

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 19 2014

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM12374

6. If Indian, Allottee or Tribe Name
N/A

ROVD SEP 26 '14

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

7. If Unit of CA/Agreement, Name and/or No.

N/A

OIL CONS. DIV.

2. Name of Operator
Encana Oil & Gas (USA) Inc.

8. Well Name and No.
Escrito M27-2409 02H

3a. Address
370 17th Street, Suite 1700 Denver, CO 80202

3b. Phone No. (include area code)
720-876-5867

9. API Well No.
3004535479

DIST. 3

10. Field and Pool or Exploratory Area
Bisti Lower-Gallup/Basin Mancos Gas

4. Location of Well (Fontage, Sec., T., R., M., or Survey Description)
SHL: 1255' FSL and 371' FWL Section 27, T24N, R9W
BHL: 880' FSL and 330' FWL Section 28, T24N, R10W

11. County or Parish, State
San Juan County

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Correction to	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	previously submitted	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	Production Sundry	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Attached is a revised Production Sundry for the Escrito M27-2409 02H, correcting the MD and TVD from 10,282' MD/5307' TVD to 10,338' MD/5305' TVD.
A corrected Final Directional is also attached. ✓

ACCEPTED FOR RECORD

SEP 24 2014

FARMINGTON FIELD OFFICE

BY: William Tambekou

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
Cristi Bauer	Title Operations Technician
Signature <u>Cristi Bauer</u>	Date <u>9/18/14</u>

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCDF

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AMENDED

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RCVD SEP 26 '14

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Encana Oil & Gas (USA) Inc.

3a. Address
370 17th Street, Suite 1700 Denver, CO 80202

3b. Phone No. (include area code)
720-876-5867

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 125S' FSL and 371' FWL Section 27, T24N, R9W
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☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recombine	☒ Other Production
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Liner/Packers
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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Utilized high performance water based mud from intermediate casing point (5620'MD) to TD of lateral.

Kicked off lateral at 4894' on 8/01/14. Landed lateral at 5870' on 8/05/14. Length of lateral: 4412'. TD of 10,338'MD/5305'TVD reached 8/06/14. Set production liner 8/8/14.

Hole diameter: 6.125", production string diameter: 4.5", production string weight and grade: 11.6# SB80 LTC. Depth of 6.125" hole from 5709'-10,338'MD. Float shoe at 10,336'MD. Float collar at 10,293'MD. Production liner set from 5374'-10,338'MD.

Set 20 external swellable casing packers for isolation of production string at the following depths: (1) 10,113' (2) 9892' (3) 9627' (4) 9401' (5) 9180' (6) 8917' (7) 8695' (8) 8474' (9) 8205' (10) 7983' (11) 7761' (12) 7536' (13) 7273' (14) 7051' (15) 6787' (16) 6566' (17) 6303' (18) 6081' (19) 5859' (20) 5374'

Rig released 8/8/14

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
Cristi Bauer	Title Operations Technician
Signature <i>Cristi Bauer</i>	Date 9/18/14

