

CONFIDENTIAL

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

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT
☒ AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35493		² Pool Code 98102	³ Pool Name Piñon Unit HZ (OIL)
⁴ Property Code 313588	⁵ Property Name PIÑON UNIT D14-2410		⁶ Well Number 01H
⁷ OGRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.		⁹ Elevation 6876'

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
D	14	24N	10W		1321'	NORTH	449'	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
B	16	24N	10W		928'	NORTH	1576'	EAST	SAN JUAN

¹² Dedicated Acres - 640 ACRES 7845.44 ACRES W/2 OF SEC. 4, SEC. 5-10, 15-18, 21, N/2 OF SEC. 22, & N/2 OF SEC. 28 - UNDIVIDED UNIT, PENETRATED SPACING UNITS: N/2 SEC. 15, E/2 SEC. 16	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R - 13857
--	-------------------------------	----------------------------------	--------------------------------------

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

OIL CONS. DIV DIST. 3

MAR 24 2015

BASIS OF BEARINGS

ASB - BHL
LAT. 36.318225° N (NAD83)
LONG. 107.897547° W (NAD83)
LAT. 36.318214° N (NAD27)
LONG. 107.896928° W (NAD27)

ASB - POE
LAT. 36.318824° N (NAD83)
LONG. 107.875754° W (NAD83)
LAT. 36.318813° N (NAD27)
LONG. 107.875136° W (NAD27)

17 OPERATOR CERTIFICATION

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

Katie Wegner 3/17/15
Signature Date

Katie Wegner
Printed Name

Katie.Wegner@encana.com
E-mail Address

SURVEYOR CERTIFICATION

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

AS-BUILT SURVEY JANUARY 20, 2015
Date of Survey JUNE 18, 2013

Signature and Seal of Professional Surveyor:

David Russell
DAVID RUSSELL
Certificate Number 10201

DISTRICT I

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

DISTRICT II

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

DISTRICT III

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

DISTRICT IV

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

State of New Mexico
Energy, Minerals & Natural Resources Department

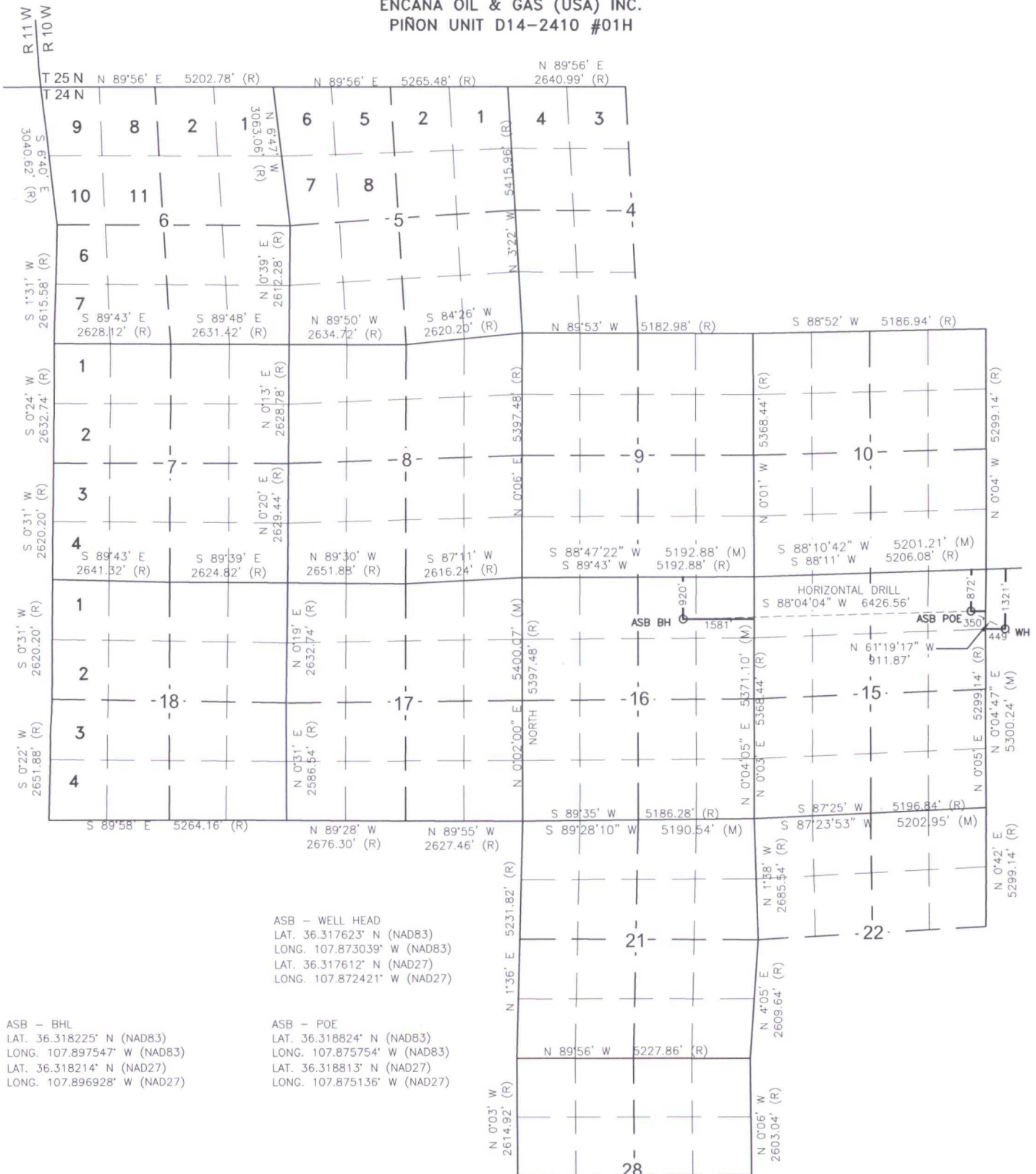
Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

