

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 87505

Form C-101
Revised August 1, 2011

Permit

RCVD MAR 16 '12
OIL CONS. DIV.
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 30-045-35362
⁴ Property Code 39128	⁵ Property Name ESCRITO H6-2409	⁶ Well No. 01H

⁷ Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
SHL: I	16	24N	9W		2230	SOUTH	300	EAST	SAN JUAN
BHL: L	16	24N	9W		2230	SOUTH	330	WEST	SAN JUAN

⁸ Pool Information

BISTI LOWER - GALLUP (5890)

Additional Well Information

⁹ Work Type N	¹⁰ Well Type O	¹¹ Cable/Rotary R	¹² Lease Type S	¹³ Ground Level Elevation 6821	
¹⁴ Multiple N/A	¹⁵ Proposed Depth 5344' TVD/9765' MD	¹⁶ Formation GALLUP	¹⁷ Contractor AZTEC	¹⁸ Spud Date 06/01/12	
Depth to Ground water	UNKNOWN	Distance from nearest fresh water well	GREATER THAN 5280'	Distance to nearest surface water	2640' (dry)

¹⁹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
CONDUCTOR	26"	26"	94#	60'	80	SURFACE
SURFACE	17 1/2"	13 3/8"	48#	500'	291	SURFACE
INTERMEDIATE	12 1/4"	9 5/8"	40#	4600'	901 (50% OH EXCESS)	SURFACE
PROD. LINER	8 1/2"	5 1/2"	17#	4400'-9765' MD	N/A	N/A

Casing/Cement Program: Additional Comments

HORIZONTAL LATERAL IN THE GALLUP FORMATION NO CEMENT IN THE PRODUCTION LINER, WILL RUN EXTERNAL SWELL CASING PACKER SYSTEM. WILL USE OIL BASED MUD SYSTEM FROM KOP TO TD OF HORIZONTAL LATERAL

Proposed Blowout Prevention Program

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

CONFIDENTIAL

CONFIDENTIAL

I hereby certify that the information given above is true and complete to the best of my knowledge and belief NO DRILLING PIT WILL BE USED. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .		OIL CONSERVATION DIVISION	
Printed name BRENDA R. LINSTER		Approved By	
Title REGULATORY ADVISOR		Title SUPERVISOR DISTRICT # 3	
E-mail Address. BRENDA.LINSTER@ENCANA.COM		Approved Date APR 02 2012	Expiration Date APR 02 2014
Date 03.13.12	Phone 720-876-3989	Conditions of Approval Attached	

APR 02 2012

closed loop sys for oil base mud

CONFIDENTIAL

Hold C104 for Directional Survey and "As Drilled" plat
NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

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State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35362		*Pool Code 5890	*Pool Name BISTI LOWER - GALLUP
*Property Code 39128	*Property Name ESCRITO I16-2409		*Well Number 01H
*GRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.		*Elevation 6821'

¹⁰ Surface Location

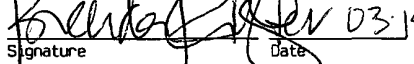
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	16	24N	9W		2230	SOUTH	300	EAST	SAN JUAN

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	16	24N	9W		2230	SOUTH	330	WEST	SAN JUAN

