

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

District II
811 S. First St., 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 Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87050

Form C-101

Revised October 25, 2012

OIL CONS. DIV DIST. 3
RECD APR 24 '14

APR 24 2014
RECOMMENDED REPORT
DIST. 3

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Encana Oil & Gas (USA) Inc. 370 17 th Street, Suite 1700 Denver, CO 80202		² OGRID Number 282327
		³ API Number 30-045-35543
⁴ Property Code 313178	⁵ Property Name Escrito D02-2408	⁶ Well No. 01H

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
SHL: D	2	24N	8W	4	210	NORTH	634	WEST	SAN JUAN

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
BHL: A	2	24N	8W		430	North	795	EAST	SAN JUAN

⁹ Pool Information

Dufers Point Gallup Dakota (19859)	
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Additional Well Information

¹¹ Work Type N	¹² Well Type O	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 7307.4
¹⁶ Multiple N/A	¹⁷ Proposed Depth 6329' TVD/ 10006' MD	¹⁸ Formation GALLUP	¹⁹ Contractor AZTEC	²⁰ Spud Date 10/21/2014
Depth to Ground water UNKNOWN		Distance from nearest fresh water well GREATER THAN 5280'		Distance to nearest surface water ~9000'

☒ We will be using a closed-loop system in lieu of lined pits

²¹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
CONDUCTOR	26"	16"	42#	120'	200	SURFACE
SURFACE	12 1/4"	9 5/8"	36#	500'	201	SURFACE
INTERMEDIATE	7 7/8"	7"	26#	6305' TVD/ 6506' MD	741	SURFACE
PRODUCTION	6 1/8"	4 1/2"	11.6#	6329' TVD/ 10006' MD	N/A	N/A

Casing/Cement Program: Additional Comments

UNCEMENTED PRODUCTION LINER WITH PACKERS PLACED FOR ISOLATION

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
ANNULAR	3000	1500	TBD
DOUBLE RAM	3000	3000	TBD

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC, if applicable.

Signature:

Printed name: Katie Wegner

Title: Regulatory Analyst

E-mail Address: katie.wegner@encana.com

Date: 4/22/2014

Phone: 720-876-3533

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Conditions of Approval Attached

Expiration Date:

DISTRICT I

1635 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 583-6161 Fax: (575) 583-0780

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (575) 746-1888 Fax: (575) 746-9720

DISTRICT III

1000 Rio Grande Rd., Artesia, N.M. 87410
Phone: (505) 834-6178 Fax: (505) 834-6170

DISTRICT IV

1890 S. St. Francis Dr., Santa Fe, NM 87506
Phone: (505) 478-8400 Fax: (505) 478-8468

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30.045-35543		² Pool Code 19859	³ Pool Name DUFERS POINT
⁴ Property Code 313178	⁵ Property Name ESCRITO D02-2408		⁶ Well Number 01H
⁷ GRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.		⁹ Elevation 7307.4'

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	2	24N	8W	4	210'	NORTH	634'	WEST	SAN JUAN