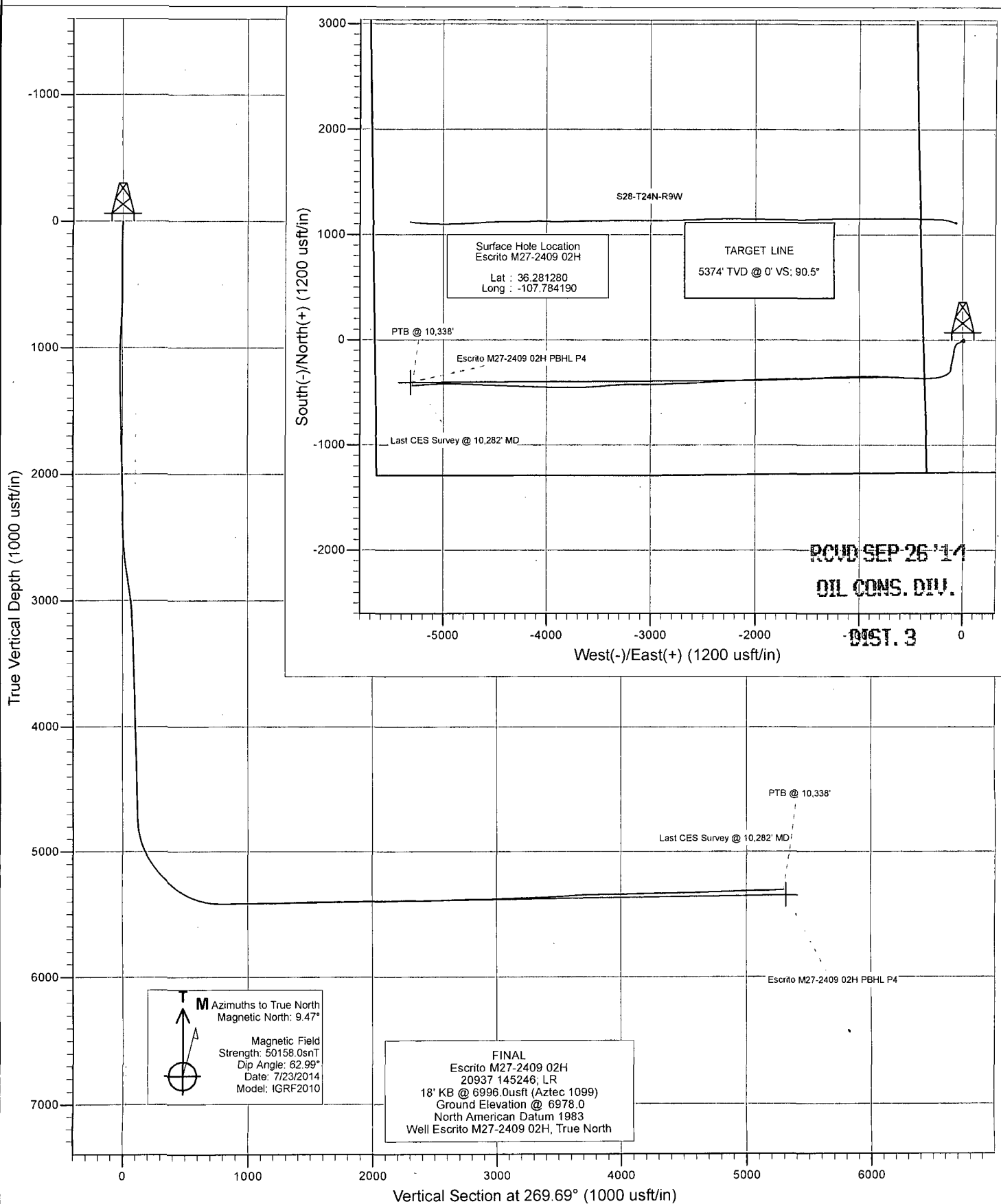
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