☒ AS-DRILLED

ENCANA OIL & GAS (USA) INC.
PIÑON UNIT D14-2410 #01H



CONFIDENTIAL

DEVIATION SURVEYS
Pinion Unit D14-2410 01H
30-045-35493

MD (Feet)	Inclination (Degree)
767	0.40
1068	0.50
1372	0.40
1676	0.30
1987	0.60
2303	0.90
2619	1.30
2935 2935'	0.90
3251	1.60
3566	0.90
3885	0.20
4043	8.10

OIL CONS. DIV DIST. 3

MAR 24 2015

OPERATOR CERTIFICATION

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

Cristi Bauer

Cristi Bauer, Operations Technician

3/19/15

Date

ACKNOWLEDGMENT

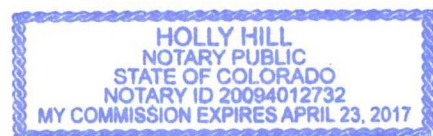
State of Colorado
City and County of Denver

This instrument was acknowledged before me on this 19th day of March, 2015 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.

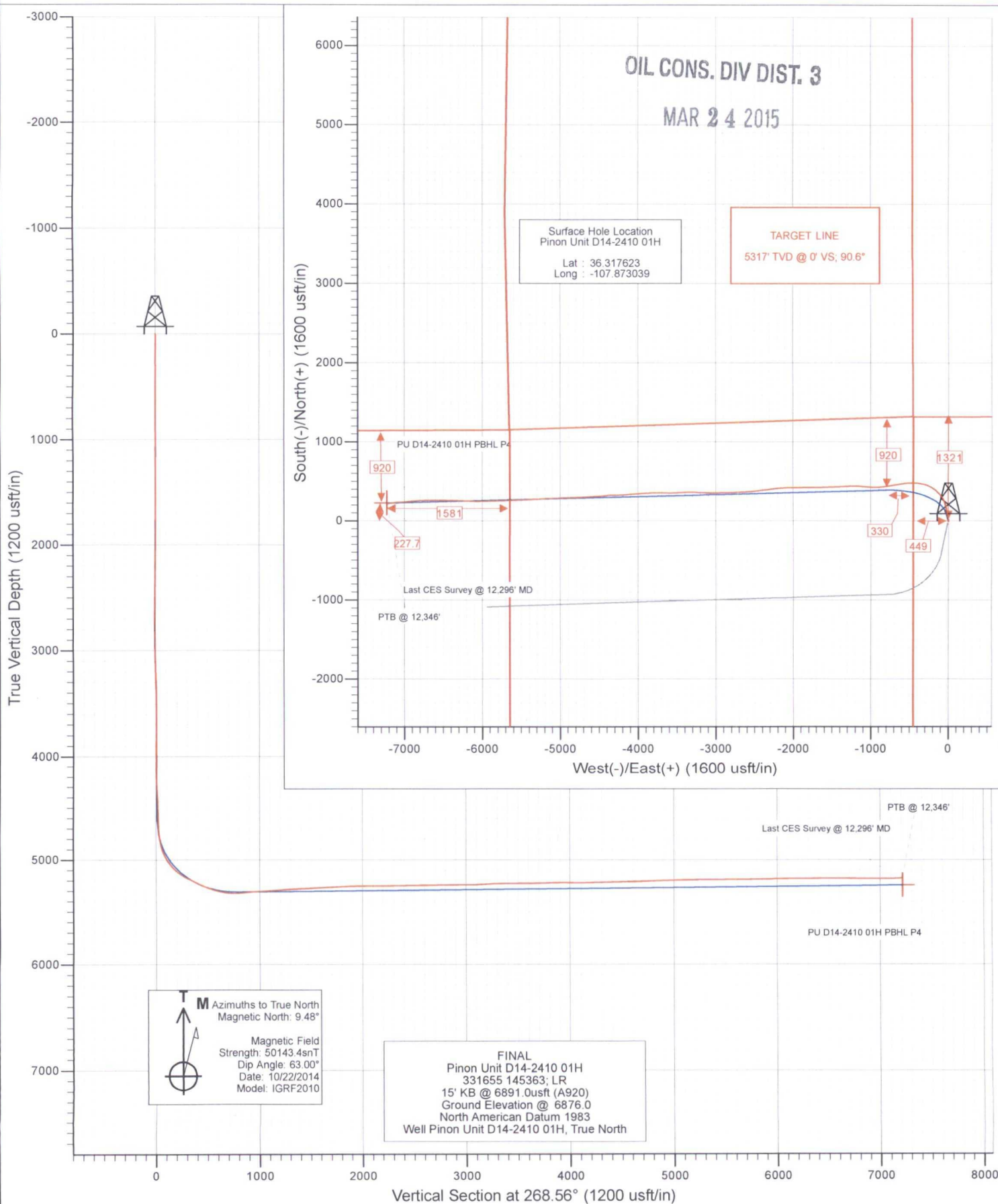
Notary Public: Holly Hill

My Commission Expires: April 23, 2017





Project: San Juan County, NM
Site: S14-T24N-R10W
Well: Pinon Unit D14-2410 01H
Wellbore: Hz
Design: FINAL



Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Pinon Unit D14-2410 01H
Project:	San Juan County, NM	TVD Reference:	15' KB @ 6891.0usft (A920)
Site:	S14-T24N-R10W	MD Reference:	15' KB @ 6891.0usft (A920)
Well:	Pinon Unit D14-2410 01H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

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

Site	S14-T24N-R10W				
Site Position:		Northing:	1,934,890.44 usft	Latitude:	36.317549
From:	Lat/Long	Easting:	2,711,381.53 usft	Longitude:	-107.873083
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-0.02 °

Well	Pinon Unit D14-2410 01H					
Well Position	+N/-S	0.0 usft	Northing:	1,934,917.37 usft	Latitude:	36.317623
	+E/-W	0.0 usft	Easting:	2,711,394.51 usft	Longitude:	-107.873039
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,876.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/22/2014	9.48	63.00	50,143

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	3,819.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	268.56	