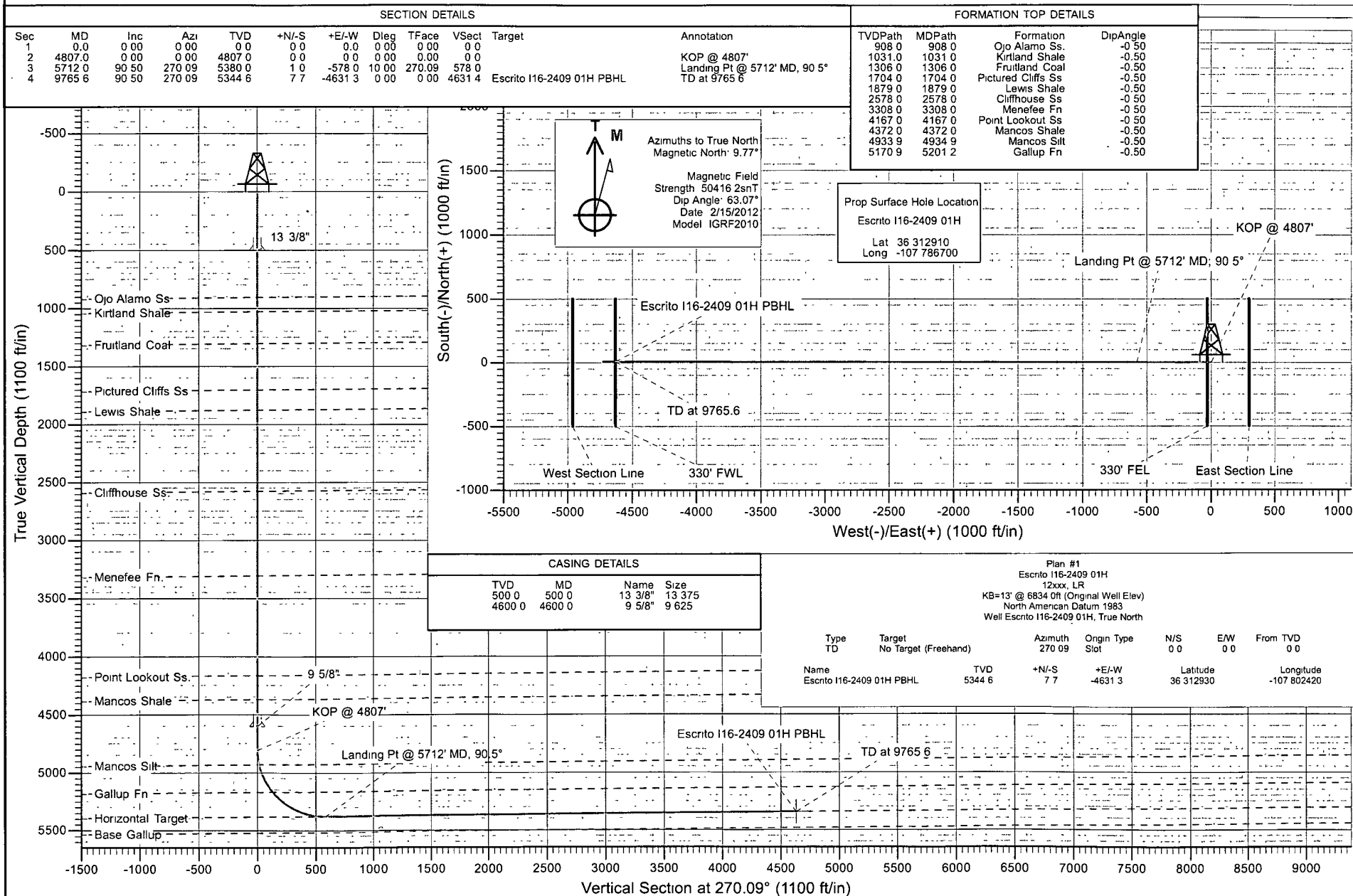
¹² Dedicated Acres 160.0 Acres - (N/2 S/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 NB9°36'42"W 2633.43' (MEASURED) SB9°52'W 2639.34' (RECORD)	589°49'59"W 2624.47' (MEASURED) SB9°52'W 2639.34' (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 Date Brenda R. Linster, Regulatory Advisor Printed Name brenda.linster@encana.com E-mail Address
BOTTOM-HOLE LAT: 36.31292°N LONG: 107.80181°W DATUM: NAD1927 LAT: 36.31293°N LONG: 107.80242°W DATUM: NAD1983 SURFACE LOCATION LAT: 36.31290°N LONG: 107.78609°W DATUM: NAD1927 LAT: 36.31291°N LONG: 107.78670°W DATUM: NAD1983		



Project: San Juan Co, NM
Site: S16-T24N-R9W (Escrito)
Well: Escrito I16-2409 01H
Wellbore: Hz
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito I16-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 6834.0ft (Original Well Elev)
Project:	San Juan Co, NM	MD Reference:	KB=13' @ 6834.0ft (Original Well Elev)
Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito I16-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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	S16-T24N-R9W (Escrito)				
Site Position:		Northing:	1,933,206.49 ft	Latitude:	36 312910
From:	Lat/Long	Easting:	2,736,836.00 ft	Longitude:	-107.786700
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.03 °

