

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions
listed below are made in accordance with OCD Rule 19.15.7.11
and are in addition to the actions approved by BLM on the
following 3160-3 APD form.

Operator Signature Date: 4.30.14

Well information;

Operator Encina, Well Name and Number Escrito L17-2409 #3H

API# 30045-35545 Section 17, Township 24^NS, Range 9^EW

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
- ☒ Hold C-104 for directional survey & "As Drilled" Plat
- ☐ Hold C-104 for NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☐ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☐ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

Chuck Lera
NMOCD Approved by Signature

5-30-2014
Date

25

Form 3160-3
(August 2007)

MAY 16 2014

MAY 02 2014

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Farmington Field Office

Bureau of Land Management

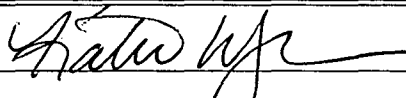
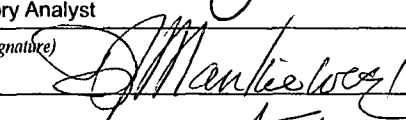
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM 36473 & NM 45208	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator Encana Oil & Gas (USA) Inc.		7. If Unit or CA Agreement, Name and No. Pending	
3a. Address 370 17th Street, Suite 1700 Denver, CO 80202		8. Lease Name and Well No. Escrito L17-2409 03H	
3b. Phone No. (include area code) 720-876-3533		9. API Well No. Pending 30-045-35545	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1754' FSL and 328' FWL Section 17, T24N, R9W NWSW At proposed prod. zone 2200' FSL and 330' FEL Section 17, T24N, R9W NESE		10. Field and Pool, or Exploratory Bisti Lower-Gallup	
14. Distance in miles and direction from nearest town or post office* +/- 33.9 miles southeast of the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM		11. Sec., T. R. M. or Blk. and Survey or Area Section 17, T24N, R9W NMPM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) BHL is 330' from east lease line		12. County or Parish San Juan	
16. No. of acres in lease NM 45208 - 320 acres NM 36473 - 320 acres		13. State NM	
17. Spacing Unit dedicated to this well 160.0 acres - N/2 S/2 Section 17			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Escrito L17-2409 02H is +/-30' north of SHL		19. Proposed Depth 5,412' TVD/9,831' MD	
20. BLM/BIA Bond No. on file COB-000235			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6792' GL, 6808' KB		22. Approximate date work will start* 07/30/2014	
23. Estimated duration 20 days			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed/Typed) Katie Wegner	Date 4/30/14
Title Regulatory Analyst		
Approved by (Signature) 	Name (Printed/Typed) M. Mantel	Date 5/14/14
Title AFM		
Office FFO		

Application approval 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.

BLM'S APPROVAL OR ACCEPTANCE OF THIS

Conditions of approval, if any, are attached. ACTION DOES NOT RELIEVE THE LESSEE AND

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 the jurisdiction of such department or agency.

ON FEDERAL AND INDIAN LANDS

(Continued on page 2)
DRILLING OPERATIONS
AUTHORIZED ARE SUBJECT TO
COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

NMOCDA

*(Instructions on page 2)

This action is subject to technical
and procedural review pursuant to
43 CFR 3165.3 and appeal
pursuant to 43 CFR 3165.4

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 533-6161 Fax: (505) 533-0720

DISTRICT II
511 S. First St., Artesia, N.M. 88210
Phone: (505) 745-1223 Fax: (505) 745-0730

DISTRICT III
1000 Rio Bravo Rd., Aztec, N.M. 87410
Phone: (505) 834-6178 Fax: (505) 834-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-8460 Fax: (505) 478-8462

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION MAY 02 2014

1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
District Office

Farmington Field Office
Bureau of Land Management

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35545		*Pool Code 5890	*Pool Name BISTI LOWER-GALLUP
*Property Code 40267	*Property Name ESCRITO L17-2409		*Well Number 03H
*GRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.		*Elevation 6791.8'

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
L	17	24N	9W		1754'	SOUTH	328'	WEST	SAN JUAN

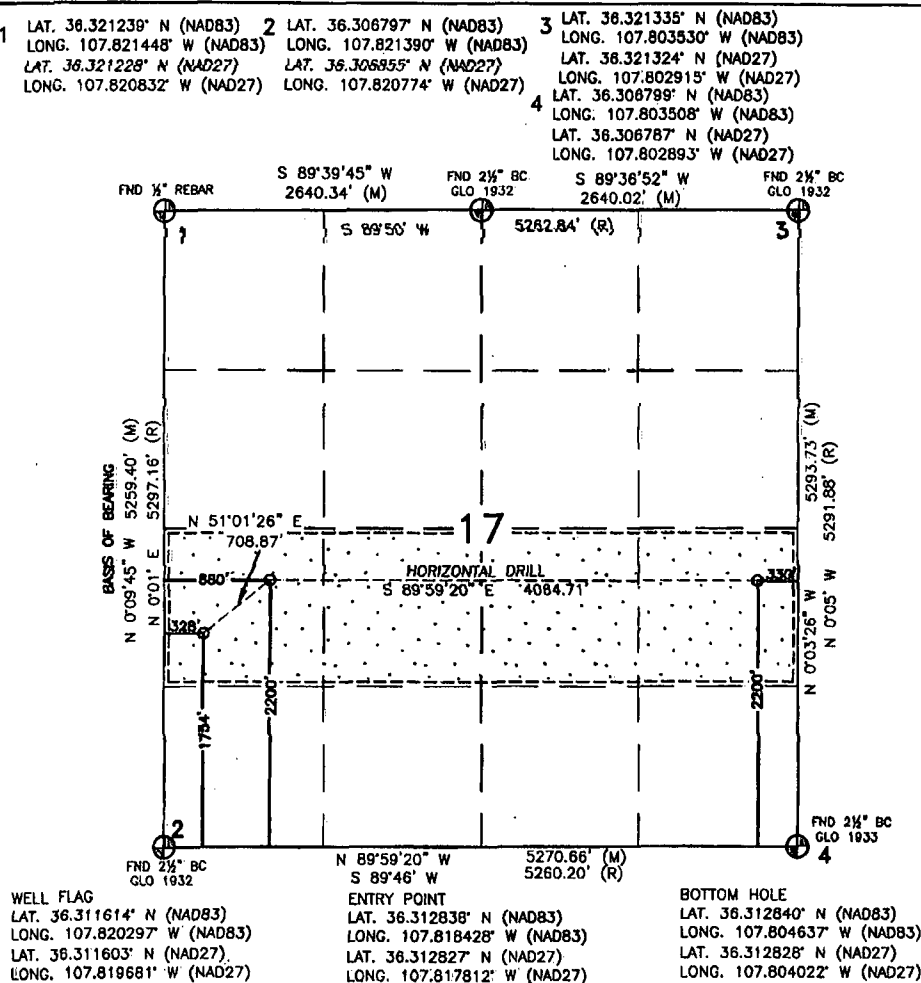
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	17	24N	9W		2200'	SOUTH	330'	EAST	SAN JUAN

*Dedicated Acres 160.00 ACRES N/2 S/2 SEC. 17	PROJECT AREA	*Joint or Infill	*Consolidation Code	*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 04/29/14
Signature Date

Katie Wegner

Printed Name

katie.wegner@encana.com

E-mail Address

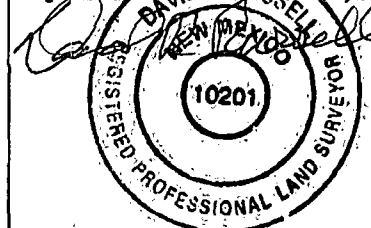
SURVEYOR CERTIFICATION

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 17, 2013

Date of Survey

Signature and Seal of Professional Surveyor



DAVID RUSSELL

Certificate Number

10201

Escrito L17-2409 03H
SHL: NWSW 17 24N 9W
1754 FSL 328 FWL
BHL: NESE 17 24N 9W
2200 FSL 330 FEL
San Juan, New Mexico