Survey Program	Date	11/3/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
584.0	3,819.0	Survey #1 (Pilot Hole)	Geolink MWD	Geolink MWD	
3,885.0	12,346.0	Survey #1 (Hz)	Geolink 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	
584.0	0.60	319.60	584.0	2.3	-2.0	1.9	0.10	0.10	
645.0	0.50	330.90	645.0	2.8	-2.3	2.2	0.24	-0.16	
706.0	0.40	346.60	706.0	3.2	-2.5	2.4	0.26	-0.16	
767.0	0.40	3.00	767.0	3.7	-2.5	2.4	0.19	0.00	
827.0	0.40	99.90	827.0	3.8	-2.3	2.2	1.00	0.00	
887.0	0.60	60.00	887.0	4.0	-1.8	1.7	0.65	0.33	
948.0	0.70	33.00	948.0	4.4	-1.4	1.2	0.52	0.16	
1,008.0	0.60	11.10	1,008.0	5.0	-1.1	1.0	0.44	-0.17	
1,068.0	0.50	1.50	1,068.0	5.6	-1.0	0.9	0.23	-0.17	
1,129.0	0.70	17.00	1,129.0	6.2	-0.9	0.8	0.42	0.33	
1,190.0	0.50	7.20	1,190.0	6.9	-0.8	0.6	0.37	-0.33	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S14-T24N-R10W
Well: Pinon Unit D14-2410 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Pinon Unit D14-2410 01H
TVD Reference: 15' KB @ 6891.0usft (A920)
MD Reference: 15' KB @ 6891.0usft (A920)
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
1,250.0	0.60	15.00	1,250.0	7.4	-0.7	0.5	0.21	0.17	
1,311.0	0.70	41.40	1,311.0	8.0	-0.3	0.1	0.51	0.16	
1,372.0	0.40	15.30	1,372.0	8.5	0.0	-0.2	0.63	-0.49	
1,432.0	0.40	191.20	1,432.0	8.5	0.0	-0.2	1.33	0.00	
1,493.0	0.80	169.40	1,492.9	7.9	0.0	-0.2	0.74	0.66	
1,554.0	0.50	168.70	1,553.9	7.2	0.2	-0.3	0.49	-0.49	
1,615.0	0.30	189.80	1,614.9	6.8	0.2	-0.3	0.40	-0.33	
1,676.0	0.30	194.50	1,675.9	6.5	0.1	-0.3	0.04	0.00	
1,737.0	0.20	136.40	1,736.9	6.2	0.1	-0.3	0.42	-0.16	
1,798.0	0.20	152.10	1,797.9	6.1	0.3	-0.4	0.09	0.00	
1,861.0	0.20	129.90	1,860.9	5.9	0.4	-0.6	0.12	0.00	
1,924.0	0.40	122.90	1,923.9	5.7	0.7	-0.8	0.32	0.32	
1,987.0	0.60	126.90	1,986.9	5.4	1.1	-1.3	0.32	0.32	
2,050.0	0.80	100.40	2,049.9	5.1	1.8	-1.9	0.60	0.32	
2,113.0	0.60	128.20	2,112.9	4.8	2.5	-2.6	0.62	-0.32	
2,176.0	0.70	111.30	2,175.9	4.5	3.1	-3.2	0.34	0.16	
2,240.0	0.70	124.60	2,239.9	4.1	3.8	-3.9	0.25	0.00	
2,303.0	0.90	132.80	2,302.9	3.6	4.5	-4.6	0.37	0.32	
2,366.0	0.80	124.40	2,365.9	3.0	5.2	-5.3	0.25	-0.16	
2,429.0	0.80	129.00	2,428.9	2.4	5.9	-6.0	0.10	0.00	
2,492.0	0.80	122.90	2,491.9	1.9	6.6	-6.7	0.14	0.00	
2,556.0	0.80	105.50	2,555.9	1.6	7.4	-7.5	0.38	0.00	
2,619.0	1.30	112.90	2,618.9	1.2	8.5	-8.5	0.82	0.79	
2,682.0	0.70	126.70	2,681.9	0.7	9.5	-9.5	1.02	-0.95	
2,745.0	0.60	262.30	2,744.9	0.4	9.5	-9.5	1.91	-0.16	
2,808.0	0.60	258.70	2,807.9	0.3	8.8	-8.8	0.06	0.00	
2,872.0	0.70	266.40	2,871.9	0.2	8.1	-8.1	0.21	0.16	
2,935.0	0.90	221.90	2,934.9	-0.2	7.4	-7.4	1.01	0.32	
2,998.0	0.80	240.50	2,997.8	-0.8	6.7	-6.7	0.46	-0.16	
3,061.0	1.10	227.50	3,060.8	-1.4	5.8	-5.8	0.58	0.48	
3,124.0	1.10	228.90	3,123.8	-2.2	4.9	-4.9	0.04	0.00	
3,187.0	1.10	226.00	3,186.8	-3.0	4.1	-4.0	0.09	0.00	
3,251.0	1.60	221.20	3,250.8	-4.1	3.0	-2.9	0.80	0.78	
3,314.0	1.40	226.60	3,313.8	-5.3	1.9	-1.7	0.39	-0.32	
3,377.0	1.10	200.50	3,376.8	-6.4	1.1	-1.0	1.01	-0.48	