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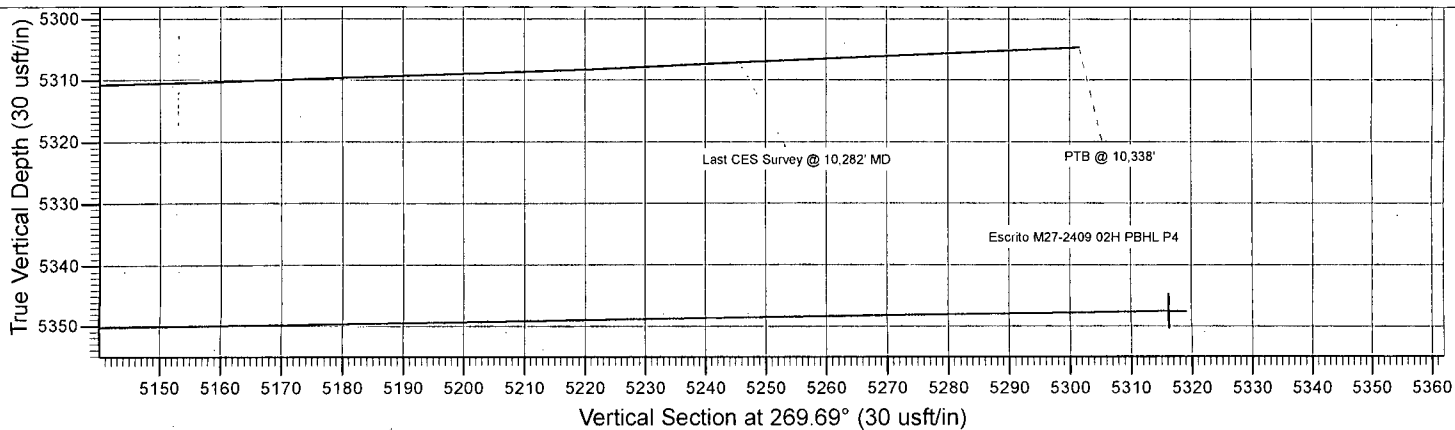
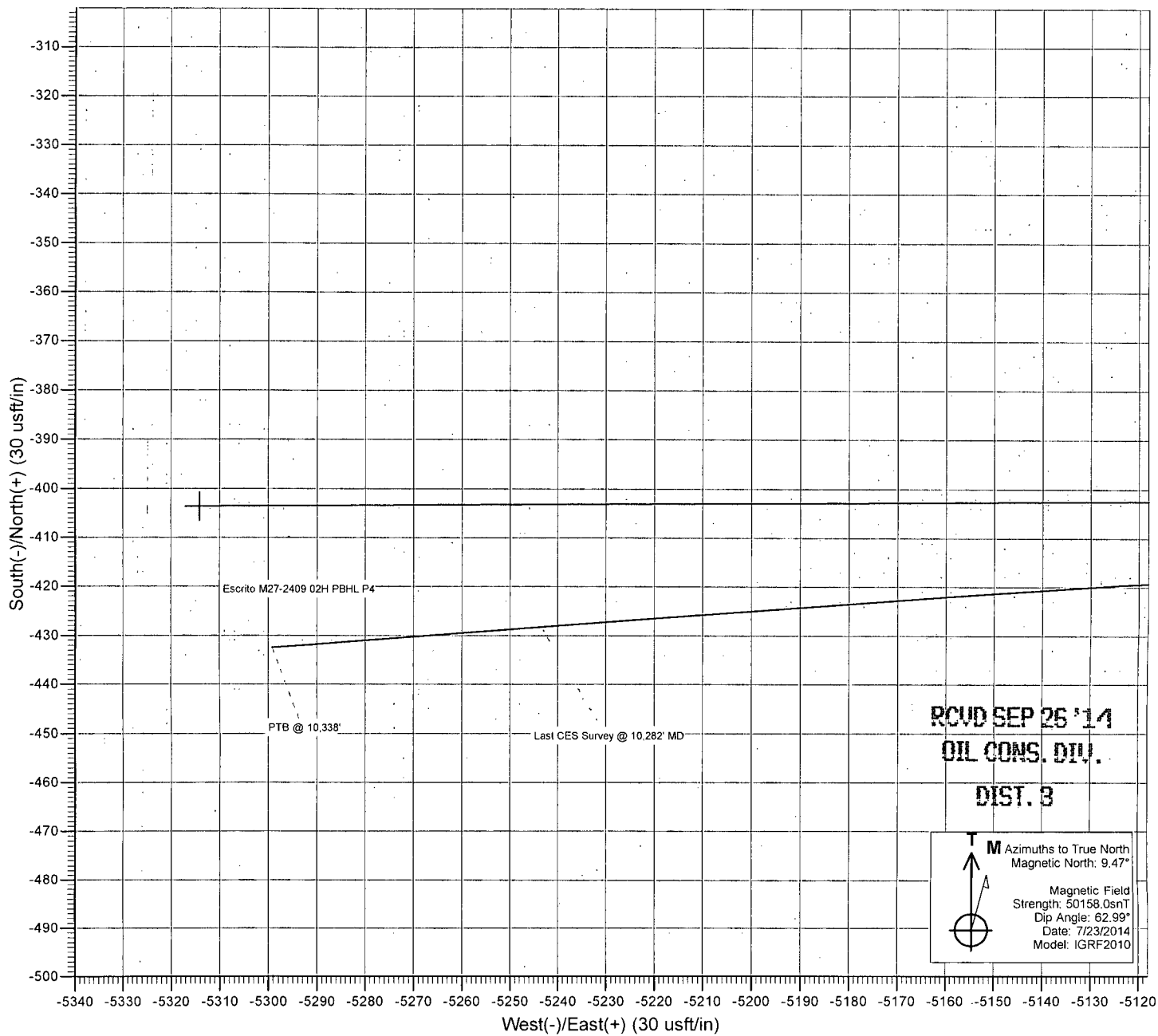