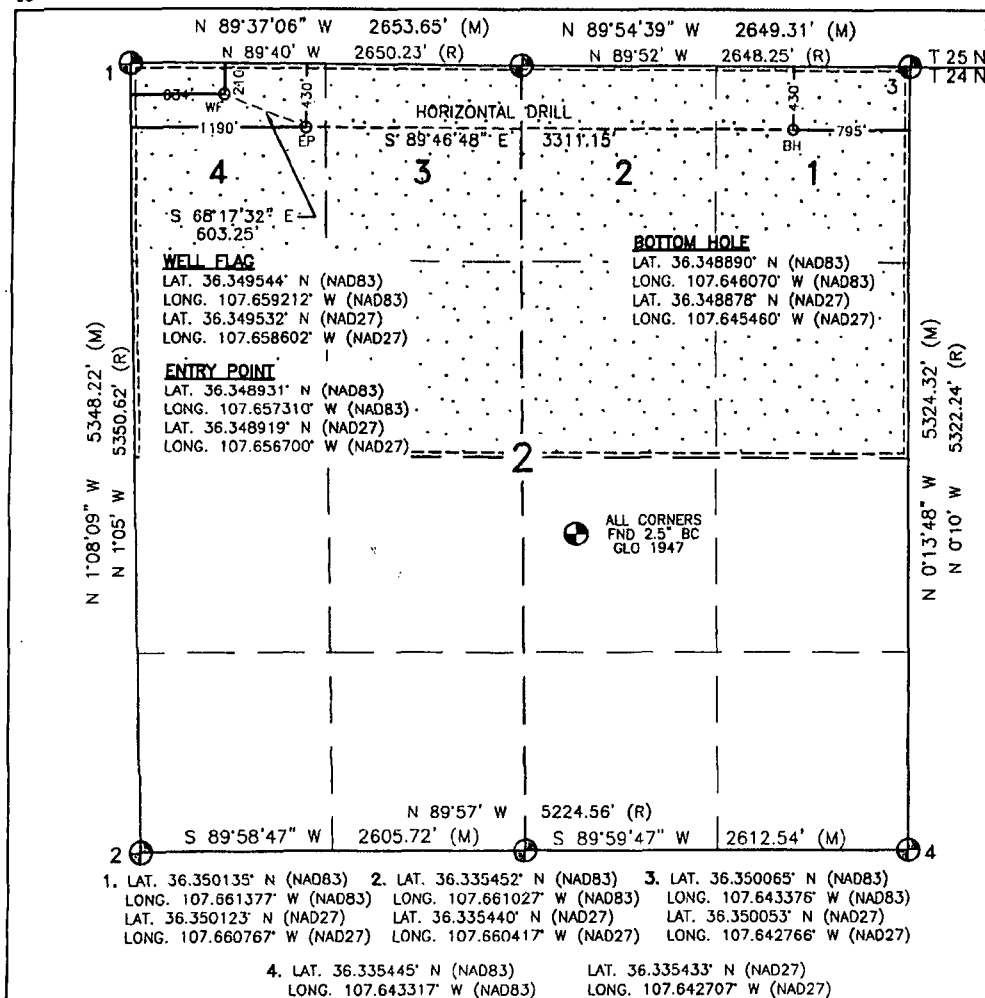
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	2	24N	8W	1	430'	NORTH	795'	EAST	SAN JUAN

¹² Dedicated Acres 320.00 ACRES - N/2 SEC. 2 336.80	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

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**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 4/22/14
Signature Date
Katie Wegner
Printed Name
Katie.wegner@encana.com
E-mail Address

SURVEYOR CERTIFICATION

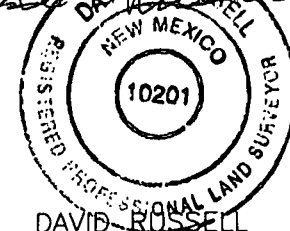
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 25, 2014

Date of Survey

Signature and Seal of Professional Surveyor:

David Russell



Certificate Number

10201

encana

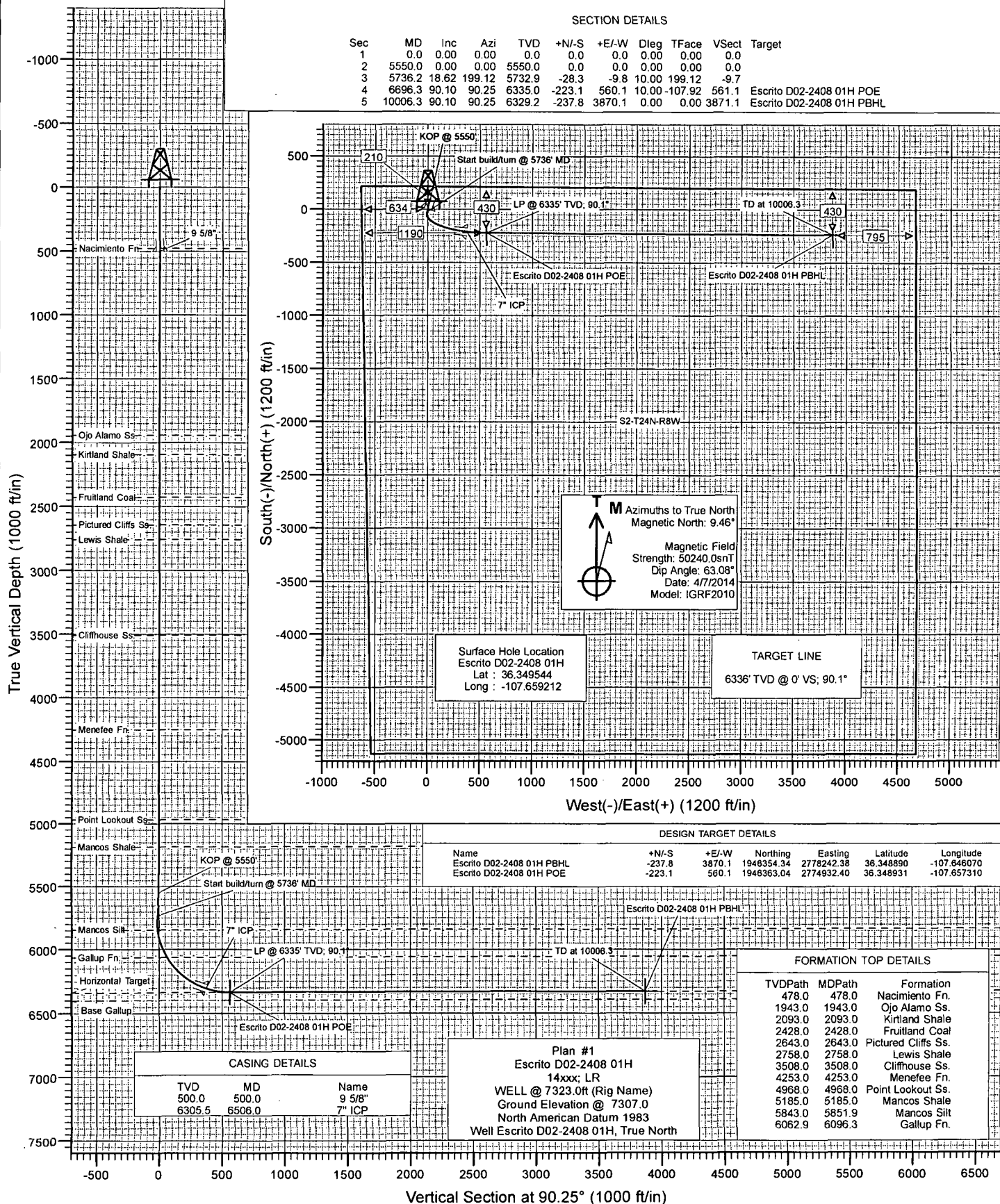
natural gas

Project: San Juan County, NM
Site: S2-T24N-R8W
Well: Escrito D02-2408 01H
Wellbore: Hz
Design: Plan #1

CATHEDRAL

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5550.0	0.00	0.00	5550.0	0.0	0.0	0.00	0.00	0.0	
3	5736.2	18.62	199.12	5732.9	-28.3	-9.8	10.00	199.12	-9.7	
4	6696.3	90.10	90.25	6335.0	-223.1	560.1	10.00	-107.92	561.1	Escrito D02-2408 01H POE
5	10006.3	90.10	90.25	6329.2	-237.8	3870.1	0.00	0.00	3871.1	Escrito D02-2408 01H PBHL



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito D02-2408 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7323.0ft (Rig Name)
Project:	San Juan County, NM	MD Reference:	WELL @ 7323.0ft (Rig Name)
Site:	S2-T24N-R8W	North Reference:	True
Well:	Escrito D02-2408 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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		S2-T24N-R8W			
Site Position:		Northing:	1,946,585.18 ft	Latitude:	36.349544
From:	Lat/Long	Easting:	2,774,371.89 ft	Longitude:	-107.659212
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.10 °

Well	Escrito D02-2408 01H					
Well Position	+N-S	0.0 ft	Northing:	1,946,585.18 ft	Latitude:	36.349544
	+E-W	0.0 ft	Easting:	2,774,371.89 ft	Longitude:	-107.659212
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,307.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	4/7/2014	9.46	63.08	50,240

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	90.25

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,550.0	0.00	0.00	5,550.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,736.2	18.62	199.12	5,732.9	-28.3	-9.8	10.00	10.00	0.00	199.12	
6,696.3	90.10	90.25	6,335.0	-223.1	560.1	10.00	7.45	-11.34	-107.92	Escrito D02-2408 01H
10,006.3	90.10	90.25	6,329.2	-237.8	3,870.1	0.00	0.00	0.00	0.00	Escrito D02-2408 01H