3,440.0	0.70	279.40	3,439.8	-6.9	0.5	-0.3	1.88	-0.63	
3,503.0	1.00	216.30	3,502.7	-7.3	-0.2	0.4	1.47	0.48	
3,566.0	0.90	194.10	3,565.7	-8.2	-0.6	0.8	0.60	-0.16	
3,629.0	0.40	52.10	3,628.7	-8.6	-0.6	0.8	1.97	-0.79	
3,692.0	0.40	37.70	3,691.7	-8.3	-0.3	0.5	0.16	0.00	
3,756.0	0.20	48.50	3,755.7	-8.0	0.0	0.2	0.32	-0.31	
3,819.0	0.10	99.50	3,818.7	-8.0	0.1	0.1	0.25	-0.16	
3,885.0	0.20	120.70	3,884.7	-8.0	0.2	0.0	0.17	0.15	
3,916.0	0.20	151.70	3,915.7	-8.1	0.3	-0.1	0.34	0.00	
3,948.0	1.20	346.30	3,947.7	-7.8	0.3	-0.1	4.36	3.13	
3,980.0	4.30	355.60	3,979.7	-6.3	0.1	0.1	9.76	9.69	
4,011.0	6.60	356.90	4,010.5	-3.4	-0.1	0.2	7.43	7.42	
4,043.0	8.10	357.40	4,042.3	0.7	-0.3	0.3	4.69	4.69	
4,074.0	9.30	358.20	4,072.9	5.4	-0.5	0.3	3.89	3.87	
4,106.0	9.50	358.00	4,104.5	10.6	-0.6	0.4	0.63	0.63	
4,138.0	9.70	358.90	4,136.0	16.0	-0.8	0.4	0.78	0.63	
4,201.0	8.20	347.00	4,198.3	25.7	-1.9	1.3	3.77	-2.38	
4,264.0	8.00	338.70	4,260.7	34.1	-4.5	3.6	1.88	-0.32	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S14-T24N-R10W
Well: Pinon Unit D14-2410 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Pinon Unit D14-2410 01H
TVD Reference: 15' KB @ 6891.0usft (A920)
MD Reference: 15' KB @ 6891.0usft (A920)
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 (°/100usft)	Build Rate (°/100u)	Formations / Comments
4,325.0	7.40	338.70	4,321.1	41.7	-7.5	6.4	0.98	-0.98	
4,355.0	7.30	338.50	4,350.9	45.3	-8.9	7.7	0.34	-0.33	
4,385.0	8.40	340.40	4,380.6	49.1	-10.3	9.1	3.77	3.67	
4,416.0	10.20	347.20	4,411.2	54.0	-11.7	10.3	6.79	5.81	
4,446.0	11.50	348.10	4,440.6	59.5	-12.9	11.4	4.37	4.33	
4,476.0	13.10	348.60	4,469.9	65.7	-14.2	12.5	5.35	5.33	
4,506.0	14.50	348.60	4,499.1	72.7	-15.6	13.8	4.67	4.67	
4,537.0	15.50	347.80	4,529.0	80.6	-17.2	15.2	3.29	3.23	
4,567.0	17.40	350.70	4,557.8	88.9	-18.8	16.6	6.90	6.33	
4,598.0	19.50	352.80	4,587.2	98.7	-20.2	17.7	7.10	6.77	
4,628.0	21.80	354.80	4,615.3	109.2	-21.3	18.6	8.02	7.67	
4,659.0	24.30	355.90	4,643.8	121.3	-22.3	19.3	8.18	8.06	
4,689.0	25.80	356.60	4,671.0	133.9	-23.1	19.8	5.10	5.00	
4,720.0	27.20	353.70	4,698.7	147.7	-24.3	20.6	6.15	4.52	
4,750.0	29.20	350.90	4,725.1	161.8	-26.2	22.2	7.99	6.67	
4,781.0	31.30	346.50	4,751.9	177.1	-29.3	24.8	9.85	6.77	
4,811.0	32.30	344.30	4,777.4	192.4	-33.3	28.4	5.10	3.33	
4,842.0	33.10	343.60	4,803.5	208.5	-37.9	32.7	2.85	2.58	
4,872.0	33.80	340.80	4,828.5	224.2	-43.0	37.3	5.65	2.33	
4,902.0	35.00	336.30	4,853.3	240.0	-49.2	43.1	9.37	4.00	
4,933.0	36.30	335.50	4,878.5	256.4	-56.6	50.1	4.46	4.19	
4,963.0	37.00	333.00	4,902.6	272.6	-64.3	57.5	5.49	2.33	
4,993.0	38.20	329.20	4,926.3	288.6	-73.2	65.9	8.70	4.00	
5,023.0	39.60	324.80	4,949.7	304.4	-83.5	75.8	10.32	4.67	
5,054.0	41.40	321.40	4,973.3	320.5	-95.5	87.5	9.19	5.81	
5,084.0	43.00	317.80	4,995.5	335.8	-108.6	100.1	9.66	5.33	
5,114.0	45.00	315.70	5,017.1	351.0	-122.9	114.0	8.25	6.67	
5,144.0	47.70	314.20	5,037.8	366.3	-138.3	129.0	9.70	9.00	
5,174.0	49.40	313.10	5,057.6	381.8	-154.5	144.9	6.30	5.67	
