

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

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

WELL API NO.
30-045-35362

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
Escrito 116-2409

8. Well Number
01H

9. OGRID Number
282327

10. Pool name or Wildcat
Bisti Lower - Gallup

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS)
1. Type of Well: Oil Well ☒ Gas Well ☐ Other **CONFIDENTIAL**

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

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

4. Well Location
SHL: Unit Letter I: 2230 feet from the SOUTH line and 300 feet from the EAST line
BHL: Unit Letter L: 2230 feet from the SOUTH line and 330 feet from the WEST line.

Section 16 Township 24N Range 09W NMPM

County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6821 GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Encana Oil & Gas (USA) Inc. (Encana) would like to change casing, BOP and directional plans for the Escrito 116-2409 01H oil well. Please see the attached revised APD, directional plan and wellbore diagram.

RCVD SEP 10 '12
OIL CONS. DIV.
DIST. 3

Spud Date:

Rig Release Date:

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

SIGNATURE Amanda Cavoto TITLE Engineering Technologist DATE 09/06/12

Type or print name Amanda Cavoto E-mail address: amanda.cavoto@encana.com PHONE: 720-876-3437
For State Use Only

APPROVED BY Charles Herin TITLE SUPERVISOR DISTRICT # 3 DATE SEP 18 2012

Conditions of Approval (if any):

AV

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

CONFIDENTIAL

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

¹ Operator Name and Address ENCANA OIL & GAS (USA) INC. 370 17TH STREET, SUITE 1700 DENVER, CO 80202		² OGRID Number 282327 ³ API Number 30-045-35362
⁴ Property Code 39128	⁵ Property Name ESCRITO II6-2409	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

RCUD SEP 10 '12

BISTI LOWER - GALLUP (5890)	OIL CONS. DIV.
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Additional Well Information

DIST. 3

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 5379' TVD/9786' MD	¹⁶ Formation GALLUP	¹⁷ Contractor AZTEC	¹⁸ Spud Date ~10/01/12
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	30"	20"	94#	60'	100	SURFACE
SURFACE	12 1/4"	9 5/8"	36#	500'	178	SURFACE
INTERMEDIATE	8 1/2"	7"	26#	5355'TVD/5550'MD	585 (30% OH EXCESS)	SURFACE
PROD. LINER	6 1/8"	4 1/2"	11 6#	5350'-9786' 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 INTERMEDIATE CASING POINT TO TD OF HORIZONTAL LATERAL.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
ANNULAR	3000	1500	TBD
SINGLE RAM	3000	3000	TBD
ROTATING HEAD	3000	1500	TBD

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

Approved By.

Printed name **BRENDA R. LINSTER**

Title:

Title: **REGULATORY ADVISOR**

Approved Date:

Expiration Date:

E-mail Address **BRENDA.LINSTER@ENCANA.COM**

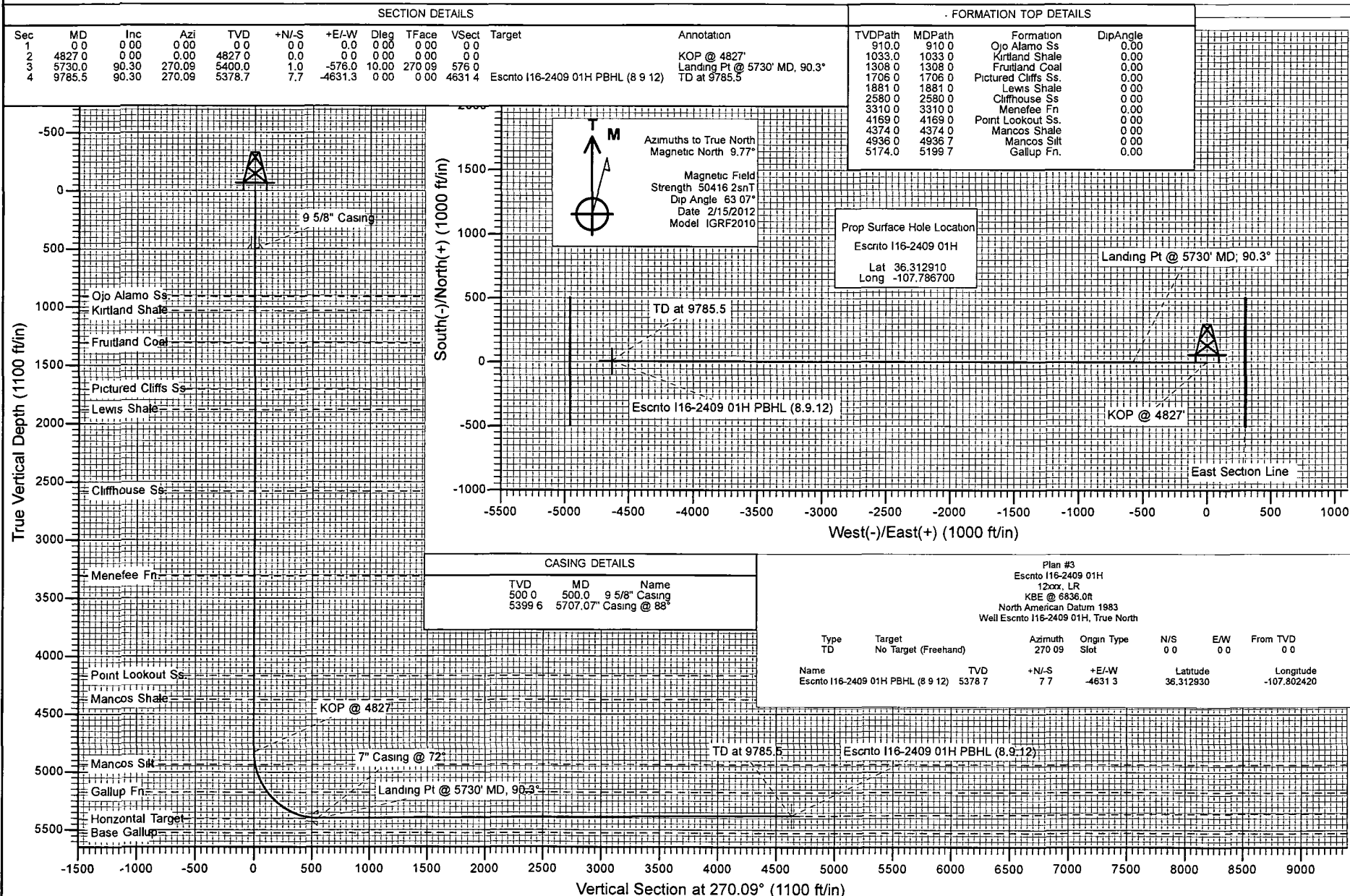
Date:

Phone: **720-876-3989**

Conditions of Approval Attached



Project: San Juan Co, NM
Site: S16-T24N-R9W (Escrito)
Well: Escrito I16-2409 01H
Wellbore: Hz
Design: Plan #3



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:	KBE @ 6836.0ft
Project:	San Juan Co, NM	MD Reference:	KBE @ 6836 0ft
Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito I16-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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:	6,823.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	2/15/2012	9.77	63.07	50,416

Design	Plan #3			
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 09

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	
4,827 0	0.00	0.00	4,827.0	0.0	0 0	0 00	0 00	0 00	0 00	
5,730.0	90.30	270 09	5,400.0	1.0	-576 0	10 00	10 00	0 00	270 09	
9,785 5	90.30	270 09	5,378.7	7.7	-4,631 3	0 00	0.00	0.00	0 00	Escrito I16-2409 01H

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6836 0ft
Project:	San Juan Co, NM	MD Reference:	KBE @ 6836.0ft
Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito I16-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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	9 5/8" Casing
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	
910.0	0.00	0.00	910.0	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	
1,033.0	0.00	0.00	1,033.0	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	
1,308.0	0.00	0.00	1,308.0	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	
1,706.0	0.00	0.00	1,706.0	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	
1,881.0	0.00	0.00	1,881.0	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	
2,580.0	0.00	0.00	2,580.0	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	
3,310.0	0.00	0.00	3,310.0	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	
4,169.0	0.00	0.00	4,169.0	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

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito 116-2409 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 6836.0ft
Project:	San Juan Co, NM	MD Reference:	KBE @ 6836.0ft
Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito 116-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	H2		
Design:	Plan #3		