Well	Escrito I16-2409 01H					
Well Position	+N/-S	0.0 ft	Northing:	1,933,206.49 ft	Latitude:	36 312910
	+E/-W	0.0 ft	Easting:	2,736,836.00 ft	Longitude:	-107 786700
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,821.0 ft	

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/15/2012	9.77	63.07	50.41

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	270.0

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(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	
4,807.0	0.00	0.00	4,807.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,712.0	90.50	270.09	5,380.0	1.0	-578.0	10.00	10.00	0.00	270.09	
9,765.6	90.50	270.09	5,344.6	7.7	-4,631.3	0.00	0.00	0.00	0.00	Escrito I16-2409 01H

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito 116-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 6834.0ft (Original Well Elev)
Project:	San Juan Co, NM	MD Reference:	KB=13' @ 6834.0ft (Original Well Elev)
Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito 116-2409 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	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	13 3/8"
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	
908.0	0.00	0.00	908.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,031.0	0.00	0.00	1,031.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
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	
1,306.0	0.00	0.00	1,306.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	
1,704.0	0.00	0.00	1,704.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,879.0	0.00	0.00	1,879.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
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	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,578.0	0.00	0.00	2,578.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
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	
3,308.0	0.00	0.00	3,308.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
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	
3,600.0	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	
4,167.0	0.00	0.00	4,167.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	