Project: San Juan County, NM
Site: S27-T24N-R9W
Well: Escrito M27-2409 02H
Wellbore: Hz
Design: FINAL





Project: San Juan County, NM
Site: S27-T24N-R9W
Well: Escrito M27-2409 02H
Wellbore: Hz
Design: FINAL



Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S27-T24N-R9W
Well: Escrito M27-2409 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito M27-2409 02H
TVD Reference: 18' KB @ 6996.0usft (Aztec 1099)
MD Reference: 18' KB @ 6996.0usft (Aztec 1099)
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	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	S27-T24N-R9W				
Site Position:		Northing:	1,922,835.50 usft	Latitude:	36.284430
From:	Lat/Long	Easting:	2,737,510.43 usft	Longitude:	-107.784410
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.03 °

Well	Escrito M27-2409 02H					
Well Position	+N/-S	0.0 usft	Northing:	1,921,688.85 usft	Latitude:	36.281280
	+E/-W	0.0 usft	Easting:	2,737,575.85 usft	Longitude:	-107.784190
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,978.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/23/2014	9.47	62.99	50,158

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	269.69

Survey Program		Date	9/18/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
563.0	10,338.0	Survey #1 (Hz)	Geolink MWD	Geolink MWD	

Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Formations /
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Comments
(usft)			(usft)			(usft)	(°/100usf	(°/100u	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
563.0	1.80	172.30	562.9	-8.8	1.2	-1.1	0.32	0.32	
627.0	2.00	161.40	626.9	-10.8	1.7	-1.6	0.64	0.31	
690.0	1.60	169.40	689.8	-12.7	2.2	-2.1	0.75	-0.63	
753.0	3.30	104.00	752.8	-14.0	4.1	-4.0	4.78	2.70	
816.0	4.20	106.10	815.7	-15.1	8.1	-8.0	1.44	1.43	
880.0	3.20	119.20	879.5	-16.6	11.9	-11.8	2.04	-1.56	
943.0	2.80	97.30	942.4	-17.7	15.0	-14.9	1.91	-0.63	
1,006.0	2.00	78.20	1,005.4	-17.7	17.6	-17.5	1.78	-1.27	
1,069.0	1.30	46.90	1,068.4	-16.9	19.2	-19.1	1.77	-1.11	
1,133.0	1.20	35.70	1,132.3	-15.9	20.1	-20.0	0.41	-0.16	
1,196.0	2.20	4.00	1,195.3	-14.2	20.5	-20.5	2.12	1.59	
1,259.0	2.60	6.90	1,258.3	-11.5	20.8	-20.7	0.66	0.63	