5,205.0	51.20	308.70	5,077.4	397.4	-172.6	162.5	12.37	5.81	
5,235.0	53.40	305.10	5,095.8	411.6	-191.5	181.1	12.00	7.33	
5,265.0	55.50	300.60	5,113.2	424.9	-212.0	201.3	14.07	7.00	
5,296.0	57.10	296.80	5,130.4	437.2	-234.7	223.6	11.43	5.16	
5,326.0	58.90	292.80	5,146.3	447.9	-257.7	246.4	12.80	6.00	
5,356.0	60.60	288.90	5,161.5	457.1	-282.0	270.4	12.58	5.67	
5,372.0	64.60	282.60	5,168.8	461.0	-295.6	283.9	42.96	25.00	
5,404.0	64.20	281.90	5,182.6	467.1	-323.8	312.0	2.34	-1.25	
5,436.0	63.90	281.20	5,196.7	472.8	-352.0	340.0	2.18	-0.94	
5,468.0	64.00	277.70	5,210.7	477.6	-380.4	368.2	9.83	0.31	
5,499.0	64.30	273.80	5,224.2	480.4	-408.1	395.9	11.36	0.97	
5,531.0	65.60	270.10	5,237.8	481.3	-437.1	424.9	11.23	4.06	
5,562.0	67.00	268.20	5,250.2	480.9	-465.5	453.2	7.20	4.52	
5,593.0	68.80	266.60	5,261.9	479.6	-494.2	481.9	7.52	5.81	
5,626.0	69.90	265.30	5,273.5	477.4	-525.0	512.8	4.97	3.33	
5,657.0	71.50	263.00	5,283.8	474.4	-554.1	542.0	8.70	5.16	
5,689.0	73.50	262.50	5,293.4	470.6	-584.3	572.3	6.43	6.25	
5,721.0	76.30	261.90	5,301.7	466.4	-614.9	603.0	8.94	8.75	
5,752.0	78.70	260.90	5,308.5	461.9	-644.9	633.0	8.36	7.74	
5,784.0	81.10	260.40	5,314.1	456.7	-675.9	664.3	7.66	7.50	
5,815.0	83.50	260.80	5,318.2	451.7	-706.2	694.7	7.85	7.74	
5,847.0	87.50	260.40	5,320.7	446.5	-737.7	726.3	12.56	12.50	
5,879.0	91.40	262.00	5,321.0	441.6	-769.3	758.0	13.17	12.19	
5,910.0	92.70	263.10	5,319.9	437.6	-800.0	788.8	5.49	4.19	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S14-T24N-R10W
Well: Pinon Unit D14-2410 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Pinon Unit D14-2410 01H
TVD Reference: 15' KB @ 6891.0usft (A920)
MD Reference: 15' KB @ 6891.0usft (A920)
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
5,942.0	94.00	263.80	5,318.1	434.0	-831.8	820.6	4.61	4.06	
5,973.0	95.40	264.90	5,315.5	430.9	-862.5	851.4	5.74	4.52	
6,005.0	96.30	267.40	5,312.3	428.8	-894.3	883.2	8.26	2.81	
6,068.0	95.90	272.70	5,305.6	428.8	-956.9	945.8	8.39	-0.63	
6,131.0	92.70	273.40	5,300.8	432.2	-1,019.6	1,008.4	5.20	-5.08	
6,195.0	93.10	273.50	5,297.6	436.0	-1,083.4	1,072.1	0.64	0.63	
6,258.0	94.10	273.00	5,293.6	439.6	-1,146.2	1,134.8	1.77	1.59	
6,321.0	95.10	268.90	5,288.6	440.6	-1,209.0	1,197.5	6.68	1.59	
6,385.0	92.10	268.70	5,284.6	439.3	-1,272.8	1,261.4	4.70	-4.69	
6,448.0	92.30	268.00	5,282.2	437.5	-1,335.8	1,324.3	1.15	0.32	
6,511.0	93.20	267.30	5,279.1	434.9	-1,398.6	1,387.3	1.81	1.43	
6,574.0	93.50	266.40	5,275.4	431.5	-1,461.4	1,450.1	1.50	0.48	
6,638.0	92.90	268.30	5,271.9	428.5	-1,525.3	1,514.0	3.11	-0.94	
6,701.0	93.80	267.70	5,268.2	426.3	-1,588.1	1,576.9	1.72	1.43	
6,764.0	93.20	270.00	5,264.3	425.0	-1,651.0	1,639.8	3.77	-0.95	
6,827.0	92.40	271.40	5,261.3	425.8	-1,713.9	1,702.7	2.56	-1.27	
6,891.0	91.90	270.20	5,258.9	426.7	-1,777.8	1,766.6	2.03	-0.78	
6,954.0	92.30	269.40	5,256.6	426.5	-1,840.8	1,829.5	1.42	0.63	
7,017.0	92.10	268.50	5,254.1	425.3	-1,903.7	1,892.4	1.46	-0.32	
