19.6	-13.3	13.7	0.41	-0.10	
3,698.3	1.04	205.41	3,698.1	-19.8	-13.4	13.7	0.18	0.00	
3,708.5	1.06	206.81	3,708.3	-20.0	-13.5	13.8	0.32	0.20	
3,719.4	1.06	207.75	3,719.3	-20.1	-13.6	13.9	0.16	0.00	
3,728.9	1.10	208.89	3,728.8	-20.3	-13.6	14.0	0.48	0.42	
3,739.8	1.09	206.90	3,739.6	-20.5	-13.7	14.1	0.36	-0.09	
3,749.9	1.09	206.33	3,749.8	-20.6	-13.8	14.2	0.11	0.00	
3,759.9	1.06	206.37	3,759.7	-20.8	-13.9	14.3	0.30	-0.30	
3,768.8	1.08	204.74	3,768.6	-21.0	-14.0	14.3	0.41	0.22	
3,779.9	1.14	203.94	3,779.7	-21.2	-14.1	14.4	0.56	0.54	
3,789.2	1.14	206.34	3,789.0	-21.3	-14.1	14.5	0.51	0.00	
3,799.2	1.16	206.12	3,799.0	-21.5	-14.2	14.6	0.20	0.20	
3,808.4	1.17	204.03	3,808.2	-21.7	-14.3	14.7	0.48	0.11	
3,819.8	1.29	211.12	3,819.6	-21.9	-14.4	14.8	1.70	1.05	
3,829.1	1.28	202.22	3,828.9	-22.1	-14.5	14.9	2.15	-0.11	
3,839.5	1.35	200.98	3,839.3	-22.3	-14.6	15.0	0.72	0.67	
3,849.5	1.37	202.38	3,849.3	-22.5	-14.7	15.1	0.39	0.20	
3,859.6	1.41	205.08	3,859.4	-22.7	-14.8	15.2	0.77	0.40	
3,867.9	1.44	206.40	3,867.7	-22.9	-14.9	15.3	0.53	0.36	
3,879.3	1.45	203.77	3,879.1	-23.2	-15.0	15.4	0.59	0.09	
3,889.4	1.49	205.10	3,889.2	-23.4	-15.1	15.5	0.52	0.40	
3,898.0	1.54	207.71	3,897.8	-23.6	-15.2	15.6	0.99	0.58	
3,908.6	1.56	208.77	3,908.4	-23.9	-15.4	15.8	0.33	0.19	
3,918.7	1.51	208.31	3,918.5	-24.1	-15.5	15.9	0.51	-0.50	
3,928.7	1.42	211.21	3,928.5	-24.3	-15.6	16.0	1.17	-0.90	
3,939.4	1.35	211.71	3,939.1	-24.6	-15.7	16.2	0.67	-0.66	
3,948.7	1.29	211.48	3,948.4	-24.7	-15.9	16.3	0.65	-0.65	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
3,959.4	1.32	212.99	3,959.1	-25.0	-16.0	16.4	0.43	0.28	
3,969.4	1.36	211.70	3,969.1	-25.2	-16.1	16.5	0.50	0.40	
3,979.4	1.27	209.23	3,979.1	-25.3	-16.2	16.7	1.06	-0.90	
3,989.9	1.25	207.20	3,989.7	-25.6	-16.3	16.8	0.46	-0.19	
3,999.3	1.22	204.72	3,999.1	-25.7	-16.4	16.9	0.65	-0.32	
4,008.4	1.24	203.08	4,008.2	-25.9	-16.5	17.0	0.45	0.22	
4,018.5	1.27	202.19	4,018.3	-26.1	-16.6	17.0	0.35	0.30	
4,030.0	1.29	203.34	4,029.7	-26.4	-16.7	17.1	0.28	0.17	
4,039.0	1.32	202.18	4,038.8	-26.5	-16.8	17.2	0.44	0.33	
4,050.0	1.37	201.22	4,049.7	-26.8	-16.9	17.3	0.50	0.46	
4,059.2	1.38	202.66	4,058.9	-27.0	-16.9	17.4	0.39	0.11	
4,069.1	1.38	202.61	4,068.9	-27.2	-17.0	17.5	0.01	0.00	
4,079.1	1.37	202.03	4,078.8	-27.4	-17.1	17.6	0.17	-0.10	
4,089.7	1.35	203.39	4,089.4	-27.7	-17.2	17.7	0.36	-0.19	
4,098.8	1.30	204.18	4,098.6	-27.9	-17.3	17.8	0.58	-0.55	