**Encana Oil & Gas (USA) Inc.
Drilling Plan**

1. ESTIMATED TOPS OF GEOLOGICAL MARKERS (TVD)

The estimated tops of important geologic markers are as follows:

Formation	Depth (TVD) units = feet
Ojo Alamo Ss.	803
Kirtland Shale	988
Fruitland Coal	1,228
Pictured Cliffs Ss.	1,613
Lewis Shale	1,778
Cliffhouse Ss.	2,413
Menefee Fn.	3,173
Point Lookout Ss.	4,063
Mancos Shale	4,263
Mancos Silt	4,848
Gallup Fn.	5,078

The referenced surface elevation is 6792', KB 6808'

2. ESTIMATED DEPTH OF POTENTIAL WATER, OIL, GAS, & OTHER MINERAL BEARING FORMATIONS

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,228
Oil/Gas	Pictured Cliffs Ss.	1,613
Oil/Gas	Cliffhouse Ss.	2,413
Gas	Menefee Fn.	3,173
Oil/Gas	Point Lookout Ss.	4,063
Oil/Gas	Mancos Shale	4,263
Oil/Gas	Mancos Silt	4,848
Oil/Gas	Gallup Fn.	5,078

All shows of fresh water and minerals will be reported and protected.

3. PRESSURE CONTROL

- a) Pressure control equipment and configuration will be designed to meet 2M standards.
- b) Working pressure on rams and BOPE will be 3,000 psi.
- c) Function test and visual inspection of the BOP will be conducted daily and noted in the IADC Daily Drilling Report.
- d) The Annular BOP will be pressure tested to a minimum of 50 percent of its rated working pressure.
- e) Blind and Pipe Rams/BOP will be tested against a test plug to 100 percent of rated working pressure.
- f) Pressure tests are required before drilling out from under all casing strings set and cemented in place.

Escrito L17-2409 03H
 SHL: NWSW 17 24N 9W
 1754 FSL 328 FWL
 BHL: NESE 17 24N 9W
 2200 FSL 330 FEL
 San Juan, New Mexico

- g) BOP controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned.
- h) BOP testing procedures and testing frequency will conform to Onshore Order No. 2.
- i) BOP remote controls shall be located on the rig floor at a location readily accessible to the driller. Master controls shall be on the ground at the accumulator and shall have the capability to function all preventers.
- j) The kill line shall be 2-inch minimum and contain two kill line valves, one of which shall be a check valve.
- k) The choke line shall be a 2-inch minimum and contain two choke line valves (2-inch minimum).
- l) The choke and manifold shall contain two adjustable chokes.
- m) Hand wheels shall be installed on all ram preventers.
- n) Safety valves and wrenches (with subs for drill string connections) shall be available on the rig floor at all
- o) Inside BOP or float sub shall also be available on the rig floor at all times.

Proposed BOP and choke manifold arrangements are attached.

4. CASING & CEMENTING PROGRAM

The proposed casing and cementing program has been designed to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. All indications of useable water shall be reported.

- a) The proposed casing design is as follows:

Casing	Depth (MD)	Hole Size	Csg Size	Weight	Grade
Conductor	0'-120'	26"	16"	42#	
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5597'	8 3/4"	7"	26#	J55, LTC New
Production Liner	5397'-9831'	6 1/8"	4 1/2"	11.6#	B80*, LTC New

Casing String				Casing Strength Properties			Minimum Design Factors		
Size	Weight (ppf)	Grade	Connection	Collapse (psi)	Burst (psi)	Tensile (1000lbs)	Collapse	Burst	Tension
9 5/8"	36	J55	STC	2020	3520	394	1.125	1.1	1.5
7"	26	J55	LTC	4320	4980	367	1.125	1.1	1.5
4.5"	11.6	B80	LTC	6350	7780	201	1.125	1.1	1.5

*B80 pipe specifications are attached

Casing design is subject to revision based on geologic conditions encountered

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1,500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

Escrito L17-2409 03H
 SHL: NWSW 17 24N 9W
 1754 FSL 328 FWL
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 2200 FSL 330 FEL
 San Juan, New Mexico

b) The proposed cementing program is as follows

Casing	Depth (MD)	Cement Volume (sacks)	Cement Type & Yield	Designed TOC	Centralizers
Conductor	0'-120'	200 sks	Type I Neat 16 ppg	Surface	None
Surface	0'-500'	201 sks	Type III Cement + 1% CaCl + 0.25lb/sk Cello Flake + 0.2% FL, 16ppg, 1.38cuf/sk	Surface	1 per joint on bottom 3 joints
Intermediate	0'-5597'	30% open hole excess Stage 1 Lead: 325 sks Stage 1 Tail: 348 sks Stage 2 Lead: 161 sks	Lead (Stages 1 and 2): PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuf/sk Tail (Stage 1): Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuf/sk	Surface	1 every 3 joints through water bearing zones
Production Liner	5397'-9831'	None - External Casing Packers	N/A	N/A	N/A

*Production liner clarification: Utilizing external swell casing packer system for zonal isolation will not use cement in the production liner

Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and New Mexico Oil Conservation Division requirements. Slurries used will be the slurries listed above or equivalent slurries depending on service provider selected. Cement yields may change depending on slurries selected

All waiting on cement times shall be a minimum of 8 hours or adequate to achieve minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. WELL PLAN & DIRECTIONAL DRILLING PROGRAM

The proposed horizontal well will have a kick off point of 3500'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	5412'/9831'	Gallup

6. DRILLING FLUIDS PROGRAM

a) Surface through Intermediate Casing Point:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
30"	0-60'/60'	Fresh Water	8.3-9.0	38-100	4-28
12 1/4"	0'-500'/500'	Fresh Water	8.3-10.0	60-70	NC
8 3/4"	500'/500'-5359'/5597'	Fresh Water LSND	8.3-10.0	40-50	8-10

Escrito L17-2409 03H
SHL: NWSW 17 24N 9W
1754 FSL 328 FWL
BHL: NESE 17 24N 9W
2200 FSL 330 FEL
San Juan, New Mexico

b) Intermediate Casing Point to TD:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
6 1/8"	5359'/5597'- 5412'/9831'	Fresh Water LSND	8.3-10.0	15-25	<15

- c) There will be sufficient mud on location to control a blowout should one occur. Mud flow and volume will be monitored both visually and with electronic pit volume totalizers. Mud tests shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.
- ✓d) A closed-loop system will be used to recover drilling fluid and dry cuttings in both phases of the well and on all hole intervals, including fresh water and oil-based operations. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. A frac tank will be on location to store fresh water. Waste will be disposed of properly at an EPA-approved hazardous waste facility. Fresh water cuttings will be disposed of at Basin Disposal, Inc. and/or Industrial Ecosystems, Inc. The location will be lined in accordance with the Surface Use Plan of Operations.

7. TESTING, CORING, & LOGGING

- a) Drill Stem Testing - None anticipated.
b) Coring - None anticipated.
c) Mudd Logging - Mud loggers will be on location from kick off point to TD.
d) Logging - See below

Cased Hole:

CBL/CCL/GR/VDL will be run as needed for perforating control

8. ABNORMAL PRESSURES & HYDROGEN SULFIDE

The anticipated bottom hole pressure is +/- 2518 psi based on a 9.0 ppg at 5380' TVD of the horizontal lateral target. No abnormal pressure or temperatures are anticipated.