Survey Report

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North Reference: True
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 (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,322.0	4.10	344.90	1,321.2	-7.9	20.4	-20.3	3.09	2.38	
1,385.0	5.20	345.30	1,383.9	-3.0	19.1	-19.1	1.75	1.75	
1,449.0	4.30	336.70	1,447.7	2.0	17.4	-17.4	1.79	-1.41	
1,512.0	4.00	336.70	1,510.6	6.2	15.6	-15.6	0.48	-0.48	
1,575.0	3.30	326.80	1,573.4	9.7	13.7	-13.8	1.49	-1.11	
1,639.0	2.20	289.10	1,637.4	11.7	11.6	-11.6	3.22	-1.72	
1,702.0	1.90	259.80	1,700.3	11.9	9.4	-9.5	1.71	-0.48	
1,765.0	1.90	270.90	1,763.3	11.7	7.3	-7.4	0.58	0.00	
1,828.0	1.40	247.60	1,826.3	11.4	5.6	-5.6	1.31	-0.79	
1,891.0	1.50	222.00	1,889.2	10.5	4.3	-4.4	1.03	0.16	
1,955.0	1.30	213.00	1,953.2	9.3	3.3	-3.4	0.46	-0.31	
2,018.0	1.60	210.00	2,016.2	7.9	2.5	-2.6	0.49	0.48	
2,081.0	1.50	212.20	2,079.2	6.5	1.6	-1.7	0.18	-0.16	
2,144.0	1.80	223.00	2,142.2	5.1	0.5	-0.5	0.68	0.48	
2,207.0	0.90	193.70	2,205.1	3.9	-0.3	0.3	1.76	-1.43	
2,271.0	0.80	164.40	2,269.1	2.9	-0.3	0.3	0.69	-0.16	
2,334.0	1.10	158.50	2,332.1	2.0	0.1	-0.1	0.50	0.48	
2,397.0	1.40	188.70	2,395.1	0.6	0.2	-0.2	1.13	0.48	
2,461.0	2.50	217.30	2,459.1	-1.3	-0.8	0.8	2.24	1.72	
2,524.0	4.40	224.80	2,522.0	-4.1	-3.3	3.3	3.09	3.02	
2,587.0	6.10	228.90	2,584.7	-8.0	-7.6	7.6	2.76	2.70	
2,650.0	7.40	234.60	2,647.3	-12.5	-13.4	13.4	2.32	2.06	
2,714.0	9.20	242.80	2,710.6	-17.3	-21.3	21.4	3.36	2.81	
2,777.0	9.40	245.90	2,772.8	-21.7	-30.5	30.6	0.86	0.32	
2,840.0	9.50	245.10	2,834.9	-26.0	-39.9	40.0	0.26	0.16	
2,904.0	11.00	236.80	2,897.9	-31.5	-49.8	50.0	3.28	2.34	
2,967.0	11.30	230.00	2,959.7	-38.8	-59.5	59.7	2.14	0.48	
3,030.0	9.50	211.50	3,021.7	-47.2	-67.0	67.2	5.99	-2.86	
3,093.0	9.30	203.30	3,083.8	-56.3	-71.7	72.0	2.15	-0.32	
3,156.0	9.50	195.20	3,146.0	-66.0	-75.1	75.5	2.12	0.32	
3,220.0	9.20	194.00	3,209.1	-76.0	-77.7	78.1	0.56	-0.47	
3,283.0	9.10	194.70	3,271.3	-85.7	-80.2	80.7	0.24	-0.16	
3,346.0	8.90	188.20	3,333.6	-95.4	-82.2	82.7	1.64	-0.32	
3,409.0	9.20	187.00	3,395.8	-105.2	-83.5	84.0	0.56	0.48	
3,472.0	9.20	184.40	3,458.0	-115.2	-84.5	85.1	0.66	0.00	
3,536.0	8.30	192.10	3,521.2	-124.9	-85.8	86.5	2.31	-1.41	
3,599.0	8.80	190.70	3,583.5	-134.0	-87.7	88.4	0.86	0.79	
3,662.0	8.70	193.80	3,645.8	-143.4	-89.7	90.5	0.77	-0.16	
3,725.0	8.20	191.90	3,708.1	-152.4	-91.8	92.6	0.91	-0.79	
3,789.0	8.20	193.10	3,771.5	-161.3	-93.7	94.6	0.27	0.00	
3,852.0	8.00	194.20	3,833.8	-170.0	-95.8	96.8	0.40	-0.32	
3,915.0	7.60	195.10	3,896.2	-178.2	-98.0	99.0	0.66	-0.63	
3,978.0	8.20	193.00	3,958.6	-186.6	-100.1	101.1	1.06	0.95	
4,041.0	8.50	188.40	4,021.0	-195.6	-101.8	102.8	1.16	0.48	
4,072.0	7.90	187.90	4,051.7	-200.0	-102.4	103.5	1.95	-1.94	
4,135.0	7.90	193.80	4,114.1	-208.5	-104.0	105.2	1.29	0.00	
4,199.0	8.30	194.70	4,177.4	-217.2	-106.3	107.4	0.66	0.62	
4,262.0	8.00	196.30	4,239.8	-225.8	-108.6	109.9	0.60	-0.48	
4,325.0	8.10	191.50	4,302.2	-234.4	-110.8	112.0	1.08	0.16	
4,388.0	7.50	183.10	4,364.6	-242.8	-111.9	113.2	2.04	-0.95	
4,451.0	7.60	183.60	4,427.0	-251.1	-112.4	113.7	0.19	0.16	
4,515.0	7.40	180.20	4,490.5	-259.4	-112.6	114.0	0.76	-0.31	
4,578.0	6.70	181.50	4,553.0	-267.2	-112.7	114.2	1.14	-1.11	