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7323.0ft (Rig Name)
Project:	San Juan County, NM	MD Reference:	WELL @ 7323.0ft (Rig Name)
Site:	S2-T24N-R8W	North Reference:	True
Well:	Escrito D02-2408 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
478.0	0.00	0.00	478.0	0.0	0.0	0.0	0.00	0.00	Nacimiento Fn.
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	9 5/8"
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
1,943.0	0.00	0.00	1,943.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,093.0	0.00	0.00	2,093.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,428.0	0.00	0.00	2,428.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,643.0	0.00	0.00	2,643.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,758.0	0.00	0.00	2,758.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
3,508.0	0.00	0.00	3,508.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	
4,253.0	0.00	0.00	4,253.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito D02-2408 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7323.0ft (Rig Name)
Project:	San Juan County, NM	MD Reference:	WELL @ 7323.0ft (Rig Name)
Site:	S2-T24N-R8W	North Reference:	True
Well:	Escrito D02-2408 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	
4,968.0	0.00	0.00	4,968.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	
5,185.0	0.00	0.00	5,185.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	
5,550.0	0.00	0.00	5,550.0	0.0	0.0	0.0	0.00	0.00	KOP @ 5550'
5,600.0	5.00	199.12	5,599.9	-2.1	-0.7	-0.7	10.00	10.00	
5,700.0	15.00	199.12	5,698.3	-18.4	-6.4	-6.3	10.00	10.00	
5,736.2	18.62	199.12	5,732.9	-28.3	-9.8	-9.7	10.00	10.00	Start build/turn @ 5736' MD
5,800.0	17.69	178.75	5,793.6	-47.7	-13.0	-12.7	10.00	-1.45	
5,852.0	18.54	162.19	5,843.1	-63.5	-10.2	-10.0	10.00	1.64	Mancos Silt
5,900.0	20.46	148.98	5,888.3	-77.9	-3.6	-3.2	10.00	4.00	
6,000.0	26.80	129.43	5,980.1	-107.3	22.9	23.4	10.00	6.33	
6,096.7	34.52	117.91	6,063.2	-134.0	64.0	64.6	10.00	7.98	Gallup Fn.
6,100.0	34.80	117.59	6,066.0	-134.9	65.7	66.3	10.00	8.45	
6,200.0	43.55	109.88	6,143.5	-159.9	123.5	124.2	10.00	8.75	
6,300.0	52.67	104.36	6,210.2	-181.5	194.6	195.4	10.00	9.12	
6,400.0	62.00	100.05	6,264.1	-199.1	276.8	277.7	10.00	9.32	
6,500.0	71.43	96.43	6,303.6	-212.2	367.6	368.5	10.00	9.44	
6,506.0	72.00	96.23	6,305.5	-212.8	373.3	374.2	10.00	9.48	7" ICP
6,600.0	80.93	93.20	6,327.5	-220.3	464.3	465.2	10.00	9.50	
6,696.3	90.10	90.25	6,335.0	-223.1	560.1	561.1	10.00	9.52	LP @ 6335' TVD; 90.1° - Escrito D02-2408 01H
6,700.0	90.10	90.25	6,335.0	-223.2	563.8	564.8	0.00	0.00	
6,800.0	90.10	90.25	6,334.8	-223.6	663.8	664.8	0.00	0.00	
6,900.0	90.10	90.25	6,334.6	-224.0	763.8	764.8	0.00	0.00	
7,000.0	90.10	90.25	6,334.5	-224.5	863.8	864.8	0.00	0.00	
7,100.0	90.10	90.25	6,334.3	-224.9	963.8	964.8	0.00	0.00	
7,200.0	90.10	90.25	6,334.1	-225.4	1,063.8	1,064.8	0.00	0.00	
7,300.0	90.10	90.25	6,333.9	-225.8	1,163.8	1,164.8	0.00	0.00	
7,400.0	90.10	90.25	6,333.8	-226.3	1,263.8	1,264.8	0.00	0.00	
7,500.0	90.10	90.25	6,333.6	-226.7	1,363.8	1,364.8	0.00	0.00	
7,600.0	90.10	90.25	6,333.4	-227.2	1,463.8	1,464.8	0.00	0.00	
7,700.0	90.10	90.25	6,333.2	-227.6	1,563.8	1,564.8	0.00	0.00	
7,800.0	90.10	90.25	6,333.1	-228.0	1,663.8	1,664.8	0.00	0.00	
7,900.0	90.10	90.25	6,332.9	-228.5	1,763.8	1,764.8	0.00	0.00	
8,000.0	90.10	90.25	6,332.7	-228.9	1,863.8	1,864.8	0.00	0.00	
8,100.0	90.10	90.25	6,332.5	-229.4	1,963.8	1,964.8	0.00	0.00	
8,200.0	90.10	90.25	6,332.4	-229.8	2,063.8	2,064.8	0.00	0.00	
8,300.0	90.10	90.25	6,332.2	-230.3	2,163.8	2,164.8	0.00	0.00	
8,400.0	90.10	90.25	6,332.0	-230.7	2,263.8	2,264.8	0.00	0.00	
8,500.0	90.10	90.25	6,331.8	-231.1	2,363.8	2,364.8	0.00	0.00	
8,600.0	90.10	90.25	6,331.7	-231.6	2,463.8	2,464.8	0.00	0.00	
8,700.0	90.10	90.25	6,331.5	-232.0	2,563.8	2,564.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito D02-2408 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7323.0ft (Rig Name)
Project:	San Juan County, NM	MD Reference:	WELL @ 7323.0ft (Rig Name)
Site:	S2-T24N-R8W	North Reference:	True
Well:	Escrito D02-2408 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.10	90.25	6,331.3	-232.5	2,663.8	2,664.8	0.00	0.00	
8,900.0	90.10	90.25	6,331.1	-232.9	2,763.8	2,764.8	0.00	0.00	
9,000.0	90.10	90.25	6,331.0	-233.4	2,863.8	2,864.8	0.00	0.00	
9,100.0	90.10	90.25	6,330.8	-233.8	2,963.8	2,964.8	0.00	0.00	
9,200.0	90.10	90.25	6,330.6	-234.2	3,063.8	3,064.8	0.00	0.00	
9,300.0	90.10	90.25	6,330.4	-234.7	3,163.8	3,164.8	0.00	0.00	
9,400.0	90.10	90.25	6,330.3	-235.1	3,263.8	3,264.8	0.00	0.00	
9,500.0	90.10	90.25	6,330.1	-235.6	3,363.8	3,364.8	0.00	0.00	
9,600.0	90.10	90.25	6,329.9	-236.0	3,463.8	3,464.8	0.00	0.00	
9,700.0	90.10	90.25	6,329.7	-236.5	3,563.8	3,564.8	0.00	0.00	
9,800.0	90.10	90.25	6,329.6	-236.9	3,663.8	3,664.8	0.00	0.00	
9,900.0	90.10	90.25	6,329.4	-237.3	3,763.8	3,764.8	0.00	0.00	
10,000.0	90.10	90.25	6,329.2	-237.8	3,863.8	3,864.8	0.00	0.00	
10,006.3	90.10	90.25	6,329.2	-237.8	3,870.1	3,871.1	0.00	0.00	TD at 10006.3 - Escrito D02-2408 01H PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Escrito D02-2408 01H P	0.00	0.00	6,329.2	-237.8	3,870.1	1,946,354.34	2,778,242.38	36.348890	-107.646070
- plan hits target center									
- Point									
Escrito D02-2408 01H P	0.00	0.00	6,335.0	-223.1	560.1	1,946,363.04	2,774,932.40	36.348931	-107.657310
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
500.0	500.0	9 5/8"	0.000	0.000	
6,506.0	6,305.5	7" ICP	0.000	0.000	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito D02-2408 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7323.0ft (Rig Name)
Project:	San Juan County, NM	MD Reference:	WELL @ 7323.0ft (Rig Name)
Site:	S2-T24N-R8W	North Reference:	True
Well:	Escrito D02-2408 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
478.0	478.0	Nacimiento Fn.		-0.10	
1,943.0	1,943.0	Ojo Alamo Ss.		-0.10	
2,093.0	2,093.0	Kirtland Shale		-0.10	
2,428.0	2,428.0	Fruitland Coal		-0.10	
2,643.0	2,643.0	Pictured Cliffs Ss.		-0.10	
2,758.0	2,758.0	Lewis Shale		-0.10	
3,508.0	3,508.0	Cliffhouse Ss.		-0.10	
4,253.0	4,253.0	Menefee Fn.		-0.10	
4,968.0	4,968.0	Point Lookout Ss.		-0.10	
5,185.0	5,185.0	Mancos Shale		-0.10	
5,852.0	5,843.0	Mancos Silt		-0.10	
6,096.7	6,063.0	Gallup Fn.		-0.10	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,550.0	5,550.0	0.0	0.0	KOP @ 5550'
5,736.2	5,732.9	-28.3	-9.8	Start build/turn @ 5736' MD
6,696.3	6,335.0	-223.1	560.1	LP @ 6335' TVD; 90.1°
10,006.3	6,329.2	-237.8	3,870.1	TD at 10006.3