No hydrogen sulfide gas is anticipated, however, if H₂S is encountered, the guidelines in Onshore Order No. 6 will be followed.

9. ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence on July 30, 2014. It is anticipated that completion operations will begin within 30 days after the well has been drilled depending on fracture treatment schedules with various pumping service companies.

It is anticipated that the drilling of this well will take approximately 20 days.

LOC: NW/4 SW/4 17 24N 9W 2200 FSL 880 FWL			Encana Natural Gas				ENG: S Kuykendall 4/30/14		
County: San Juan			WELL SUMMARY				RIG: Aztec 950		
WELL: Escrito L17-2409 03H							GLE: 6791.8		
							RKBE: 6807.8		
MWD	OPEN HOLE	FORM	DEPTH			HOLE	CASING	MW	DEVIATION
LWD	LOGGING		TVD	MD					
			120'	120'		26	16" 42# 200sx 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	Nacimiento 9 5/8" Csg	0 500	500.00		12 1/4	9 5/8" 36ppf J55 STC TOC Surface - 201 sks of Type III Cement	Fresh wtr 8.3-10	Vertical <1°
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 Fruitland Coal Pictured Cliffs Ss. Lewis Shale Cliffhouse Ss. Menefee Fn. Point Lookout Ss. Mancos Shale	803 988 1,228 1,613 1,778 2,413 3,173 4,063 4,263		Stage tool @ ~ 1,828	8 3/4	7" 26ppf J55 LTC TOC @ surface 30% OH excess: 673 sksTotal. Stage 1 Lead: 325 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: 348 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. 161 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°
Surveys every 30' through the curve	Mud logger on site	KOP Mancos Silt Gallup Fn. 7" Csg	3,500 4,848 5,078 5,359	3,500 5,597'					
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	Horizontal Target TD Base Gallup	5,380 5,412 5,440	9,831		6 1/8	200' overlap at liner top 4233' Drilled Lateral	Horizontal Inclination Horizontal TVD 8.3-10.0 WBM	Horz Inc/TVD /89.6- TD = 9830.6 MD
MWD Gamma Directional							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		

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 3500', 8 3/4 inch holesize
- 5) PU directional tools and start curve at 10deg/100' build rate
- 6) Drill to csg point of 5597' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at ~90 deg, drill lateral to 9831' run 4 1/2 inch liner with external swellable csg packers

ENCANA OIL & GAS (USA) INC.
ESCRITO L17-2409 #03H
1754' FSL & 328' FWL
LOCATED IN THE NW/4 SW/4 OF SECTION 17,
T24N, R9W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF US HWY 550 & US HWY 64, TRAVEL SOUTH FOR 28.2 MILES TO HWY 57 (BLANCO TRADING POST, MP 123.4).
- 2) TURN RIGHT ONTO HWY 57 AND GO 2.3 MILES TO DIRT ROAD.
- 3) TURN LEFT ONTO DIRT ROAD AND GO 1.4 MILES TO PIPELINE CORRIDOR WHERE UPGRADED ACCESS ROAD BEGINS.

WELL FLAG LOCATED AT LAT. 36.311614° N, LONG. 107.820297° W (NAD 83).

JOB No.: ENC231
DATE: 03/27/14

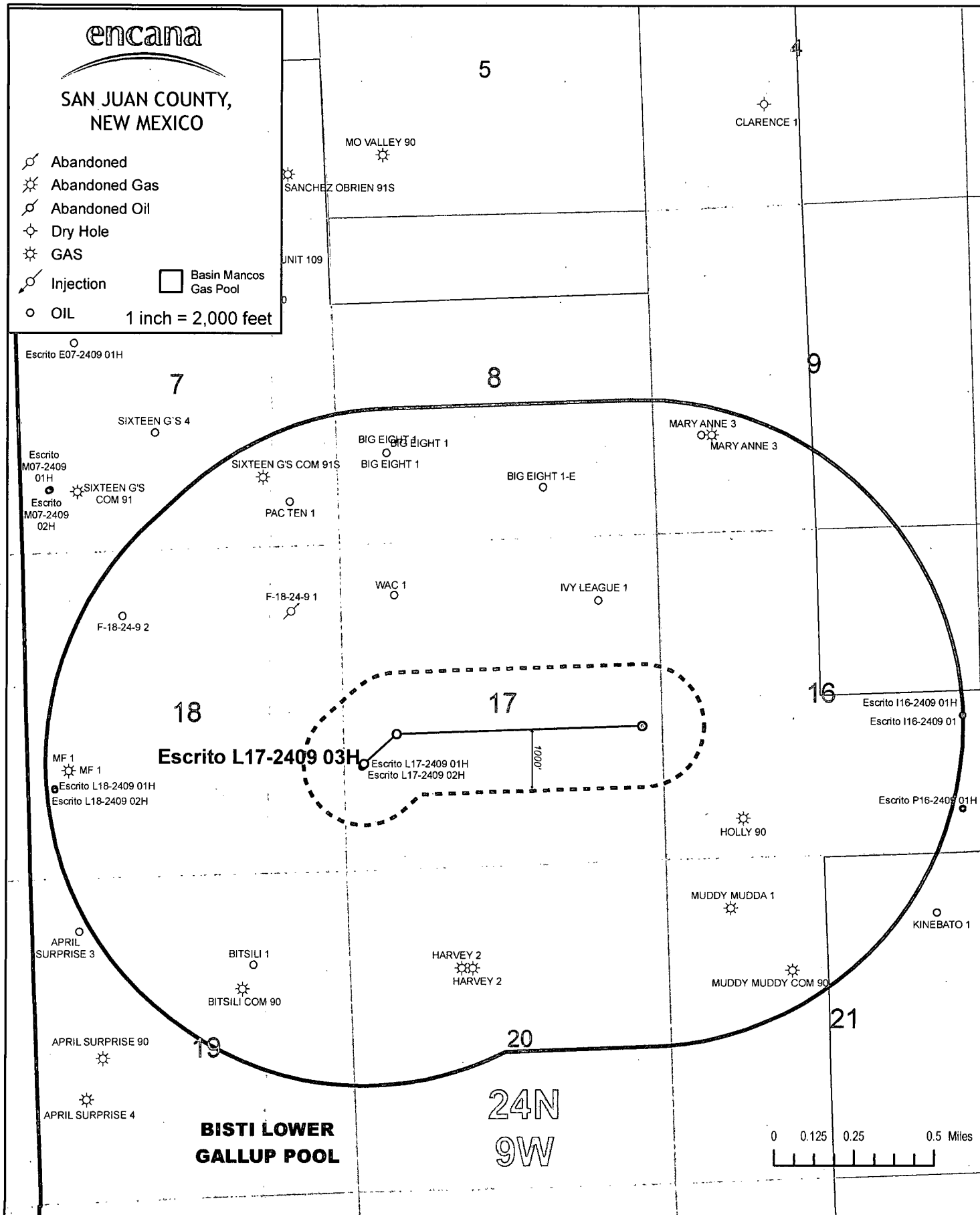


Scorpion Survey & Consulting, L.L.C.
302 S. Ash
Aztec, New Mexico 87410
(505) 334-4007

encana

SAN JUAN COUNTY,
NEW MEXICO

- ⊗ Abandoned
 - ⊗ Abandoned Gas
 - ⊗ Abandoned Oil
 - ⊗ Dry Hole
 - ⊗ GAS
 - ⊗ Injection
 - Basin Mancos Gas Pool
 - OIL
- 1 inch = 2,000 feet