4,109.8	1.34	206.25	4,109.5	-28.1	-17.4	17.9	0.57	0.37	
4,119.8	1.32	205.85	4,119.5	-28.3	-17.5	18.0	0.22	-0.20	
4,129.7	1.27	207.49	4,129.5	-28.5	-17.6	18.1	0.62	-0.50	
4,138.2	1.27	207.61	4,137.9	-28.7	-17.7	18.2	0.03	0.00	
4,149.7	1.30	207.84	4,149.4	-28.9	-17.8	18.3	0.27	0.26	
4,159.5	1.25	207.09	4,159.3	-29.1	-17.9	18.4	0.53	-0.51	
4,168.1	1.22	209.45	4,167.8	-29.2	-18.0	18.5	0.69	-0.35	
4,178.7	1.20	209.06	4,178.4	-29.4	-18.1	18.6	0.20	-0.19	
4,188.8	1.21	211.40	4,188.5	-29.6	-18.2	18.7	0.50	0.10	
4,199.5	1.19	209.89	4,199.2	-29.8	-18.3	18.9	0.35	-0.19	
4,209.4	1.17	210.71	4,209.1	-30.0	-18.5	19.0	0.26	-0.20	
4,218.8	1.13	213.74	4,218.5	-30.2	-18.6	19.1	0.77	-0.42	
4,229.5	1.09	211.37	4,229.2	-30.3	-18.7	19.2	0.57	-0.37	
4,239.4	0.97	207.54	4,239.1	-30.5	-18.8	19.3	1.39	-1.21	
4,249.5	0.90	205.56	4,249.2	-30.6	-18.8	19.4	0.77	-0.70	
4,258.6	0.86	205.10	4,258.3	-30.8	-18.9	19.4	0.45	-0.44	
4,269.6	0.82	202.44	4,269.3	-30.9	-18.9	19.5	0.51	-0.36	
4,278.8	0.82	205.41	4,278.5	-31.0	-19.0	19.5	0.46	0.00	
4,289.2	0.82	211.06	4,288.9	-31.2	-19.1	19.6	0.77	0.00	
4,299.2	0.75	213.01	4,298.9	-31.3	-19.1	19.7	0.75	-0.70	
4,309.8	0.69	210.24	4,309.5	-31.4	-19.2	19.8	0.65	-0.56	
4,319.0	0.65	212.02	4,318.6	-31.5	-19.3	19.8	0.49	-0.44	
4,329.0	0.66	215.17	4,328.7	-31.6	-19.3	19.9	0.37	0.10	
4,339.7	0.61	222.32	4,339.4	-31.7	-19.4	20.0	0.87	-0.47	
4,349.6	0.56	224.35	4,349.3	-31.7	-19.5	20.0	0.55	-0.51	
4,357.8	0.58	222.83	4,357.5	-31.8	-19.5	20.1	0.31	0.24	
4,369.4	0.63	221.77	4,369.1	-31.9	-19.6	20.2	0.44	0.43	
4,379.1	0.65	222.98	4,378.8	-32.0	-19.7	20.2	0.25	0.21	
4,389.6	0.67	222.65	4,389.3	-32.1	-19.8	20.3	0.19	0.19	
4,399.2	0.59	224.98	4,398.9	-32.1	-19.8	20.4	0.88	-0.84	
4,409.1	0.56	225.08	4,408.8	-32.2	-19.9	20.5	0.30	-0.30	
4,419.0	0.61	224.10	4,418.7	-32.3	-20.0	20.5	0.51	0.50	
4,429.5	0.68	221.98	4,429.2	-32.4	-20.1	20.6	0.70	0.66	
4,439.2	0.73	223.04	4,438.8	-32.4	-20.1	20.7	0.54	0.52	
4,449.3	0.75	220.48	4,449.0	-32.5	-20.2	20.8	0.38	0.20	
4,459.2	0.73	217.54	4,458.9	-32.6	-20.3	20.9	0.43	-0.20	
4,469.2	0.71	213.46	4,468.9	-32.7	-20.4	21.0	0.55	-0.20	
4,479.6	0.71	208.06	4,479.3	-32.9	-20.5	21.0	0.64	0.00	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
4,489.8	0.67	204.64	4,489.5	-33.0	-20.5	21.1	0.56	-0.39	
4,499.8	0.60	201.74	4,499.5	-33.1	-20.6	21.1	0.77	-0.70	
4,508.7	0.57	203.98	4,508.4	-33.2	-20.6	21.2	0.43	-0.34	
4,519.1	0.60	217.29	4,518.8	-33.2	-20.6	21.2	1.33	0.29	