7,080.0	91.50	269.00	5,252.2	424.0	-1,966.7	1,955.4	1.24	-0.95	
7,144.0	91.90	268.90	5,250.3	422.8	-2,030.7	2,019.4	0.64	0.63	
7,207.0	89.70	266.60	5,249.4	420.3	-2,093.6	2,082.4	5.05	-3.49	
7,270.0	89.70	266.60	5,249.7	416.6	-2,156.5	2,145.3	0.00	0.00	
7,333.0	89.80	264.20	5,250.0	411.5	-2,219.3	2,208.2	3.81	0.16	
7,397.0	91.60	263.00	5,249.2	404.4	-2,282.9	2,272.0	3.38	2.81	
7,460.0	89.70	261.00	5,248.5	395.6	-2,345.2	2,334.6	4.38	-3.02	
7,523.0	91.90	262.60	5,247.6	386.6	-2,407.6	2,397.1	4.32	3.49	
7,586.0	90.40	262.70	5,246.3	378.6	-2,470.1	2,459.8	2.39	-2.38	
7,649.0	91.20	265.10	5,245.5	371.9	-2,532.7	2,522.5	4.02	1.27	
7,712.0	89.20	268.00	5,245.2	368.1	-2,595.6	2,585.5	5.59	-3.17	
7,776.0	89.40	267.60	5,246.0	365.6	-2,659.5	2,649.5	0.70	0.31	
7,839.0	92.30	268.30	5,245.1	363.4	-2,722.5	2,712.5	4.74	4.60	
7,902.0	92.60	268.10	5,242.4	361.4	-2,785.4	2,775.4	0.57	0.48	
7,965.0	91.60	268.60	5,240.1	359.6	-2,848.3	2,838.4	1.77	-1.59	
8,028.0	88.80	269.30	5,239.9	358.4	-2,911.3	2,901.3	4.58	-4.44	
8,092.0	90.50	269.90	5,240.3	358.0	-2,975.3	2,965.3	2.82	2.66	
8,155.0	91.60	269.60	5,239.1	357.7	-3,038.3	3,028.3	1.81	1.75	
8,216.0	90.30	270.50	5,238.1	357.8	-3,099.2	3,089.3	2.59	-2.13	
8,276.0	92.30	271.40	5,236.7	358.8	-3,159.2	3,149.2	3.66	3.33	
8,337.0	93.30	271.80	5,233.8	360.5	-3,220.1	3,210.0	1.77	1.64	
8,398.0	93.00	271.20	5,230.4	362.1	-3,281.0	3,270.9	1.10	-0.49	
8,458.0	91.50	269.50	5,228.1	362.4	-3,341.0	3,330.8	3.78	-2.50	
8,519.0	90.80	268.00	5,226.8	361.1	-3,401.9	3,391.8	2.71	-1.15	
8,580.0	89.60	268.60	5,226.6	359.3	-3,462.9	3,452.8	2.20	-1.97	
8,641.0	89.80	267.40	5,226.9	357.2	-3,523.9	3,513.8	1.99	0.33	
8,702.0	90.40	268.90	5,226.8	355.2	-3,584.8	3,574.8	2.65	0.98	
8,763.0	90.90	269.80	5,226.1	354.5	-3,645.8	3,635.8	1.69	0.82	
8,824.0	92.40	270.80	5,224.4	354.8	-3,706.8	3,696.7	2.95	2.46	
8,884.0	92.00	270.90	5,222.1	355.7	-3,766.7	3,756.6	0.69	-0.67	
8,945.0	91.50	267.20	5,220.2	354.7	-3,827.7	3,817.6	6.12	-0.82	
9,005.0	89.80	266.70	5,219.5	351.5	-3,887.6	3,877.5	2.95	-2.83	
9,065.0	89.50	266.10	5,219.9	347.7	-3,947.5	3,937.5	1.12	-0.50	
9,126.0	90.30	266.70	5,220.0	343.9	-4,008.4	3,998.4	1.64	1.31	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S14-T24N-R10W
Well: Pinon Unit D14-2410 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Pinon Unit D14-2410 01H
TVD Reference: 15' KB @ 6891.0usft (A920)
MD Reference: 15' KB @ 6891.0usft (A920)
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
9,187.0	89.70	265.00	5,220.0	339.5	-4,069.2	4,059.4	2.96	-0.98	
9,247.0	90.60	263.80	5,219.8	333.6	-4,128.9	4,119.2	2.50	1.50	
9,307.0	91.70	267.40	5,218.6	329.0	-4,188.7	4,179.1	6.27	1.83	
9,368.0	91.70	268.30	5,216.8	326.8	-4,249.7	4,240.1	1.47	0.00	
9,429.0	92.40	268.10	5,214.6	324.8	-4,310.6	4,301.1	1.19	1.15	
9,490.0	90.80	267.10	5,212.9	322.3	-4,371.5	4,362.0	3.09	-2.62	
9,550.0	90.10	265.40	5,212.5	318.4	-4,431.4	4,422.0	3.06	-1.17	