Boomerang Tube LLC

CASING (OR) TUBING DESCRIPTION AND PERFORMANCE PROPERTIES

Pipe Outside Diameter (ins)	_____	4.500
Pipe Wall Thickness (ins)	_____	0.250
Nominal Weight Per Foot (lbs)	_____	11.60
Thread Name	_____	Long Thread CSG
Grade Name	_____	SB-80
Pipe Minimum Yield (psi)	_____	80,000
Pipe Minimum Ultimate (psi)	_____	90,000
Coupling Minimum Yield (psi)	_____	80,000
Coupling Minimum Ultimate (psi)	_____	100,000
Coupling or Joint Outside Diameter (ins)	_____	5.000
Drift Diameter (ins)	_____	3.875
Plain End Weight per Foot (lbs)	_____	11.36
Joint Strength (lbs)	_____	201,000
Internal Yield (psi)	_____	7,780
Collapse Rating (psi)	_____	6,350

MAXIMUM DEPTH/LENGTH BASED ON MUD WTS & SAFETY FACTORS

Drilling Mud Weight (ppg)	_____	9.625
Tension Safety Factor	_____	1.80
Maximum Tension Length (ft)	_____	9,630
Internal Yield Safety Factor	_____	1.10
Maximum Depth for Internal Yield (ft)	_____	14,150
Collapse Safety Factor	_____	1.125
Maximum Collapse Depth (ft)	_____	11,290

API RELATED VALUES and INTERMEDIATE CALCULATION RESULTS

Coupling Thread Fracture Strength	_____	464,000
Pipe Thread Fracture Strength (lbs)	_____	201,000
Pipe Body Plain End Yield (lbs)	_____	267,000
Round Thread Pull-Out (lbs)	_____	219,000
Minimum Make-up Torque (ft-lbs)	_____	1,640
Nominal Make-up Torque (ft-lbs)	_____	2,190
Maximum Make-up Torque (ft-lbs)	_____	2,740
Coupling Internal Yield (psi)	_____	10,660
Pipe Body Internal Yield (psi)	_____	7,780
Leak @ E1 or E7 plane (psi)	_____	17,920
Pipe Hydrostatic Test Pressure @ 80 % SMYS	_____	7,100

encana

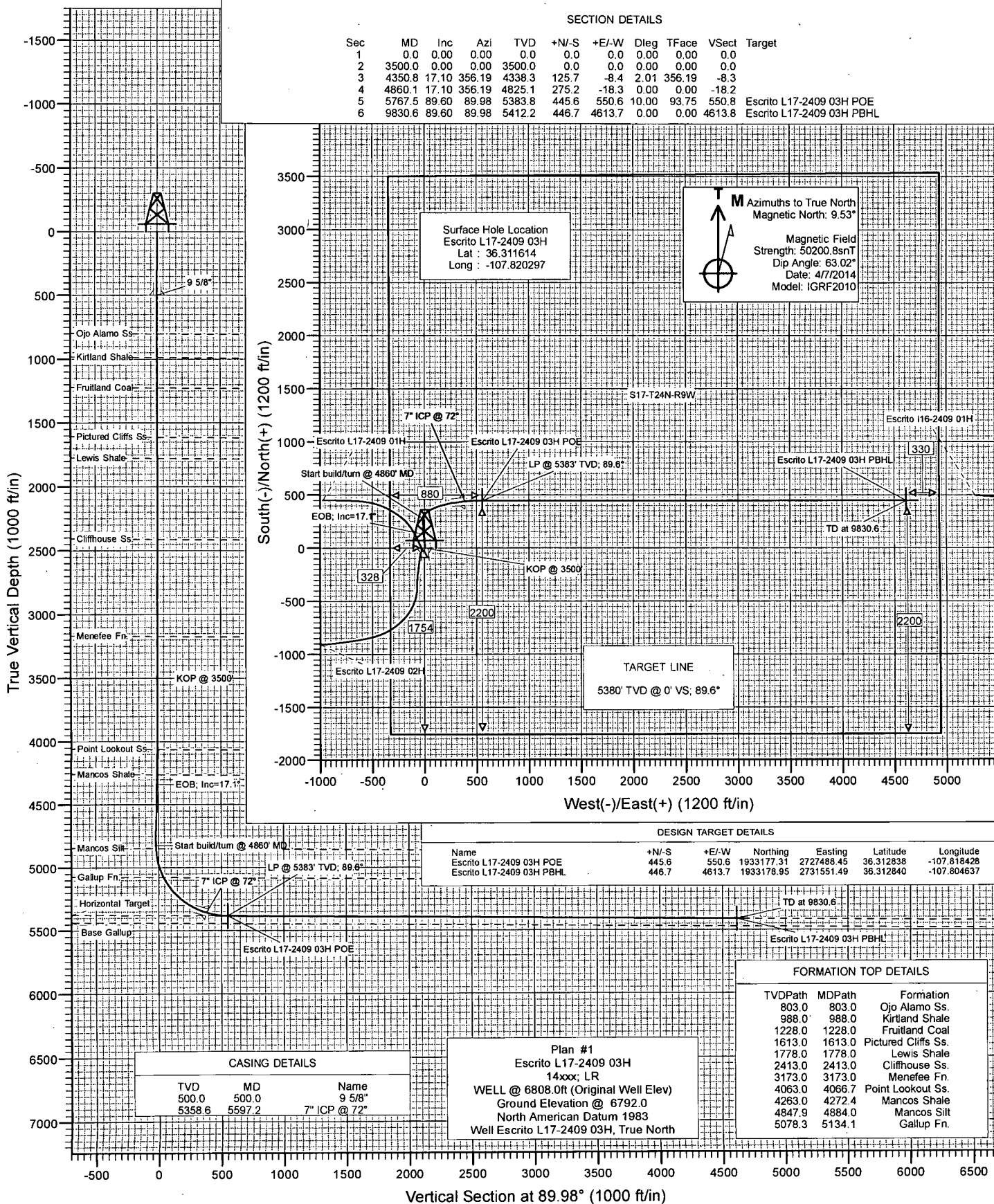
natural gas

Project: San Juan County, NM
Site: S17-T24N-R9W (Escrito)
Well: Escrito L17-2409 03H
Wellbore: Hz
Design: Plan #1



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	3500.0	0.00	0.00	3500.0	0.0	0.0	0.00	0.00	0.0	
3	4350.8	17.10	356.19	4338.3	125.7	-8.4	2.01	356.19	-8.3	
4	4860.1	17.10	356.19	4825.1	275.2	-18.3	0.00	0.00	-18.2	
5	5767.5	89.60	89.98	5383.8	445.6	550.6	10.00	93.75	550.8	Escrito L17-2409 03H POE
6	9830.6	89.60	89.98	5412.2	446.7	4613.7	0.00	0.00	4613.8	Escrito L17-2409 03H PBHL



Vertical Section at 89.98° (1000 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site:	S17-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito L17-2409 03H	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	S17-T24N-R9W (Escrito)				
Site Position:		Northing:	1,932,707.27 ft	Latitude:	36.311547
From:	Lat/Long	Easting:	2,726,920.20 ft	Longitude:	-107.820357
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.01 °

Well	Escrito L17-2409 03H					
Well Position	+N/-S	0.0 ft	Northing:	1,932,731.66 ft	Latitude:	36.311614
	+E/-W	0.0 ft	Easting:	2,726,937.88 ft	Longitude:	-107.820297
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,792.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/7/2014	9.53	63.02	50,201

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	89.98	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,350.8	17.10	356.19	4,338.3	125.7	-8.4	2.01	2.01	0.00	356.19	
4,860.1	17.10	356.19	4,825.1	275.2	-18.3	0.00	0.00	0.00	0.00	
5,767.5	89.60	89.98	5,383.8	445.6	550.6	10.00	7.99	10.34	93.75	Escrito L17-2409 03H
9,830.6	89.60	89.98	5,412.2	446.7	4,613.7	0.00	0.00	0.00	0.00	Escrito L17-2409 03H