4,528.8	0.74	235.32	4,528.5	-33.3	-20.7	21.3	2.60	1.45	
4,538.9	0.75	231.32	4,538.6	-33.4	-20.8	21.4	0.52	0.10	
4,543.7	0.91	236.40	4,543.4	-33.4	-20.9	21.5	3.64	3.31	
4,548.0	0.67	198.97	4,547.7	-33.5	-20.9	21.5	13.04	-5.63	
4,559.0	0.63	201.43	4,558.7	-33.6	-21.0	21.5	0.44	-0.36	
4,569.3	0.60	206.72	4,568.9	-33.7	-21.0	21.6	0.62	-0.29	
4,579.6	0.62	211.85	4,579.2	-33.8	-21.1	21.6	0.56	0.19	
4,588.7	0.76	216.44	4,588.4	-33.9	-21.1	21.7	1.65	1.53	
4,599.6	0.70	202.28	4,599.2	-34.0	-21.2	21.8	1.75	-0.55	
4,608.6	0.60	201.05	4,608.3	-34.1	-21.2	21.8	1.12	-1.11	
4,618.6	0.65	203.38	4,618.3	-34.2	-21.3	21.9	0.56	0.50	
4,629.6	0.70	201.52	4,629.3	-34.3	-21.3	21.9	0.50	0.46	
4,639.5	0.71	216.16	4,639.2	-34.4	-21.4	22.0	1.81	0.10	
4,649.9	0.74	216.29	4,649.6	-34.5	-21.5	22.1	0.29	0.29	
4,659.6	0.71	220.22	4,659.3	-34.6	-21.5	22.1	0.60	-0.31	
4,669.8	0.72	211.95	4,669.4	-34.7	-21.6	22.2	1.02	0.10	
4,678.7	0.76	205.27	4,678.4	-34.8	-21.7	22.3	1.06	0.45	
4,688.8	0.69	201.13	4,688.5	-34.9	-21.7	22.3	0.87	-0.70	
4,698.8	0.63	206.09	4,698.4	-35.1	-21.8	22.4	0.83	-0.60	
4,709.7	0.64	212.04	4,709.3	-35.2	-21.8	22.4	0.61	0.09	
4,719.3	0.73	213.15	4,719.0	-35.3	-21.9	22.5	0.94	0.93	
4,729.5	0.75	207.02	4,729.2	-35.4	-21.9	22.6	0.80	0.20	
4,739.6	0.67	203.61	4,739.2	-35.5	-22.0	22.6	0.90	-0.80	
4,748.6	0.65	202.31	4,748.2	-35.6	-22.0	22.7	0.28	-0.22	
4,759.3	0.65	206.72	4,758.9	-35.7	-22.1	22.7	0.47	0.00	
4,770.0	0.75	207.67	4,769.6	-35.8	-22.1	22.8	0.94	0.93	
4,779.4	0.77	205.56	4,779.1	-35.9	-22.2	22.8	0.37	0.21	
4,788.8	0.69	196.18	4,788.4	-36.0	-22.2	22.9	1.53	-0.85	
4,799.0	0.67	209.22	4,798.7	-36.1	-22.3	22.9	1.52	-0.20	
4,809.1	0.76	227.73	4,808.8	-36.2	-22.4	23.0	2.44	0.89	
4,818.9	0.78	219.34	4,818.6	-36.3	-22.5	23.1	1.17	0.20	
4,829.6	0.67	199.58	4,829.3	-36.4	-22.5	23.2	2.53	-1.03	
4,839.4	0.55	205.88	4,839.0	-36.5	-22.6	23.2	1.41	-1.23	
4,849.9	0.71	220.01	4,849.6	-36.6	-22.6	23.3	2.10	1.51	
4,859.6	0.70	210.20	4,859.2	-36.7	-22.7	23.3	1.26	-0.10	
4,869.5	0.75	232.43	4,869.2	-36.8	-22.8	23.4	2.85	0.50	
4,870.6	0.77	233.94	4,870.3	-36.8	-22.8	23.4	2.53	1.79	
4,871.7	0.53	197.54	4,871.3	-36.8	-22.8	23.4	44.35	-22.86	Last Gyro Survey @ 4871' MD
4,920.0	0.70	222.80	4,919.6	-37.3	-23.1	23.7	0.65	0.35	
4,952.0	5.00	274.90	4,951.6	-37.3	-24.6	25.2	14.38	13.44	
4,983.0	10.20	271.60	4,982.3	-37.1	-28.7	29.3	16.83	16.77	
5,015.0	12.90	273.40	5,013.7	-36.8	-35.1	35.7	8.51	8.44	
5,047.0	13.70	290.30	5,044.8	-35.3	-42.2	42.8	12.36	2.50	