Survey Report

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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
4,641.0	7.30	192.80	4,615.5	-274.8	-113.7	115.2	2.38	0.95	
4,705.0	7.40	198.50	4,679.0	-282.6	-115.9	117.5	1.15	0.16	
4,768.0	7.30	193.20	4,741.5	-290.4	-118.1	119.7	1.09	-0.16	
4,831.0	8.80	212.60	4,803.9	-298.3	-121.6	123.3	4.89	2.38	
4,894.0	15.20	232.00	4,865.5	-307.5	-130.8	132.4	11.87	10.16	
4,957.0	21.80	234.00	4,925.2	-319.5	-146.8	148.5	10.52	10.48	
5,021.0	26.50	243.40	4,983.6	-332.9	-169.2	171.0	9.47	7.34	
5,079.0	30.50	253.10	5,034.6	-342.9	-194.8	196.7	10.53	6.90	
5,142.0	34.00	259.20	5,087.9	-350.9	-227.5	229.4	7.58	5.56	
5,205.0	38.00	263.20	5,138.9	-356.5	-264.0	266.0	7.36	6.35	
5,268.0	42.60	266.50	5,186.9	-360.1	-304.6	306.5	8.05	7.30	
5,332.0	46.10	270.20	5,232.7	-361.3	-349.3	351.3	6.80	5.47	
5,395.0	50.40	270.50	5,274.6	-361.0	-396.3	398.2	6.83	6.83	
5,426.0	53.00	271.00	5,293.8	-360.7	-420.6	422.6	8.48	8.39	
5,458.0	55.80	270.80	5,312.4	-360.3	-446.6	448.6	8.76	8.75	
5,490.0	58.50	271.10	5,329.8	-359.9	-473.5	475.4	8.47	8.44	
5,521.0	61.60	271.70	5,345.3	-359.2	-500.4	502.3	10.14	10.00	
5,553.0	64.70	272.20	5,359.7	-358.2	-528.9	530.8	9.79	9.69	
5,584.0	67.50	273.10	5,372.3	-356.9	-557.2	559.1	9.41	9.03	
5,616.0	70.70	273.10	5,383.7	-355.3	-587.0	589.0	10.00	10.00	
5,648.0	73.40	273.50	5,393.6	-353.6	-617.4	619.3	8.52	8.44	
5,686.0	76.90	273.90	5,403.3	-351.2	-654.1	656.0	9.27	9.21	
5,717.0	80.90	272.80	5,409.3	-349.4	-684.4	686.3	13.36	12.90	
5,747.0	83.50	271.90	5,413.3	-348.2	-714.1	716.0	9.16	8.67	
5,778.0	85.60	269.70	5,416.3	-347.8	-745.0	746.9	9.79	6.77	
5,808.0	88.50	268.40	5,417.8	-348.3	-774.9	776.8	10.59	9.67	
5,870.0	91.30	268.20	5,417.9	-350.1	-836.9	838.8	4.53	4.52	
5,931.0	91.70	268.00	5,416.3	-352.1	-897.9	899.7	0.73	0.66	
5,992.0	91.00	268.30	5,414.9	-354.1	-958.8	960.7	1.25	-1.15	
6,053.0	91.60	268.90	5,413.5	-355.6	-1,019.8	1,021.7	1.39	0.98	
6,115.0	91.10	269.50	5,412.1	-356.4	-1,081.7	1,083.7	1.26	-0.81	
6,175.0	90.40	269.20	5,411.3	-357.1	-1,141.7	1,143.6	1.27	-1.17	
6,237.0	91.40	269.70	5,410.3	-357.7	-1,203.7	1,205.6	1.80	1.61	
6,298.0	90.50	269.60	5,409.3	-358.1	-1,264.7	1,266.6	1.48	-1.48	
6,360.0	90.50	268.50	5,408.7	-359.1	-1,326.7	1,328.6	1.77	0.00	
6,421.0	91.30	269.10	5,407.8	-360.4	-1,387.7	1,389.6	1.64	1.31	
6,483.0	91.80	268.60	5,406.1	-361.6	-1,449.6	1,451.6	1.14	0.81	
6,544.0	90.80	267.30	5,404.7	-363.8	-1,510.6	1,512.5	2.69	-1.64	
6,605.0	91.80	267.50	5,403.3	-366.6	-1,571.5	1,573.5	1.67	1.64	
6,667.0	91.10	267.90	5,401.8	-369.1	-1,633.4	1,635.4	1.30	-1.13	
6,727.0	90.30	268.20	5,401.0	-371.1	-1,693.4	1,695.4	1.42	-1.33	
6,789.0	90.80	268.40	5,400.4	-373.0	-1,755.4	1,757.4	0.87	0.81	
6,851.0	89.70	268.00	5,400.2	-374.9	-1,817.3	1,819.3	1.89	-1.77	
6,912.0	90.00	267.80	5,400.3	-377.1	-1,878.3	1,880.3	0.59	0.49	
6,974.0	92.00	269.00	5,399.3	-378.9	-1,940.3	1,942.3	3.76	3.23	
7,035.0	91.80	270.10	5,397.2	-379.3	-2,001.2	2,003.2	1.83	-0.33	
7,098.0	91.50	268.70	5,395.4	-380.0	-2,064.2	2,066.2	2.27	-0.48	
7,162.0	90.10	267.70	5,394.5	-382.0	-2,128.1	2,130.2	2.69	-2.19	
7,225.0	91.00	268.10	5,393.9	-384.3	-2,191.1	2,193.1	1.56	1.43	
7,288.0	90.70	268.40	5,393.0	-386.3	-2,254.1	2,256.1	0.67	-0.48	
7,351.0	89.80	268.00	5,392.7	-388.2	-2,317.0	2,319.1	1.56	-1.43	
7,414.0	89.50	266.10	5,393.1	-391.5	-2,379.9	2,382.0	3.05	-0.48	
7,477.0	90.90	265.60	5,392.9	-396.0	-2,442.8	2,444.9	2.36	2.22	