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site:	S17-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito L17-2409 03H	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	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	
803.0	0.00	0.00	803.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
988.0	0.00	0.00	988.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
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	
1,228.0	0.00	0.00	1,228.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	
1,613.0	0.00	0.00	1,613.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,778.0	0.00	0.00	1,778.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
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	
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	
2,413.0	0.00	0.00	2,413.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
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	
2,700.0	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	
3,173.0	0.00	0.00	3,173.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
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	KOP @ 3500'
3,600.0	2.01	356.19	3,600.0	1.7	-0.1	-0.1	2.01	2.01	
3,700.0	4.02	356.19	3,699.8	7.0	-0.5	-0.5	2.01	2.01	
3,800.0	6.03	356.19	3,799.4	15.7	-1.0	-1.0	2.01	2.01	
3,900.0	8.04	356.19	3,898.7	28.0	-1.9	-1.9	2.01	2.01	
4,000.0	10.05	356.19	3,997.4	43.6	-2.9	-2.9	2.01	2.01	
4,066.7	11.39	356.19	4,063.0	56.0	-3.7	-3.7	2.01	2.01	Point Lookout Ss.
4,100.0	12.06	356.19	4,095.6	62.8	-4.2	-4.2	2.01	2.01	
4,200.0	14.07	356.19	4,193.0	85.3	-5.7	-5.7	2.01	2.01	
4,272.4	15.52	356.19	4,263.0	103.8	-6.9	-6.9	2.01	2.01	Mancos Shale

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site:	S17-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito L17-2409 03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	H2		
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
4,300.0	16.08	356.19	4,289.5	111.3	-7.4	-7.4	2.01	2.01	
4,350.8	17.10	356.19	4,338.3	125.7	-8.4	-8.3	2.01	2.01	EOB; Inc=17.1°
4,400.0	17.10	356.19	4,385.3	140.2	-9.3	-9.3	0.00	0.00	
4,500.0	17.10	356.19	4,480.8	169.5	-11.3	-11.2	0.00	0.00	
4,600.0	17.10	356.19	4,576.4	198.8	-13.3	-13.2	0.00	0.00	
4,700.0	17.10	356.19	4,672.0	228.2	-15.2	-15.1	0.00	0.00	
4,800.0	17.10	356.19	4,767.6	257.5	-17.2	-17.1	0.00	0.00	
4,860.1	17.10	356.19	4,825.1	275.2	-18.3	-18.2	0.00	0.00	Start build/turn @ 4860' MD
4,884.0	17.10	4.31	4,847.9	282.2	-18.3	-18.2	10.00	0.02	Mancos Silt
4,900.0	17.29	9.68	4,863.1	286.8	-17.7	-17.6	10.00	1.15	
5,000.0	21.23	37.93	4,957.7	315.9	-4.1	-4.0	10.00	3.95	
5,100.0	28.23	55.24	5,048.6	343.7	26.6	26.7	10.00	6.99	
5,134.1	30.97	59.35	5,078.3	352.8	40.8	40.9	10.00	8.04	Gallup Fn.
5,200.0	36.56	65.66	5,133.1	369.5	73.3	73.4	10.00	8.48	
5,300.0	45.49	72.55	5,208.5	392.5	134.6	134.7	10.00	8.93	
5,400.0	54.72	77.57	5,272.6	412.1	208.6	208.8	10.00	9.23	
5,500.0	64.12	81.54	5,323.4	427.5	293.2	293.3	10.00	9.40	
5,597.2	73.34	84.84	5,358.6	438.2	383.0	383.2	10.00	9.49	7" ICP @ 72°
5,600.0	73.61	84.93	5,359.4	438.4	385.7	385.9	10.00	9.52	
5,700.0	83.15	87.99	5,379.5	444.4	483.3	483.5	10.00	9.54	
5,767.5	89.60	89.98	5,383.8	445.6	550.6	550.8	10.00	9.56	LP @ 5383' TVD; 89.6° - Escrito L17-2409 03H
5,800.0	89.60	89.98	5,384.0	445.6	583.2	583.3	0.00	0.00	
5,900.0	89.60	89.98	5,384.7	445.6	683.2	683.3	0.00	0.00	
6,000.0	89.60	89.98	5,385.4	445.6	783.2	783.3	0.00	0.00	
6,100.0	89.60	89.98	5,386.1	445.7	883.2	883.3	0.00	0.00	
6,200.0	89.60	89.98	5,386.8	445.7	983.1	983.3	0.00	0.00	
6,300.0	89.60	89.98	5,387.5	445.7	1,083.1	1,083.3	0.00	0.00	
6,400.0	89.60	89.98	5,388.2	445.7	1,183.1	1,183.3	0.00	0.00	
6,500.0	89.60	89.98	5,388.9	445.8	1,283.1	1,283.3	0.00	0.00	
6,600.0	89.60	89.98	5,389.6	445.8	1,383.1	1,383.3	0.00	0.00	
6,700.0	89.60	89.98	5,390.3	445.8	1,483.1	1,483.3	0.00	0.00	
6,800.0	89.60	89.98	5,391.0	445.9	1,583.1	1,583.3	0.00	0.00	
6,900.0	89.60	89.98	5,391.7	445.9	1,683.1	1,683.3	0.00	0.00	
7,000.0	89.60	89.98	5,392.4	445.9	1,783.1	1,783.3	0.00	0.00	
7,100.0	89.60	89.98	5,393.1	445.9	1,883.1	1,883.3	0.00	0.00	
7,200.0	89.60	89.98	5,393.8	446.0	1,983.1	1,983.3	0.00	0.00	
7,300.0	89.60	89.98	5,394.5	446.0	2,083.1	2,083.3	0.00	0.00	
7,400.0	89.60	89.98	5,395.2	446.0	2,183.1	2,183.3	0.00	0.00	
7,500.0	89.60	89.98	5,395.9	446.0	2,283.1	2,283.3	0.00	0.00	
7,600.0	89.60	89.98	5,396.6	446.1	2,383.1	2,383.3	0.00	0.00	
7,700.0	89.60	89.98	5,397.3	446.1	2,483.1	2,483.3	0.00	0.00	
7,800.0	89.60	89.98	5,398.0	446.1	2,583.1	2,583.3	0.00	0.00	
7,900.0	89.60	89.98	5,398.7	446.2	2,683.1	2,683.3	0.00	0.00	
8,000.0	89.60	89.98	5,399.4	446.2	2,783.1	2,783.3	0.00	0.00	
8,100.0	89.60	89.98	5,400.1	446.2	2,883.1	2,883.3	0.00	0.00	
8,200.0	89.60	89.98	5,400.8	446.2	2,983.1	2,983.3	0.00	0.00	
8,300.0	89.60	89.98	5,401.5	446.3	3,083.1	3,083.3	0.00	0.00	
8,400.0	89.60	89.98	5,402.2	446.3	3,183.1	3,183.2	0.00	0.00	
8,500.0	89.60	89.98	5,402.9	446.3	3,283.1	3,283.2	0.00	0.00	
8,600.0	89.60	89.98	5,403.6	446.3	3,383.1	3,383.2	0.00	0.00	
8,700.0	89.60	89.98	5,404.3	446.4	3,483.1	3,483.2	0.00	0.00	
8,800.0	89.60	89.98	5,405.0	446.4	3,583.1	3,583.2	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users-DB	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site:	S17-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito L17-2409 03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	H2		
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
8,900.0	89.60	89.98	5,405.7	446.4	3,683.1	3,683.2	0.00	0.00	
9,000.0	89.60	89.98	5,406.4	446.4	3,783.1	3,783.2	0.00	0.00	
9,100.0	89.60	89.98	5,407.1	446.5	3,883.1	3,883.2	0.00	0.00	
9,200.0	89.60	89.98	5,407.8	446.5	3,983.1	3,983.2	0.00	0.00	
9,300.0	89.60	89.98	5,408.5	446.5	4,083.1	4,083.2	0.00	0.00	
9,400.0	89.60	89.98	5,409.2	446.6	4,183.1	4,183.2	0.00	0.00	
9,500.0	89.60	89.98	5,409.9	446.6	4,283.1	4,283.2	0.00	0.00	
9,600.0	89.60	89.98	5,410.6	446.6	4,383.1	4,383.2	0.00	0.00	
9,700.0	89.60	89.98	5,411.3	446.6	4,483.1	4,483.2	0.00	0.00	
9,800.0	89.60	89.98	5,412.0	446.7	4,583.1	4,583.2	0.00	0.00	
9,830.6	89.60	89.98	5,412.2	446.7	4,613.7	4,613.8	0.00	0.00	TD at 9830.6 - Escrito L17-2409 03H PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Escrito L17-2409 03H PI - hit/miss target - Shape - Point	0.00	0.00	5,383.8	445.6	550.6	1,933,177.31	2,727,488.45	36.312838	-107.818428
Escrito L17-2409 03H PI - plan hits target center - Point	0.00	0.00	5,412.2	446.7	4,613.7	1,933,178.95	2,731,551.49	36.312840	-107.804637