LOC: NW/4 NW/4 2 24N 8W 430 FNL 119			Encana Natural Gas			ENG: S Kuykendall 4/21/14			
County: San Juan			WELL SUMMARY			RIG: Aztec 950			
WELL: Escrito D02-2408 01H						GLE: 7307.4			
						RKBE: 7323.4			
MWD	OPEN HOLE		DEPTH			HOLE	CASING	MW	DEVIATION
LWD	LOGGING	FORM	TVD	MD		SIZE	SPECS	MUD TYPE	INFORMATION
			60	60'		30	20" 94# 100sx Type I Neat 16.0ppg cmt	Fresh wtr 8.3-10	
Multi-Well pad - take survey every stand and run anti- collision report prior to spud	None				12 1/4		9 5/8" 36ppf J55 STC	Fresh wtr 8.3-10	Vertical <1°
		Nacimiento 9 5/8" Csg	0 478	500.00			TOC Surface - 201 sks of Type III Cement		
Survey Every 60'-120', updating anticollision report after surveys. Stop operations and contact drilling engineer if separation factor approaches 1.5	No OH logs	Ojo Alamo Ss. Kirtland Shale	1,943 2,093	Stage tool @ ~ 2,808 8 3/4		7" 26ppf J55 LTC TOC @ surface 30% OH excess: 741 sksTotal. Stage 1 Lead: 507 sks Premium Lite FM + 3% CaCl2 + 0.25/sk Cello Flake + 5#/sk LCM-1 + 8% Bentonite + 0.4% FL- 52A + 0.4% Sodium Metasilicate. Mixed at 12.1 ppg. Yield 2.13 cuft/sk. Stage 1 Tail: 234 sks Type III Cement + 1% CaCl2 + 0.25#/sk Cello Flake + 0.2% FL-52A. Mixed at 14.6 ppg. Yield 1.38 cuft/sk. Stage 2: 168 sks Premium Lite FM + 3% CaCl2 + 0.25/sk Cello Flake + 5#/sk LCM-1 + 8% Bentonite + 0.4% FL-52A + 0.4% Sodium Metasilicate. Mixed at 12.1 ppg. Yield 2.13 cuft/sk.	Fresh Wtr 8.3-10	Vertical <1°	
		Fruitland Coal	2,428						
		Pictured Cliffs Ss. Lewis Shale	2,643 2,758						
		Cliffhouse Ss. Menefee Fn.	3,508 4,253						
		Point Lookout Ss. Mancos Shale	4,968 5,185						
	Mud logger onsite	KOP	5,550						5,550
Surveys every 30' through the curve		Mancos Silt	5,843	6 1/8		200' overlap at liner top 3500' Drilled Lateral	Horizontal Inclination Horizontal TVD 8.3-10.0 WBM	Horz Inc/TVD /90.1 TD = 10006.3 MD	
		Gallup Fn.	6,063						
		7" Csg	6,305						6,506'
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	Horizontal Target TD	6,336 6,329	10,006	4 1/2" 11.6ppf SB80 LTC	Running external swellable csg packers for isolation of prod string Plan on setting top packer within 100' of intermediate casing shoe			
		Base Gallup	6,398						
MWD Gamma Directional									