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
4,374.0	0.00	0.00	4,374.0	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	
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	
4,827.0	0.00	0.00	4,827.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4827'
4,900.0	7.30	270.09	4,899.8	0.0	-4.6	4.6	10.00	10.00	
4,936.7	10.96	270.09	4,936.0	0.0	-10.5	10.5	10.00	10.00	Mancos Silt
5,000.0	17.30	270.09	4,997.4	0.0	-25.9	25.9	10.00	10.00	
5,100.0	27.30	270.09	5,089.8	0.1	-63.8	63.8	10.00	10.00	
5,199.7	37.27	270.09	5,174.0	0.2	-117.0	117.0	10.00	10.00	Gallup Fn
5,200.0	37.30	270.09	5,174.2	0.2	-117.2	117.2	10.00	10.00	
5,300.0	47.30	270.09	5,248.1	0.3	-184.4	184.4	10.00	10.00	
5,400.0	57.30	270.09	5,309.2	0.4	-263.4	263.4	10.00	10.00	
5,500.0	67.30	270.09	5,355.6	0.6	-351.8	351.8	10.00	10.00	7" Casing @ 72"
5,600.0	77.30	270.09	5,386.0	0.7	-447.0	447.0	10.00	10.00	
5,700.0	87.30	270.09	5,399.4	0.9	-545.9	545.9	10.00	10.00	
5,707.0	88.00	270.09	5,399.6	0.9	-552.9	552.9	10.00	10.00	
5,730.0	90.30	270.09	5,400.0	1.0	-576.0	576.0	10.00	10.00	Landing Pt @ 5730' MD, 90.3°
5,800.0	90.30	270.09	5,399.6	1.1	-645.9	645.9	0.00	0.00	
5,900.0	90.30	270.09	5,399.1	1.2	-745.9	745.9	0.00	0.00	
6,000.0	90.30	270.09	5,398.6	1.4	-845.9	845.9	0.00	0.00	
6,100.0	90.30	270.09	5,398.0	1.6	-945.9	945.9	0.00	0.00	
6,200.0	90.30	270.09	5,397.5	1.7	-1,045.9	1,045.9	0.00	0.00	
6,300.0	90.30	270.09	5,397.0	1.9	-1,145.9	1,145.9	0.00	0.00	
6,400.0	90.30	270.09	5,396.5	2.1	-1,245.9	1,245.9	0.00	0.00	
6,500.0	90.30	270.09	5,396.0	2.2	-1,345.9	1,345.9	0.00	0.00	
6,600.0	90.30	270.09	5,395.4	2.4	-1,445.9	1,445.9	0.00	0.00	
6,700.0	90.30	270.09	5,394.9	2.6	-1,545.9	1,545.9	0.00	0.00	
6,800.0	90.30	270.09	5,394.4	2.7	-1,645.9	1,645.9	0.00	0.00	
6,900.0	90.30	270.09	5,393.9	2.9	-1,745.9	1,745.9	0.00	0.00	
7,000.0	90.30	270.09	5,393.3	3.1	-1,845.9	1,845.9	0.00	0.00	
7,100.0	90.30	270.09	5,392.8	3.2	-1,945.9	1,945.9	0.00	0.00	
7,200.0	90.30	270.09	5,392.3	3.4	-2,045.9	2,045.9	0.00	0.00	
7,300.0	90.30	270.09	5,391.8	3.5	-2,145.9	2,145.9	0.00	0.00	
7,400.0	90.30	270.09	5,391.2	3.7	-2,245.9	2,245.9	0.00	0.00	
7,500.0	90.30	270.09	5,390.7	3.9	-2,345.9	2,345.9	0.00	0.00	
7,600.0	90.30	270.09	5,390.2	4.0	-2,445.9	2,445.9	0.00	0.00	
7,700.0	90.30	270.09	5,389.7	4.2	-2,545.9	2,545.9	0.00	0.00	
7,800.0	90.30	270.09	5,389.1	4.4	-2,645.9	2,645.9	0.00	0.00	
7,900.0	90.30	270.09	5,388.6	4.5	-2,745.9	2,745.9	0.00	0.00	
8,000.0	90.30	270.09	5,388.1	4.7	-2,845.9	2,845.9	0.00	0.00	
8,100.0	90.30	270.09	5,387.6	4.9	-2,945.9	2,945.9	0.00	0.00	
8,200.0	90.30	270.09	5,387.1	5.0	-3,045.9	3,045.9	0.00	0.00	
8,300.0	90.30	270.09	5,386.5	5.2	-3,145.9	3,145.9	0.00	0.00	
8,400.0	90.30	270.09	5,386.0	5.4	-3,245.9	3,245.9	0.00	0.00	
8,500.0	90.30	270.09	5,385.5	5.5	-3,345.9	3,345.9	0.00	0.00	
8,600.0	90.30	270.09	5,385.0	5.7	-3,445.9	3,445.9	0.00	0.00	
8,700.0	90.30	270.09	5,384.4	5.9	-3,545.9	3,545.9	0.00	0.00	
8,800.0	90.30	270.09	5,383.9	6.0	-3,645.9	3,645.9	0.00	0.00	
8,900.0	90.30	270.09	5,383.4	6.2	-3,745.9	3,745.9	0.00	0.00	