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	
5,597.2	5,358.6	7" ICP @ 72°	0.000	0.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
803.0	803.0	Ojo Alamo Ss.		0.40	89.98
988.0	988.0	Kirtland Shale		0.40	89.98
1,228.0	1,228.0	Fruitland Coal		0.40	89.98
1,613.0	1,613.0	Pictured Cliffs Ss.		0.40	89.98
1,778.0	1,778.0	Lewis Shale		0.40	89.98
2,413.0	2,413.0	Cliffhouse Ss.		0.40	89.98
3,173.0	3,173.0	Menefee Fn.		0.40	89.98
4,066.7	4,063.0	Point Lookout Ss.		0.40	89.98
4,272.4	4,263.0	Mancos Shale		0.40	89.98
4,884.0	4,848.0	Mancos Silt		0.40	89.98
5,134.1	5,078.0	Gallup Fn.		0.40	89.98

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site:	S17-T24N-R9W (Escrito)	North Reference:	True
Well:	Escrito L17-2409 03H	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)	
3,500.0	3,500.0	0.0	0.0	KOP @ 3500'
4,350.8	4,338.3	125.7	-8.4	EOB; Inc=17.1°
4,860.1	4,825.1	275.2	-18.3	Start build/turn @ 4860' MD
5,767.5	5,383.8	445.6	550.6	LP @ 5383' TVD; 89.6°
9,830.6	5,412.2	446.7	4,613.7	TD at 9830.6

EnCana Oil & Gas (USA) Inc

San Juan County, NM

S17-T24N-R9W (Escrito)

Escrito L17-2409 03H

Hz

Plan #1

Anticollision Report

07 April, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Reference Site:	S17-T24N-R9W (Escrito)	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Escrito L17-2409 03H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 4/7/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	9,830.6	Plan #1 (Hz)	Geolink MWD	Geolink MWD