5,079.0	16.00	289.30	5,075.7	-32.5	-49.9	50.5	7.23	7.19	
5,110.0	18.50	293.80	5,105.4	-29.1	-58.5	59.0	9.14	8.06	
5,142.0	21.90	292.30	5,135.4	-24.8	-68.6	69.0	10.75	10.63	
5,174.0	24.80	292.10	5,164.8	-20.0	-80.4	80.7	9.07	9.06	
5,206.0	27.50	290.30	5,193.5	-14.9	-93.5	93.8	8.79	8.44	
5,238.0	30.40	290.80	5,221.5	-9.5	-108.0	108.2	9.09	9.06	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
5,269.0	33.10	292.00	5,247.8	-3.5	-123.2	123.2	8.94	8.71	
5,301.0	36.00	293.10	5,274.2	3.4	-140.0	139.9	9.27	9.06	
5,332.0	39.20	293.70	5,298.7	11.0	-157.3	157.1	10.39	10.32	
5,364.0	42.60	294.50	5,322.9	19.5	-176.4	176.1	10.75	10.63	
5,396.0	46.20	294.90	5,345.8	28.9	-196.8	196.2	11.28	11.25	
5,428.0	49.80	295.20	5,367.2	38.9	-218.3	217.6	11.27	11.25	
5,459.0	53.40	294.50	5,386.5	49.1	-240.4	239.5	11.75	11.61	
5,491.0	57.00	292.90	5,404.7	59.7	-264.4	263.3	11.98	11.25	
5,523.0	61.30	291.40	5,421.1	70.0	-289.9	288.6	14.03	13.44	
5,555.0	65.10	288.90	5,435.5	79.9	-316.7	315.2	13.77	11.88	
5,586.0	68.10	285.10	5,447.9	88.2	-343.9	342.3	14.83	9.67	
5,618.0	71.80	282.80	5,458.8	95.4	-373.0	371.3	13.39	11.56	
5,649.0	75.50	281.00	5,467.6	101.5	-402.1	400.3	13.17	11.94	
5,694.0	80.70	275.00	5,476.8	107.6	-445.7	443.8	17.43	11.56	
5,725.0	83.60	272.10	5,481.1	109.5	-476.3	474.4	13.17	9.35	
5,756.0	86.70	269.90	5,483.7	110.1	-507.2	505.2	12.25	10.00	
5,786.0	87.00	269.60	5,485.3	109.9	-537.2	535.2	1.41	1.00	
5,817.0	88.20	268.30	5,486.6	109.4	-568.1	566.2	5.70	3.87	
5,847.0	88.60	268.10	5,487.5	108.4	-598.1	596.2	1.49	1.33	
5,878.0	89.20	268.60	5,488.1	107.5	-629.1	627.1	2.52	1.94	
5,910.0	89.00	268.10	5,488.6	106.6	-661.1	659.1	1.68	-0.63	
5,942.0	87.50	267.20	5,489.6	105.3	-693.0	691.1	5.47	-4.69	
5,973.0	87.50	267.20	5,490.9	103.8	-724.0	722.1	0.00	0.00	
6,037.0	89.70	267.60	5,492.5	100.9	-787.9	786.0	3.49	3.44	
6,100.0	90.90	268.30	5,492.1	98.6	-850.8	849.0	2.21	1.90	
6,164.0	91.20	267.90	5,491.0	96.5	-914.8	913.0	0.78	0.47	
6,227.0	90.80	268.10	5,489.9	94.3	-977.7	976.0	0.71	-0.63	
6,291.0	89.70	267.20	5,489.6	91.7	-1,041.7	1,039.9	2.22	-1.72	
6,354.0	90.10	267.40	5,489.7	88.7	-1,104.6	1,102.9	0.71	0.63	
6,418.0	90.70	267.30	5,489.3	85.8	-1,168.6	1,166.9	0.95	0.94	
6,482.0	91.10	267.50	5,488.2	82.9	-1,232.5	1,230.9	0.70	0.63	
6,545.0	91.50	267.60	5,486.8	80.2	-1,295.4	1,293.8	0.65	0.63	
6,608.0	90.30	265.70	5,485.8	76.5	-1,358.3	1,356.8	3.57	-1.90	