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S27-T24N-R9W
Well: Escrito M27-2409 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito M27-2409 02H
TVD Reference: 18' KB @ 6996.0usft (Aztec 1099)
MD Reference: 18' KB @ 6996.0usft (Aztec 1099)
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
7,541.0	91.90	265.10	5,391.3	-401.2	-2,506.5	2,508.7	1.75	1.56	
7,604.0	92.70	266.60	5,388.8	-405.8	-2,569.3	2,571.5	2.70	1.27	
7,667.0	92.10	268.80	5,386.1	-408.3	-2,632.2	2,634.4	3.62	-0.95	
7,730.0	92.20	269.40	5,383.8	-409.3	-2,695.2	2,697.3	0.96	0.16	
7,793.0	90.80	268.60	5,382.1	-410.4	-2,758.1	2,760.3	2.56	-2.22	
7,856.0	89.80	267.10	5,381.8	-412.8	-2,821.1	2,823.3	2.86	-1.59	
7,920.0	90.40	266.60	5,381.7	-416.3	-2,885.0	2,887.2	1.22	0.94	
7,983.0	91.40	267.90	5,380.7	-419.3	-2,947.9	2,950.1	2.60	1.59	
8,046.0	92.10	269.70	5,378.8	-420.6	-3,010.9	3,013.1	3.06	1.11	
8,109.0	91.70	270.30	5,376.7	-420.6	-3,073.8	3,076.1	1.14	-0.63	
8,172.0	92.20	270.10	5,374.5	-420.4	-3,136.8	3,139.0	0.85	0.79	
8,236.0	92.60	269.50	5,371.9	-420.6	-3,200.7	3,203.0	1.13	0.62	
8,299.0	91.50	267.40	5,369.6	-422.3	-3,263.7	3,265.9	3.76	-1.75	
8,362.0	92.70	268.00	5,367.3	-424.8	-3,326.6	3,328.8	2.13	1.90	
8,425.0	91.80	265.70	5,364.8	-428.3	-3,389.4	3,391.7	3.92	-1.43	
8,487.0	91.70	263.60	5,362.9	-434.1	-3,451.1	3,453.4	3.39	-0.16	
8,550.0	94.40	264.20	5,359.6	-440.8	-3,513.7	3,516.0	4.39	4.29	
8,614.0	94.90	267.00	5,354.4	-445.7	-3,577.3	3,579.6	4.43	0.78	
8,677.0	93.60	269.20	5,349.7	-447.7	-3,640.0	3,642.4	4.05	-2.06	
8,740.0	91.50	270.60	5,346.9	-447.8	-3,703.0	3,705.3	4.00	-3.33	
8,803.0	91.30	269.80	5,345.4	-447.6	-3,766.0	3,768.3	1.31	-0.32	
8,867.0	91.20	270.70	5,344.0	-447.3	-3,829.9	3,832.3	1.41	-0.16	
8,930.0	91.30	270.50	5,342.6	-446.7	-3,892.9	3,895.3	0.35	0.16	
8,993.0	92.10	270.40	5,340.7	-446.2	-3,955.9	3,958.3	1.28	1.27	
9,056.0	90.90	271.70	5,339.1	-445.0	-4,018.9	4,021.2	2.81	-1.90	
9,119.0	90.50	271.70	5,338.3	-443.2	-4,081.8	4,084.2	0.63	-0.63	
9,183.0	91.20	271.20	5,337.4	-441.6	-4,145.8	4,148.1	1.34	1.09	
9,246.0	91.80	270.70	5,335.7	-440.5	-4,208.8	4,211.1	1.24	0.95	
9,309.0	90.80	272.40	5,334.3	-438.8	-4,271.7	4,274.0	3.13	-1.59	
9,372.0	91.10	272.40	5,333.3	-436.2	-4,334.7	4,337.0	0.48	0.48	
9,435.0	92.00	272.10	5,331.5	-433.7	-4,397.6	4,399.9	1.51	1.43	
9,498.0	90.60	272.40	5,330.1	-431.2	-4,460.5	4,462.8	2.27	-2.22	
9,562.0	90.40	272.20	5,329.6	-428.7	-4,524.5	4,526.7	0.44	-0.31	
9,625.0	91.30	272.00	5,328.6	-426.3	-4,587.4	4,589.7	1.46	1.43	
9,688.0	92.20	272.30	5,326.7	-424.0	-4,650.3	4,652.6	1.51	1.43	
9,751.0	92.80	272.20	5,324.0	-421.5	-4,713.2	4,715.4	0.97	0.95	
9,814.0	92.10	272.50	5,321.3	-418.9	-4,776.1	4,778.3	1.21	-1.11	
9,877.0	91.40	271.10	5,319.3	-417.0	-4,839.1	4,841.2	2.48	-1.11	
9,941.0	91.40	271.40	5,317.8	-415.6	-4,903.0	4,905.2	0.47	0.00	
10,004.0	92.20	270.00	5,315.8	-414.8	-4,966.0	4,968.2	2.56	1.27	
10,067.0	91.80	268.60	5,313.6	-415.6	-5,028.9	5,031.1	2.31	-0.63	
10,130.0	91.50	267.20	5,311.8	-417.9	-5,091.9	5,094.1	2.27	-0.48	
10,194.0	91.10	265.90	5,310.3	-421.7	-5,155.7	5,157.9	2.12	-0.62	
10,257.0	92.60	265.70	5,308.3	-426.3	-5,218.5	5,220.8	2.40	2.38	
10,282.0	92.60	265.70	5,307.2	-428.2	-5,243.4	5,245.7	0.00	0.00	Last CES Survey @ 10,282' MD
10,338.0	92.60	265.70	5,304.6	-432.4	-5,299.2	5,301.5	0.00	0.00	PTB @ 10,338'