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S16-T24N-R9W (Escrito)						
Escrito I16-2409 01H - Hz - FINAL						Out of range
S17-T24N-R9W (Escrito)						
Escrito L17-2409 01H - Hz - FINAL	1,986.5	1,986.7	27.0	20.1	3.927 CC	
Escrito L17-2409 01H - Hz - FINAL	2,000.0	2,000.1	27.0	20.1	3.901 ES	
Escrito L17-2409 01H - Hz - FINAL	3,503.9	3,504.2	35.0	22.8	2.873 SF	
Escrito L17-2409 02H - Hz - FINAL	908.3	908.3	55.6	52.5	17.843 CC	
Escrito L17-2409 02H - Hz - FINAL	2,600.0	2,600.0	60.2	51.1	6.669 ES	
Escrito L17-2409 02H - Hz - FINAL	3,500.0	3,499.7	66.0	53.9	5.429 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Reference Site:	S17-T24N-R9W (Escrito)	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Escrito L17-2409 03H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S17-T24N-R9W (Escrito) - Escrito L17-2409 01H - Hz - FINAL												Offset Site Error:	0.0 ft
Survey Program: 558-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	-144.07	-24.4	-17.7	30.1				
100.0	100.0	100.0	100.0	0.1	0.2	-144.24	-24.5	-17.6	30.1	29.8	0.32	95.077	
200.0	200.0	200.0	200.0	0.3	0.3	-144.76	-24.7	-17.4	30.2	29.5	0.66	45.624	
300.0	300.0	300.0	300.0	0.5	0.5	-145.63	-25.0	-17.1	30.3	29.3	1.01	30.099	
400.0	400.0	399.9	399.9	0.7	0.7	-146.83	-25.5	-16.7	30.5	29.1	1.35	22.537	
500.0	500.0	499.9	499.9	0.8	0.9	-148.35	-26.1	-16.1	30.7	29.0	1.70	18.089	
600.0	600.0	599.9	599.9	1.0	1.0	-150.13	-26.9	-15.4	31.0	29.0	2.04	15.180	
700.0	700.0	699.7	699.7	1.2	1.2	-151.98	-28.0	-14.9	31.7	29.3	2.39	13.259	
800.0	800.0	800.3	800.3	1.4	1.4	-154.52	-29.1	-13.9	32.2	29.5	2.74	11.738	
900.0	900.0	900.5	900.5	1.5	1.6	-155.66	-28.1	-12.7	30.8	27.7	3.09	9.961	
1,000.0	1,000.0	1,000.2	1,000.2	1.7	1.7	-155.31	-26.9	-12.4	29.6	26.2	3.44	8.617	
1,100.0	1,100.0	1,100.1	1,100.1	1.9	1.9	-153.06	-26.2	-13.3	29.4	25.6	3.79	7.752	
1,133.3	1,133.3	1,133.4	1,133.3	2.0	2.0	-152.26	-25.9	-13.6	29.3	25.4	3.90	7.509	
1,200.0	1,200.0	1,199.9	1,199.9	2.1	2.1	-150.53	-25.7	-14.5	29.5	25.4	4.13	7.137	
1,300.0	1,300.0	1,299.6	1,299.5	2.2	2.2	-148.02	-25.9	-16.2	30.6	26.1	4.48	6.820	
1,400.0	1,400.0	1,400.3	1,400.2	2.4	2.4	-146.79	-26.4	-17.3	31.6	26.7	4.83	6.529	
1,500.0	1,500.0	1,500.6	1,500.5	2.6	2.6	-147.11	-25.3	-16.3	30.1	24.9	5.18	5.808	
1,600.0	1,600.0	1,600.4	1,600.3	2.8	2.8	-147.31	-24.3	-15.6	28.8	23.3	5.53	5.214	
1,700.0	1,700.0	1,700.3	1,700.2	2.9	2.9	-147.49	-23.6	-15.0	28.0	22.1	5.88	4.758	
1,800.0	1,800.0	1,800.2	1,800.1	3.1	3.1	-147.83	-23.1	-14.5	27.3	21.1	6.23	4.384	
1,900.0	1,900.0	1,800.1	1,900.0	3.3	3.3	-147.48	-22.8	-14.6	27.1	20.5	6.58	4.117	
1,986.5	1,986.5	1,986.7	1,986.6	3.4	3.4	-147.88	-22.9	-14.4	27.0	20.1	6.88	3.927 CC	
2,000.0	2,000.0	2,000.1	2,000.0	3.5	3.5	-147.91	-22.9	-14.4	27.0	20.1	6.93	3.901 ES	
2,100.0	2,100.0	2,099.9	2,099.8	3.6	3.6	-147.13	-23.2	-15.0	27.7	20.4	7.27	3.804	
2,200.0	2,200.0	2,199.9	2,199.8	3.8	3.8	-146.08	-23.6	-15.9	28.5	20.8	7.62	3.734	
2,300.0	2,300.0	2,299.8	2,299.7	4.0	4.0	-144.32	-23.9	-17.1	29.4	21.4	7.97	3.685	
2,400.0	2,400.0	2,399.8	2,399.7	4.2	4.2	-142.14	-23.9	-18.6	30.3	22.0	8.32	3.645	
2,500.0	2,500.0	2,499.8	2,499.6	4.3	4.3	-140.54	-24.3	-20.0	31.4	22.8	8.67	3.626	
2,600.0	2,600.0	2,599.6	2,599.4	4.5	4.5	-138.23	-24.5	-21.9	32.9	23.8	9.02	3.642	
2,700.0	2,700.0	2,699.6	2,699.4	4.7	4.7	-135.93	-24.9	-24.1	34.7	25.3	9.37	3.703	
2,800.0	2,800.0	2,799.9	2,799.7	4.9	4.9	-135.48	-25.5	-25.1	35.8	26.1	9.72	3.684	
2,900.0	2,900.0	2,900.2	2,900.0	5.0	5.0	-136.54	-26.2	-24.9	36.2	26.1	10.07	3.592	
3,000.0	3,000.0	3,000.2	3,000.0	5.2	5.2	-136.42	-27.1	-24.1	36.3	25.9	10.42	3.483	
3,100.0	3,100.0	3,100.4	3,100.2	5.4	5.4	-139.32	-27.3	-23.5	36.0	25.3	10.77	3.346	
3,200.0	3,200.0	3,200.5	3,200.2	5.6	5.6	-139.89	-27.0	-22.8	35.3	24.2	11.12	3.180	
3,300.0	3,300.0	3,300.2	3,300.0	5.7	5.7	-140.25	-26.9	-22.3	35.0	23.5	11.46	3.049	
3,321.6	3,321.6	3,321.9	3,321.6	5.8	5.8	-140.32	-26.9	-22.3	34.9	23.4	11.54	3.029	
3,400.0	3,400.0	3,400.2	3,400.0	5.9	5.9	-140.77	-27.1	-22.1	35.0	23.2	11.81	2.962	
3,500.0	3,500.0	3,500.3	3,500.0	6.1	6.1	-141.99	-27.6	-21.5	35.0	22.8	12.16	2.876	
3,503.9	3,503.9	3,504.2	3,503.9	6.1	6.1	-138.24	-27.6	-21.5	35.0	22.8	12.18	2.873 SF	
3,600.0	3,600.0	3,600.2	3,600.0	6.3	6.3	-141.68	-28.2	-20.7	36.3	23.8	12.51	2.803	
3,700.0	3,699.8	3,699.7	3,699.5	6.4	6.4	-147.99	-29.2	-19.8	41.1	28.2	12.84	3.196	
3,800.0	3,799.4	3,799.9	3,799.7	6.6	6.6	-154.90	-30.3	-18.9	49.4	36.2	13.17	3.750	
3,900.0	3,898.7	3,899.4	3,899.1	6.8	6.8	-161.23	-30.0	-17.2	60.0	46.5	13.48	4.447	
4,000.0	3,997.4	3,998.1	3,997.8	7.0	7.0	-165.97	-29.8	-15.9	74.5	60.8	13.78	5.409	
4,100.0	4,095.6	4,097.0	4,096.7	7.2	7.1	-169.00	-28.9	-15.4	92.4	78.3	14.07	6.568	
4,200.0	4,193.0	4,194.0	4,193.7	7.5	7.3	-171.10	-27.9	-15.3	113.6	99.3	14.34	7.925	
4,300.0	4,289.5	4,290.5	4,290.2	7.8	7.5	-172.71	-27.4	-15.2	138.8	124.3	14.59	9.515	
4,400.0	4,385.3	4,385.9	4,385.6	8.1	7.6	-173.87	-27.0	-15.3	167.3	152.4	14.88	11.239	
4,500.0	4,480.8	4,481.5	4,481.2	8.5	7.8	-174.78	-26.8	-15.3	196.4	181.2	15.22	12.900	
4,600.0	4,576.4	4,576.1	4,575.8	8.8	8.0	-175.42	-26.8	-15.5	225.7	210.1	15.56	14.501	
4,700.0	4,672.0	4,682.4	4,682.1	9.2	8.1	-175.95	-26.7	-15.7	255.1	239.1	15.92	16.019	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Reference Site:	S17-T24N-R9W (Escrito)	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Escrito L17-2409 03H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S17-T24N-R9W (Escrito) - Escrito L17-2409 01H - Hz - FINAL		Offset Site Error:		0.0 ft	
Survey Program: 558-Geolink MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis		Distance												
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
4,800.0	4,767.6	4,852.5	4,847.5	9.6	8.5	-173.26	6.2	-31.5	264.1	247.7	16.42	16.084						
4,900.0	4,863.1	5,000.0	4,978.9	10.0	8.9	-178.47	65.0	-62.4	254.2	237.2	16.99	14.962						
5,000.0	4,957.7	5,122.4	5,074.0	10.4	9.5	170.38	133.5	-96.9	235.3	217.6	17.72	13.279						