6,672.0	90.60	265.80	5,485.3	71.8	-1,422.1	1,420.6	0.49	0.47	
6,735.0	91.20	266.30	5,484.3	67.4	-1,484.9	1,483.6	1.24	0.95	
6,799.0	91.90	266.70	5,482.6	63.5	-1,548.8	1,547.5	1.26	1.09	
6,862.0	90.30	266.80	5,481.4	59.9	-1,611.7	1,610.4	2.54	-2.54	
6,926.0	90.30	266.60	5,481.1	56.3	-1,675.6	1,674.4	0.31	0.00	
6,989.0	90.60	266.80	5,480.6	52.6	-1,738.5	1,737.3	0.57	0.48	
7,053.0	90.80	266.30	5,479.8	48.8	-1,802.4	1,801.2	0.84	0.31	
7,116.0	90.70	265.40	5,479.0	44.2	-1,865.2	1,864.1	1.44	-0.16	
7,180.0	90.40	264.60	5,478.3	38.6	-1,928.9	1,928.0	1.33	-0.47	
7,243.0	90.70	265.60	5,477.7	33.3	-1,991.7	1,990.8	1.66	0.48	
7,307.0	90.70	264.60	5,477.0	27.8	-2,055.5	2,054.7	1.56	0.00	
7,370.0	91.50	265.50	5,475.7	22.4	-2,118.2	2,117.5	1.91	1.27	
7,434.0	91.90	265.60	5,473.9	17.4	-2,182.0	2,181.4	0.64	0.63	
7,496.0	90.80	265.50	5,472.4	12.6	-2,243.8	2,243.2	1.78	-1.77	
7,560.0	90.00	264.00	5,471.9	6.7	-2,307.5	2,307.1	2.66	-1.25	
7,623.0	91.50	265.70	5,471.1	1.1	-2,370.3	2,369.9	3.60	2.38	
7,686.0	90.70	266.60	5,469.9	-3.2	-2,433.1	2,432.8	1.91	-1.27	
7,749.0	90.20	266.50	5,469.4	-6.9	-2,496.0	2,495.7	0.81	-0.79	
7,813.0	91.20	268.60	5,468.6	-9.7	-2,559.9	2,559.7	3.63	1.56	
7,876.0	91.00	267.40	5,467.4	-11.9	-2,622.9	2,622.7	1.93	-0.32	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
7,940.0	90.40	267.80	5,466.6	-14.6	-2,686.8	2,686.6	1.13	-0.94	
8,003.0	89.90	269.60	5,466.5	-16.0	-2,749.8	2,749.6	2.97	-0.79	
8,067.0	91.50	270.60	5,465.7	-15.9	-2,813.8	2,813.6	2.95	2.50	
8,130.0	89.70	270.00	5,465.0	-15.5	-2,876.8	2,876.6	3.01	-2.86	
8,194.0	89.80	270.10	5,465.3	-15.5	-2,940.8	2,940.6	0.22	0.16	
8,257.0	90.40	270.10	5,465.2	-15.4	-3,003.8	3,003.6	0.95	0.95	
8,321.0	91.10	270.40	5,464.4	-15.1	-3,067.8	3,067.6	1.19	1.09	
8,384.0	91.50	270.10	5,462.9	-14.8	-3,130.7	3,130.5	0.79	0.63	
8,448.0	90.60	268.70	5,461.8	-15.5	-3,194.7	3,194.5	2.60	-1.41	
8,511.0	89.80	267.10	5,461.5	-17.8	-3,257.7	3,257.5	2.84	-1.27	
8,575.0	90.60	267.50	5,461.3	-20.8	-3,321.6	3,321.5	1.40	1.25	
8,639.0	91.00	267.70	5,460.4	-23.5	-3,385.5	3,385.4	0.70	0.63	
8,703.0	90.00	266.00	5,459.9	-27.0	-3,449.4	3,449.4	3.08	-1.56	
8,766.0	89.90	268.00	5,459.9	-30.3	-3,512.4	3,512.3	3.18	-0.16	
8,828.0	90.80	268.00	5,459.5	-32.5	-3,574.3	3,574.3	1.45	1.45	
8,891.0	91.00	267.60	5,458.6	-34.9	-3,637.3	3,637.3	0.71	0.32	
8,955.0	91.90	268.20	5,456.9	-37.2	-3,701.2	3,701.3	1.69	1.41	
9,019.0	91.00	269.60	5,455.3	-38.5	-3,765.2	3,765.3	2.60	-1.41	