Planning Report

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Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito I16-2409 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
4,372.0	0.00	0.00	4,372.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale
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	9 5/8"
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	
4,807.0	0.00	0.00	4,807.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4807'
4,900.0	9.30	270.09	4,899.6	0.0	-7.5	7.5	10.00	10.00	
4,935.1	12.80	270.09	4,934.0	0.0	-14.2	14.2	10.00	10.00	Mancos Silt
5,000.0	19.30	270.09	4,996.4	0.1	-32.2	32.2	10.00	10.00	
5,100.0	29.30	270.09	5,087.4	0.1	-73.3	73.3	10.00	10.00	
5,200.0	39.30	270.09	5,169.9	0.2	-129.6	129.6	10.00	10.00	
5,202.7	39.57	270.09	5,172.0	0.2	-131.3	131.3	10.00	10.00	Gallup Fn.
5,300.0	49.30	270.09	5,241.4	0.3	-199.3	199.3	10.00	10.00	
5,400.0	59.30	270.09	5,299.7	0.5	-280.4	280.4	10.00	10.00	
5,500.0	69.30	270.09	5,343.0	0.6	-370.4	370.4	10.00	10.00	
5,600.0	79.30	270.09	5,370.0	0.8	-466.6	466.6	10.00	10.00	
5,700.0	89.30	270.09	5,379.9	0.9	-565.9	565.9	10.00	10.00	
5,712.0	90.50	270.09	5,380.0	1.0	-578.0	578.0	10.00	10.00	Landing Pt @ 5712' MD; 90.5°
5,800.0	90.50	270.09	5,379.2	1.1	-665.9	665.9	0.00	0.00	
5,900.0	90.50	270.09	5,378.3	1.3	-765.9	765.9	0.00	0.00	
6,000.0	90.50	270.09	5,377.4	1.4	-865.9	865.9	0.00	0.00	
6,100.0	90.50	270.09	5,376.6	1.6	-965.9	965.9	0.00	0.00	
6,200.0	90.50	270.09	5,375.7	1.8	-1,065.9	1,065.9	0.00	0.00	
6,300.0	90.50	270.09	5,374.8	1.9	-1,165.9	1,165.9	0.00	0.00	
6,400.0	90.50	270.09	5,373.9	2.1	-1,265.9	1,265.9	0.00	0.00	
6,500.0	90.50	270.09	5,373.1	2.3	-1,365.9	1,365.9	0.00	0.00	
6,600.0	90.50	270.09	5,372.2	2.4	-1,465.9	1,465.9	0.00	0.00	
6,700.0	90.50	270.09	5,371.3	2.6	-1,565.9	1,565.9	0.00	0.00	
6,800.0	90.50	270.09	5,370.5	2.8	-1,665.9	1,665.9	0.00	0.00	
6,900.0	90.50	270.09	5,369.6	2.9	-1,765.9	1,765.9	0.00	0.00	
7,000.0	90.50	270.09	5,368.7	3.1	-1,865.9	1,865.9	0.00	0.00	
7,100.0	90.50	270.09	5,367.8	3.3	-1,965.9	1,965.9	0.00	0.00	
7,200.0	90.50	270.09	5,367.0	3.4	-2,065.9	2,065.9	0.00	0.00	
7,300.0	90.50	270.09	5,366.1	3.6	-2,165.9	2,165.9	0.00	0.00	
7,400.0	90.50	270.09	5,365.2	3.7	-2,265.9	2,265.9	0.00	0.00	
7,500.0	90.50	270.09	5,364.4	3.9	-2,365.9	2,365.9	0.00	0.00	
7,600.0	90.50	270.09	5,363.5	4.1	-2,465.9	2,465.9	0.00	0.00	
7,700.0	90.50	270.09	5,362.6	4.2	-2,565.9	2,565.9	0.00	0.00	
7,800.0	90.50	270.09	5,361.7	4.4	-2,665.9	2,665.9	0.00	0.00	
7,900.0	90.50	270.09	5,360.9	4.6	-2,765.9	2,765.9	0.00	0.00	
8,000.0	90.50	270.09	5,360.0	4.7	-2,865.8	2,865.9	0.00	0.00	
8,100.0	90.50	270.09	5,359.1	4.9	-2,965.8	2,965.8	0.00	0.00	
8,200.0	90.50	270.09	5,358.2	5.1	-3,065.8	3,065.8	0.00	0.00	
8,300.0	90.50	270.09	5,357.4	5.2	-3,165.8	3,165.8	0.00	0.00	
8,400.0	90.50	270.09	5,356.5	5.4	-3,265.8	3,265.8	0.00	0.00	
8,500.0	90.50	270.09	5,355.6	5.6	-3,365.8	3,365.8	0.00	0.00	
8,600.0	90.50	270.09	5,354.8	5.7	-3,465.8	3,465.8	0.00	0.00	
8,700.0	90.50	270.09	5,353.9	5.9	-3,565.8	3,565.8	0.00	0.00	
8,800.0	90.50	270.09	5,353.0	6.1	-3,665.8	3,665.8	0.00	0.00	
8,900.0	90.50	270.09	5,352.1	6.2	-3,765.8	3,765.8	0.00	0.00	
9,000.0	90.50	270.09	5,351.3	6.4	-3,865.8	3,865.8	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan Co, NM
Site: S16-T24N-R9W (Escrito)
Well: Escrito I16-2409 01H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Escrito I16-2409 01H
TVD Reference: KB=13' @ 6834.0ft (Original Well Elev)
MD Reference: KB=13' @ 6834.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
9,100.0	90.50	270.09	5,350.4	6.6	-3,965.8	3,965.8	0.00	0.00	
9,200.0	90.50	270.09	5,349.5	6.7	-4,065.8	4,065.8	0.00	0.00	
9,300.0	90.50	270.09	5,348.6	6.9	-4,165.8	4,165.8	0.00	0.00	
9,400.0	90.50	270.09	5,347.8	7.1	-4,265.8	4,265.8	0.00	0.00	
9,500.0	90.50	270.09	5,346.9	7.2	-4,365.8	4,365.8	0.00	0.00	
9,600.0	90.50	270.09	5,346.0	7.4	-4,465.8	4,465.8	0.00	0.00	
9,700.0	90.50	270.09	5,345.2	7.5	-4,565.8	4,565.8	0.00	0.00	
9,765.6	90.50	270.09	5,344.6	7.7	-4,631.3	4,631.4	0.00	0.00	TD at 9765.6 - Escrito I16-2409 01H PBHL

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
Escrito I16-2409 01H PE	0.00	0.00	5,344.6	7.7	-4,631.3	1,933,211.91	2,732,204.64	36.312930	-107.802420
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
4,600.0	4,600.0	9 5/8"	9.625	9.625
500.0	500.0	13 3/8"	13.375	13.375