9,611.0	90.60	264.40	5,212.1	312.9	-4,492.1	4,482.8	1.83	0.82	
9,672.0	91.50	266.70	5,211.0	308.2	-4,552.9	4,543.7	4.05	1.48	
9,734.0	91.50	265.60	5,209.4	304.0	-4,614.8	4,605.7	1.77	0.00	
9,794.0	91.90	265.80	5,207.6	299.5	-4,674.6	4,665.6	0.75	0.67	
9,855.0	92.90	268.60	5,205.0	296.6	-4,735.4	4,726.5	4.87	1.64	
9,918.0	93.20	268.90	5,201.7	295.2	-4,798.3	4,789.4	0.67	0.48	
9,981.0	91.90	268.10	5,198.9	293.5	-4,861.2	4,852.3	2.42	-2.06	
10,044.0	91.30	268.40	5,197.1	291.6	-4,924.2	4,915.3	1.06	-0.95	
10,108.0	91.00	268.90	5,195.8	290.1	-4,988.2	4,979.3	0.91	-0.47	
10,171.0	91.40	268.40	5,194.5	288.6	-5,051.1	5,042.3	1.02	0.63	
10,234.0	91.30	266.60	5,193.0	285.9	-5,114.1	5,105.3	2.86	-0.16	
10,297.0	92.10	266.40	5,191.2	282.0	-5,176.9	5,168.2	1.31	1.27	
10,360.0	90.20	267.10	5,189.9	278.5	-5,239.8	5,231.1	3.21	-3.02	
10,424.0	89.90	265.90	5,189.8	274.6	-5,303.7	5,295.1	1.93	-0.47	
10,487.0	90.50	265.60	5,189.6	269.9	-5,366.5	5,358.0	1.06	0.95	
10,550.0	90.10	267.00	5,189.3	265.8	-5,429.4	5,421.0	2.31	-0.63	
10,613.0	90.20	266.90	5,189.1	262.5	-5,492.3	5,483.9	0.22	0.16	
10,676.0	90.40	268.90	5,188.8	260.2	-5,555.2	5,546.9	3.19	0.32	
10,740.0	90.30	269.10	5,188.4	259.1	-5,619.2	5,610.9	0.35	-0.16	
10,803.0	90.40	268.40	5,188.0	257.7	-5,682.2	5,673.9	1.12	0.16	
10,866.0	90.50	269.20	5,187.5	256.4	-5,745.2	5,736.9	1.28	0.16	
10,929.0	91.10	269.10	5,186.6	255.4	-5,808.2	5,799.9	0.97	0.95	
10,992.0	90.70	267.30	5,185.7	253.4	-5,871.1	5,862.9	2.93	-0.63	
11,055.0	91.90	268.00	5,184.2	250.9	-5,934.1	5,925.9	2.20	1.90	
11,119.0	93.10	268.90	5,181.4	249.1	-5,998.0	5,989.8	2.34	1.87	
11,181.0	91.90	270.60	5,178.7	248.9	-6,059.9	6,051.7	3.35	-1.94	
11,245.0	89.90	272.40	5,177.7	250.5	-6,123.8	6,115.6	4.21	-3.13	
11,308.0	89.20	272.40	5,178.2	253.2	-6,186.8	6,178.5	1.11	-1.11	
11,371.0	89.30	271.60	5,179.0	255.4	-6,249.7	6,241.4	1.28	0.16	
11,434.0	90.30	271.50	5,179.3	257.1	-6,312.7	6,304.3	1.60	1.59	
11,497.0	90.00	272.10	5,179.1	259.1	-6,375.7	6,367.2	1.06	-0.48	
11,560.0	91.00	271.40	5,178.5	261.0	-6,438.7	6,430.1	1.94	1.59	
11,623.0	90.60	270.10	5,177.7	261.8	-6,501.6	6,493.0	2.16	-0.63	
11,687.0	90.00	269.60	5,177.3	261.6	-6,565.6	6,557.0	1.22	-0.94	
11,750.0	90.40	268.90	5,177.1	260.8	-6,628.6	6,620.0	1.28	0.63	
11,813.0	89.60	269.40	5,177.1	259.9	-6,691.6	6,683.0	1.50	-1.27	
11,876.0	88.30	267.90	5,178.3	258.4	-6,754.6	6,746.0	3.15	-2.06	
11,939.0	88.70	267.10	5,179.9	255.7	-6,817.5	6,808.9	1.42	0.63	
12,003.0	90.30	265.90	5,180.5	251.7	-6,881.4	6,872.9	3.12	2.50	
12,066.0	91.10	264.80	5,179.7	246.6	-6,944.2	6,935.8	2.16	1.27	
12,129.0	89.80	265.20	5,179.2	241.1	-7,006.9	6,998.7	2.16	-2.06	
12,192.0	90.70	265.30	5,178.9	235.9	-7,069.7	7,061.6	1.44	1.43	
12,255.0	91.60	264.70	5,177.7	230.4	-7,132.5	7,124.4	1.72	1.43	
12,296.0	92.00	263.80	5,176.4	226.3	-7,173.3	7,165.3	2.40	0.98	Last CES Survey @ 12,296' MD
12,346.0	92.00	263.80	5,174.6	220.9	-7,222.9	7,215.1	0.00	0.00	PTB @ 12,346'