9,083.0	90.50	270.00	5,454.5	-38.7	-3,829.2	3,829.2	1.00	-0.78	
9,146.0	91.10	271.00	5,453.6	-38.1	-3,892.1	3,892.2	1.85	0.95	
9,209.0	90.80	269.80	5,452.6	-37.7	-3,955.1	3,955.2	1.96	-0.48	
9,273.0	91.20	269.00	5,451.4	-38.4	-4,019.1	4,019.2	1.40	0.62	
9,336.0	89.20	268.80	5,451.2	-39.6	-4,082.1	4,082.2	3.19	-3.17	
9,400.0	90.20	268.90	5,451.6	-40.9	-4,146.1	4,146.2	1.57	1.56	
9,463.0	91.20	269.70	5,450.8	-41.6	-4,209.1	4,209.2	2.03	1.59	
9,526.0	90.30	269.40	5,450.0	-42.1	-4,272.1	4,272.2	1.51	-1.43	
9,590.0	90.20	268.90	5,449.7	-43.1	-4,336.1	4,336.2	0.80	-0.16	
9,653.0	90.50	268.20	5,449.3	-44.7	-4,399.1	4,399.2	1.21	0.48	
9,716.0	90.40	266.90	5,448.8	-47.4	-4,462.0	4,462.1	2.07	-0.16	
9,780.0	90.10	265.20	5,448.5	-51.8	-4,525.8	4,526.1	2.70	-0.47	
9,843.0	89.90	263.80	5,448.5	-57.8	-4,588.5	4,588.9	2.24	-0.32	
9,907.0	91.00	263.70	5,448.0	-64.8	-4,652.2	4,652.6	1.73	1.72	
9,972.0	91.40	263.20	5,446.7	-72.2	-4,716.7	4,717.3	0.98	0.62	Last Cathedral Survey @ 9,972' MD
10,020.0	91.40	263.20	5,445.5	-77.9	-4,764.4	4,765.0	0.00	0.00	Projection to Bit @ 10,020' MD - Escrito I24-2409

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito I24-2409 01H
Project:	San Juan Co, NM	TVD Reference:	13' KB @ 6893.0usft
Site:	S24-T24N-R9W (Escrito I24)	MD Reference:	13' KB @ 6893.0usft
Well:	Escrito I24-2409 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	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Escrito I24-2409 01H 20	0.00	0.00	-5,467.5	0.0	0.0	1,927,743.45	2,752,780.76	36° 17' 52.37 N	107° 43' 57.29 W
- actual wellpath misses target center by 5467.5usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1			-5,467.5	500.0	205.0	1,928,243.66	2,752,985.24		
Point 2			-5,467.5	-500.0	205.0	1,927,243.67	2,752,986.28		
Escrito I24-2409 01H B1	0.00	0.00	5,465.5	-83.7	-4,797.3	1,927,654.72	2,747,983.59	36° 17' 51.54 N	107° 44' 55.90 W
- actual wellpath misses target center by 38.9usft at 10020.0usft MD (5445.5 TVD, -77.9 N, -4764.4 E)									
- Polygon									
Point 1			5,465.5	500.0	-330.0	1,928,154.38	2,747,653.07		
Point 2			5,465.5	-500.0	-330.0	1,927,154.38	2,747,654.11		

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
4,871.7	4,871.3	-36.8	-22.8	Last Gyro Survey @ 4871' MD
9,972.0	5,446.7	-72.2	-4,716.7	Last Cathedral Survey @ 9,972' MD
10,020.0	5,445.5	-77.9	-4,764.4	Projection to Bit @ 10,020' MD

Checked By: _____ Approved By: _____ Date: _____