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:	KBE @ 6836.0ft
Project:	San Juan Co, NM	MD Reference:	KBE @ 6836 0ft
Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito I16-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	H2		
Design:	Plan #3		

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
9,000.0	90.30	270.09	5,382.9	6.4	-3,845.9	3,845.9	0.00	0.00	
9,100.0	90.30	270.09	5,382.3	6.5	-3,945.9	3,945.9	0.00	0.00	
9,200.0	90.30	270.09	5,381.8	6.7	-4,045.9	4,045.9	0.00	0.00	
9,300.0	90.30	270.09	5,381.3	6.9	-4,145.9	4,145.9	0.00	0.00	
9,400.0	90.30	270.09	5,380.8	7.0	-4,245.9	4,245.9	0.00	0.00	
9,500.0	90.30	270.09	5,380.2	7.2	-4,345.9	4,345.9	0.00	0.00	
9,600.0	90.30	270.09	5,379.7	7.4	-4,445.9	4,445.9	0.00	0.00	
9,700.0	90.30	270.09	5,379.2	7.5	-4,545.9	4,545.9	0.00	0.00	
9,785.5	90.30	270.09	5,378.7	7.7	-4,631.3	4,631.4	0.00	0.00	TD at 9785.5 - Escrito I16-2409 01H PBHL (8.9.

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 I16-2409 01H PE	0.00	0.00	5,378.7	7.7	-4,631.3	1,933,211.91	2,732,204.64	36.312930	-107.802420
- plan hits target center									
- Polygon									
Point 1			5,378.7	500.0	-330.0	1,933,711.76	2,731,874.40		
Point 2			5,378.7	-500.0	-330.0	1,932,711.76	2,731,874.89		

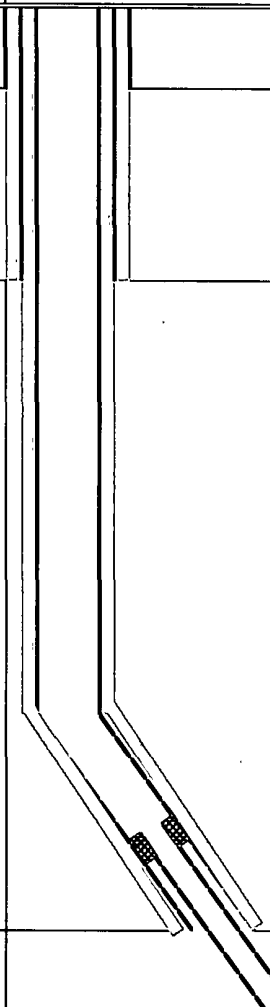
Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
5,707.0	5,399.6	7" Casing @ 88°	0.000	0.000
500.0	500.0	9 5/8" Casing	0.000	0.000

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
910.0	910.0	Ojo Alamo Ss		0.00	270.09
1,033.0	1,033.0	Kirtland Shale		0.00	270.09
1,308.0	1,308.0	Fruitland Coal		0.00	270.09
1,706.0	1,706.0	Pictured Cliffs Ss.		0.00	270.09
1,881.0	1,881.0	Lewis Shale		0.00	270.09
2,580.0	2,580.0	Cliffhouse Ss.		0.00	270.09
3,310.0	3,310.0	Menefee Fn.		0.00	270.09
4,169.0	4,169.0	Point Lookout Ss.		0.00	270.09
4,374.0	4,374.0	Mancos Shale		0.00	270.09
4,936.7	4,936.0	Mancos Silt		0.00	270.09
5,199.7	5,174.0	Gallup Fn.		0.00	270.09

Planning Report

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Project:	San Juan Co, NM	MD Reference:	KBE @ 6836 0ft
Site:	S16-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito I16-2409 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,827.0	4,827.0	0.0	0.0	KOP @ 4827'
5,730.0	5,400.0	1.0	-576.0	Landing Pt @ 5730' MD, 90.3°
9,785.5	5,378.7	7.7	-4,631.3	TD at 9785.5

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: 6834		9/6/12	
MWD LWD	OPEN HOLE LOGGING	FORM	DEPTH TVDMD			HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION		
			60	60'		30	20" 94# 100sx Type I Neat 48.8ppg cmt	Fresh wtr 8 3-9 2			
Surveys After csg is run	None					12 1/4	9 5/8" 36ppf J55 STC TOC @ surface	Fresh wtr 8 4-8 6	Vertical <1°		
Surveys every 500'	No OH logs 										