NOTES:

- 1) Drill with 30" bit to 60', set 20" 94# conductor pipe
- 2) Drill surface to 500', R&C 9 5/8" casing
- 3) N/U BOP and surface equipment
- 4) Drill to KOP of 5550', 8 3/4 inch holesize
- 5) PU directional tools and start curve at 10deg/100' build rate
- 6) Drill to csg point of 6506' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at ~90 deg, drill lateral to 10006' run 4 1/2 inch liner with external swellable csg packers

ENCANA OIL & GAS (USA) INC.

ESCRITO D02-2408 #01H

210' FNL & 634' FWL

LOCATED IN THE NW/4 NW/4 OF SECTION 2,

T24N, R8W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HWY 64 & HWY 550 IN BLOOMFIELD, GO SOUTH ON HWY 550, 42.6 MILES TO CR 7997 (MP 120.7).
- 2) TURN LEFT AND GO 3.1 MILES TO "Y" INTERSECTION.
- 3) TURN RIGHT AND GO 1.2 MILES TO GATE.
- 4) CONTINUE THROUGH GATE AND GO 3.0 MILES TO "Y" INTERSECTION.
- 5) TURN LEFT AND GO 0.1 MILES.
- 6) TURN LEFT AND GO 0.2 MILES, WHERE ACCESS IS STAKED ON LEFT SIDE OF ROAD.

WELL FLAG LOCATED AT LAT. 36.349544° N, LONG. 107.659212° W (NAD 83).