Formations

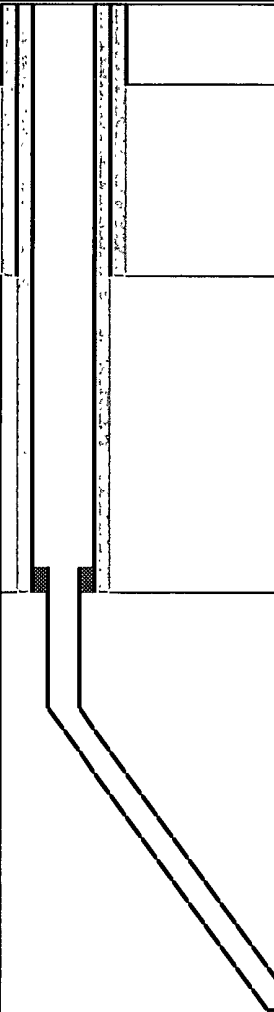
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
908.0	908.0	Ojo Alamo Ss.			
1,031.0	1,031.0	Kirtland Shale			
1,306.0	1,306.0	Fruitland Coal			
1,704.0	1,704.0	Pictured Cliffs Ss.			
1,879.0	1,879.0	Lewis Shale			
2,578.0	2,578.0	Cliffhouse Ss.			
3,308.0	3,308.0	Menefee Fn			
4,167.0	4,167.0	Point Lookout Ss.			
4,372.0	4,372.0	Mancos Shale			
4,935.1	4,934.0	Mancos Silt			
5,202.7	5,172.0	Gallup Fn.			

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito I16-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 6834.0ft (Original Well Elev)
Project:	San Juan Co, NM	MD Reference:	KB=13' @ 6834.0ft (Original Well Elev)
Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito I16-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,807.0	4,807.0	0.0	0.0	KOP @ 4807'
5,712.0	5,380.0	1.0	-578.0	Landing Pt @ 5712' MD; 90.5°
9,765.6	5,344.6	7.7	-4,631.3	TD at 9765.6

LOC: Sec 16-T24N-R9W County: San Juan WELL: Escrito I16-2409 01H			Encana Natural Gas WELL SUMMARY				encana™ natural gas		ENG: J. Fox/ A RIG: GLE: 6821 RKBE:		3/13/12
MWD LWD	OPEN HOLE LOGGING	FORM	DEPTH				HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION	
			TVD	MD							
			60	60'		26	20" 94# Cement to Surface	Fresh wtr 8 3-9 2			
Surveys After csg is run	None		500	500		17 1/2	13 3/8" 48ppf H40 STC Cement to Surface	Fresh wtr 8 4-8 6	Vertical <1°		
Surveys every 500'	No OH logs Mud logger onsite	Ojo Alamo Kirtland Shale Fruitland Coal Pictured Cliffs Ss Lewis Shale Cliffhouse Ss Menefee Fn Point Lookout Ss Mancos Sh	908 1031 1306 1704 1879 2578 3308 4167 4372 4600			12 1/4	9 5/8" 40ppf J55 STC Cement to Surface	Fresh Wtr 8 5-8 8	Vertical <1°		
Surveys every 500' Gyro at CP MWD Gamma Directional	No OH Logs	KICK OFF PT Mancos Silt Gallup Top horz target Base Gallup	4807 4934 5172 5380 5524	5712		8 1/2	5 1/2" 17ppf I/L80 LTC Running external swellable csg packers for isolation of prod string 200' overlap at liner top 4053' Lateral	Fresh Wtr 8 5-8 8 Switch to OBM at K/O 8 6-9 0 8 6-9 0 OBM	KOP 4807 10 deg/100' 5deg updip 5344'TVD TD = 9765' MD		

NOTES:

- 1) Drill with 26" bit to 60', set 20" 94# conductor pipe
- 2) Drill surface to 500', R&C 13 3/8" casing
- 3) N/U BOP and surface equipment
- 4) Drill to 4100', 12 1/4" hole size
- 5) R&C 9 5/8" casing, circ cmt 50' into sur csg shoe
- 6) Drill 8 1/2" hole to KOP, switch to OBM
- 7) PU directional tools and start curve at 10deg/100' build rate
- 8) Land at 90deg, drill 4053' lateral to 9765', run 5 1/2" liner with external swellable csg packers