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S14-T24N-R10W
Well: Pinon Unit D14-2410 01H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Pinon Unit D14-2410 01H
TVD Reference: 15' KB @ 6891.0usft (A920)
MD Reference: 15' KB @ 6891.0usft (A920)
North Reference: True
Survey Calculation Method: Minimum Curvature
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)		
PU D14-2410 01H PBHL	0.00	0.00	5,241.3	227.7	-7,224.6	1,935,148.04	2,704,169.97	36.318246	-107.897563
- actual wellpath misses target center by 67.0usft at 12344.6usft MD (5174.7 TVD, 221.1 N, -7221.6 E)									
- Point									
Good Times D14-2410 C	0.00	0.00	5,309.9	389.5	-777.7	1,935,307.21	2,710,616.94	36.318693	-107.875679
- actual wellpath misses target center by 51.6usft at 5894.5usft MD (5320.6 TVD, 439.5 N, -784.7 E)									
- Point									
PU D14-2410 01H POE	0.00	0.00	5,323.9	389.5	-777.7	1,935,307.21	2,710,616.94	36.318693	-107.875679
- actual wellpath misses target center by 50.6usft at 5894.0usft MD (5320.6 TVD, 439.6 N, -784.2 E)									
- Point									
PU D14-2410 01H PBHL	0.00	0.00	5,209.2	227.7	-7,224.6	1,935,148.04	2,704,169.97	36.318246	-107.897563
- actual wellpath misses target center by 35.3usft at 12345.8usft MD (5174.6 TVD, 221.0 N, -7222.7 E)									
- Point									
Good Times D14-2410 C	0.00	0.00	5,262.5	244.4	-5,314.8	1,935,163.95	2,706,079.83	36.318293	-107.891080
- actual wellpath misses target center by 78.3usft at 10437.1usft MD (5189.8 TVD, 273.6 N, -5316.7 E)									
- Point									
PU D14-2410 01H PBHL	0.00	0.00	5,256.4	227.7	-7,224.6	1,935,148.04	2,704,169.97	36.318246	-107.897563
- actual wellpath misses target center by 82.0usft at 12344.1usft MD (5174.7 TVD, 221.1 N, -7221.1 E)									
- Point									
PU D14-2410 01H POE	0.00	0.00	5,299.3	389.5	-777.7	1,935,307.21	2,710,616.94	36.318693	-107.875679
- actual wellpath misses target center by 54.8usft at 5894.8usft MD (5320.6 TVD, 439.5 N, -785.0 E)									
- Point									
PU D14-2410 01H POE	0.00	0.00	5,308.7	389.5	-777.7	1,935,307.21	2,710,616.94	36.318693	-107.875679
- actual wellpath misses target center by 51.9usft at 5894.5usft MD (5320.6 TVD, 439.5 N, -784.7 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,296.0	5,176.4	226.3	-7,173.3	Last CES Survey @ 12,296' MD
12,346.0	5,174.6	220.9	-7,222.9	PTB @ 12,346'

Checked By: _____ Approved By: _____ Date: _____