Survey Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S27-T24N-R9W
Well: Escrito M27-2409 02H
Wellbore: Hz
Design: FINAL

Local Co-ordinate Reference: Well Escrito M27-2409 02H
TVD Reference: 18' KB @ 6996.0usft (Aztec 1099)
MD Reference: 18' KB @ 6996.0usft (Aztec 1099)
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 M27-2409 02H P - survey misses target center by 53.8usft at 10338.0usft MD (5304.6 TVD, -432.4 N, -5299.2 E) - Point	0.00	0.00	5,347.5	-403.6	-5,314.1	1,921,282.58	2,732,261.94	36.280170	-107.802220
Escrito M27-2409 02H P - survey misses target center by 51.3usft at 5715.4usft MD (5409.0 TVD, -349.5 N, -682.9 E) - Point	0.00	0.00	5,367.9	-378.6	-692.6	1,921,309.93	2,736,883.41	36.280240	-107.786540
Escrito M27-2409 02H P - survey misses target center by 39.8usft at 10338.0usft MD (5304.6 TVD, -432.4 N, -5299.2 E) - Point	0.00	0.00	5,327.6	-403.6	-5,314.1	1,921,282.58	2,732,261.94	36.280170	-107.802220
Escrito M27-2409 02H P - survey misses target center by 33.7usft at 5721.8usft MD (5410.0 TVD, -349.2 N, -689.2 E) - Point	0.00	0.00	5,393.9	-378.6	-692.6	1,921,309.93	2,736,883.41	36.280240	-107.786540
Escrito M27-2409 02H P - survey misses target center by 32.4usft at 10338.0usft MD (5304.6 TVD, -432.4 N, -5299.2 E) - Point	0.00	0.00	5,304.3	-403.6	-5,314.1	1,921,282.58	2,732,261.94	36.280170	-107.802220
Escrito M27-2409 02H P - survey misses target center by 31.1usft at 5725.4usft MD (5410.5 TVD, -349.0 N, -692.7 E) - Point	0.00	0.00	5,420.1	-378.6	-692.6	1,921,309.93	2,736,883.41	36.280240	-107.786540
Escrito M27-2409 02H P - survey misses target center by 58.8usft at 10338.0usft MD (5304.6 TVD, -432.4 N, -5299.2 E) - Point	0.00	0.00	5,353.6	-403.6	-5,314.1	1,921,282.58	2,732,261.94	36.280170	-107.802220
Escrito M27-2409 02H P - survey misses target center by 64.2usft at 5712.5usft MD (5408.5 TVD, -349.6 N, -680.0 E) - Point	0.00	0.00	5,352.7	-378.6	-692.6	1,921,309.93	2,736,883.41	36.280240	-107.786540

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,282.0	5,307.2	-428.2	-5,243.4	Last CES Survey @ 10,282' MD
10,338.0	5,304.6	-432.4	-5,299.2	PTB @ 10,338'

Checked By: _____ Approved By: _____ Date: _____