5,054.5	5,007.9	5,163.4	5,102.5	10.7	9.8	167.96	159.5	-110.9	230.6	212.6	18.01	12.809						
5,100.0	5,048.6	5,187.4	5,118.3	10.9	10.0	166.20	174.7	-120.4	234.6	216.5	18.03	13.006						
5,200.0	5,133.1	5,226.0	5,142.8	11.4	10.3	162.49	199.0	-137.8	271.5	253.9	17.69	15.352						
5,300.0	5,208.5	5,249.4	5,157.2	12.0	10.5	155.81	213.5	-149.2	339.4	322.4	16.99	19.982						
5,400.0	5,272.6	5,258.3	5,162.6	12.8	10.6	141.42	219.0	-153.7	425.0	407.9	17.10	24.855						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Reference Site:	S17-T24N-R9W (Escrito)	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Escrito L17-2409 03H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S17-T24N-R9W (Escrito) - Escrito L17-2409 02H - Hz - FINAL														Offset Site Error:	0.0 ft	
Survey Program: 111-Geolink MWD														Offset Well Error:	0.0 ft	
Reference	Offset		Semi Major Axis		Distance		Total		Separation		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-143.39	-48.8	-36.2	60.8							
100.0	100.0	99.9	99.9	0.1	0.1	-143.38	-48.8	-36.3	60.8	60.5	0.30	205.666				
200.0	200.0	200.1	200.1	0.3	0.3	-143.38	-48.7	-36.2	60.7	60.0	0.64	94.454				
300.0	300.0	300.3	300.3	0.5	0.5	-143.45	-48.4	-35.9	60.3	59.3	0.99	60.782				
400.0	400.0	400.4	400.4	0.7	0.7	-143.34	-47.9	-35.7	59.8	58.4	1.34	44.565				
500.0	500.0	500.6	500.6	0.8	0.8	-143.34	-47.2	-35.2	58.9	57.2	1.69	34.839				
600.0	600.0	600.7	600.7	1.0	1.0	-143.07	-46.3	-34.8	57.9	55.8	2.04	28.367				
700.0	700.0	700.4	700.4	1.2	1.2	-142.69	-45.3	-34.5	57.0	54.6	2.39	23.863				
800.0	800.0	800.3	800.3	1.4	1.4	-142.66	-44.7	-34.1	56.2	53.5	2.74	20.528				
900.0	900.0	900.1	900.1	1.5	1.5	-141.92	-43.8	-34.3	55.6	52.5	3.09	18.011				
908.3	908.3	908.3	908.3	1.6	1.6	-141.81	-43.7	-34.4	55.6	52.5	3.12	17.843 CC				
1,000.0	1,000.0	999.4	999.3	1.7	1.7	-140.63	-43.5	-35.7	56.2	52.8	3.43	16.373				
1,100.0	1,100.0	1,099.4	1,099.4	1.9	1.9	-140.54	-44.3	-36.5	57.4	53.6	3.78	15.173				
1,200.0	1,200.0	1,199.3	1,199.3	2.1	2.1	-141.17	-45.6	-36.7	58.6	54.4	4.13	14.174				
1,300.0	1,300.0	1,299.1	1,299.0	2.2	2.2	-141.78	-47.1	-37.1	60.0	55.5	4.48	13.383				
1,400.0	1,400.0	1,398.8	1,398.7	2.4	2.4	-142.72	-49.2	-37.5	61.8	57.0	4.83	12.807				
1,500.0	1,500.0	1,499.3	1,499.2	2.6	2.6	-143.31	-51.3	-38.2	64.0	58.8	5.18	12.353				
1,600.0	1,600.0	1,600.9	1,600.8	2.8	2.8	-143.77	-51.3	-37.5	63.5	58.0	5.53	11.488				
1,700.0	1,700.0	1,700.5	1,700.3	2.9	2.9	-143.98	-50.9	-37.0	62.9	57.0	5.88	10.698				
1,800.0	1,800.0	1,800.6	1,800.5	3.1	3.1	-143.91	-50.3	-36.6	62.2	56.0	6.23	9.988				
1,900.0	1,900.0	1,900.6	1,900.5	3.3	3.3	-143.92	-49.5	-36.0	61.2	54.6	6.58	9.305				
2,000.0	2,000.0	2,000.6	2,000.5	3.5	3.5	-143.69	-48.7	-35.8	60.4	53.5	6.93	8.725				
2,097.0	2,097.0	2,097.1	2,097.0	3.6	3.6	-142.77	-47.7	-36.3	59.9	52.7	7.26	8.249				
2,100.0	2,100.0	2,100.1	2,100.0	3.6	3.6	-142.73	-47.7	-36.3	59.9	52.6	7.27	8.237				
2,200.0	2,200.0	2,200.1	2,199.9	3.8	3.8	-141.48	-47.0	-37.4	60.0	52.4	7.62	7.874				
2,300.0	2,300.0	2,300.4	2,300.3	4.0	4.0	-140.05	-45.9	-38.5	59.9	52.0	7.97	7.517				
2,331.0	2,331.0	2,331.2	2,331.0	4.0	4.0	-139.63	-45.8	-38.8	59.9	51.8	8.08	7.408				
2,400.0	2,400.0	2,400.1	2,399.9	4.2	4.2	-138.83	-45.2	-39.5	60.0	51.7	8.32	7.210				
2,500.0	2,500.0	2,500.1	2,499.9	4.3	4.3	-138.39	-45.0	-40.0	60.2	51.5	8.67	6.938				
2,568.7	2,568.7	2,568.9	2,568.7	4.5	4.5	-138.15	-44.8	-40.1	60.1	51.2	8.91	6.746				
2,600.0	2,600.0	2,600.0	2,599.8	4.5	4.5	-138.11	-44.8	-40.2	60.2	51.1	9.02	6.669 ES				
2,700.0	2,700.0	2,699.9	2,699.7	4.7	4.7	-137.86	-45.0	-40.7	60.7	51.3	9.37	6.477				
2,800.0	2,800.0	2,800.0	2,799.8	4.9	4.9	-138.05	-45.3	-40.8	61.0	51.2	9.72	6.273				
2,900.0	2,900.0	2,899.8	2,899.6	5.0	5.0	-139.09	-46.4	-40.2	61.4	51.3	10.07	6.098				
3,000.0	3,000.0	2,999.7	2,999.5	5.2	5.2	-140.00	-47.7	-40.0	62.2	51.8	10.42	5.975				
3,100.0	3,100.0	3,099.7	3,099.5	5.4	5.4	-140.52	-48.5	-39.9	62.8	52.0	10.76	5.834				
3,200.0	3,200.0	3,199.6	3,199.4	5.6	5.6	-140.90	-49.4	-40.2	63.7	52.6	11.11	5.731				
3,300.0	3,300.0	3,299.6	3,299.4	5.7	5.7	-141.22	-50.4	-40.5	64.7	53.2	11.46	5.644				
3,400.0	3,400.0	3,399.8	3,399.6	5.9	5.9	-141.14	-51.0	-41.1	65.5	53.7	11.81	5.547				
3,500.0	3,500.0	3,499.7	3,499.5	6.1	6.1	-140.89	-51.2	-41.6	66.0	53.9	12.16	5.429 SF				
3,600.0	3,600.0	3,599.2	3,599.0	6.3	6.3	-138.37	-52.5	-42.1	68.6	56.1	12.51	5.485				
3,700.0	3,699.8	3,699.1	3,698.9	6.4	6.4	-141.90	-54.3	-42.1	74.1	61.2	12.85	5.766				
3,800.0	3,799.4	3,799.3	3,799.1	6.6	6.6	-146.22	-55.4	-41.8	82.0	68.8	13.18	6.222				
3,900.0	3,898.7	3,896.3	3,896.0	6.8	6.8	-150.61	-56.9	-41.8	93.9	80.4	13.49	6.957				
4,000.0	3,997.4	3,992.4	3,992.1	7.0	6.9	-154.88	-60.9	-42.6	111.9	98.1	13.79	8.116				
4,100.0	4,095.6	4,088.6	4,088.2	7.2	7.1	-158.65	-65.9	-43.2	134.7	120.6	14.08	9.567				
4,200.0	4,193.0	4,183.0	4,182.4	7.5	7.3	-161.69	-71.4	-43.9	161.7	147.4	14.35	11.272				
4,300.0	4,289.5	4,277.5	4,276.6	7.8	7.5	-164.06	-77.7	-44.9	193.1	178.5	14.60	13.222				
4,400.0	4,385.3	4,371.3	4,370.3	8.1	7.6	-166.09	-83.8	-45.8	227.4	212.5	14.89	15.271				
4,500.0	4,480.8	4,468.7	4,467.5	8.5	7.8	-167.72	-89.3	-46.5	261.5	246.3	15.23	17.174				
4,600.0	4,576.4	4,560.4	4,559.1	8.8	8.0	-168.89	-93.8	-47.3	295.1	279.5	15.56	18.965				
4,700.0	4,672.0	4,617.0	4,615.3	9.2	8.1	-169.45	-99.7	-48.2	334.3	318.5	15.84	21.111				

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Reference Site:	S17-T24N-R9W (Escrito)	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Escrito L17-2409 03H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S17-T24N-R9W (Escrito) - Escrito L17-2409 02H - Hz - FINAL												Offset Site Error:	0.0 ft
Survey Program: 111-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,767.6	4,667.0	4,664.0	9.6	8.2	-169.92	-111.0	-49.4	384.1	368.0	16.10	23.858	
4,900.0	4,863.1	4,713.7	4,708.3	10.0	8.3	173.96	-125.6	-50.8	441.8	425.5	16.32	27.080	

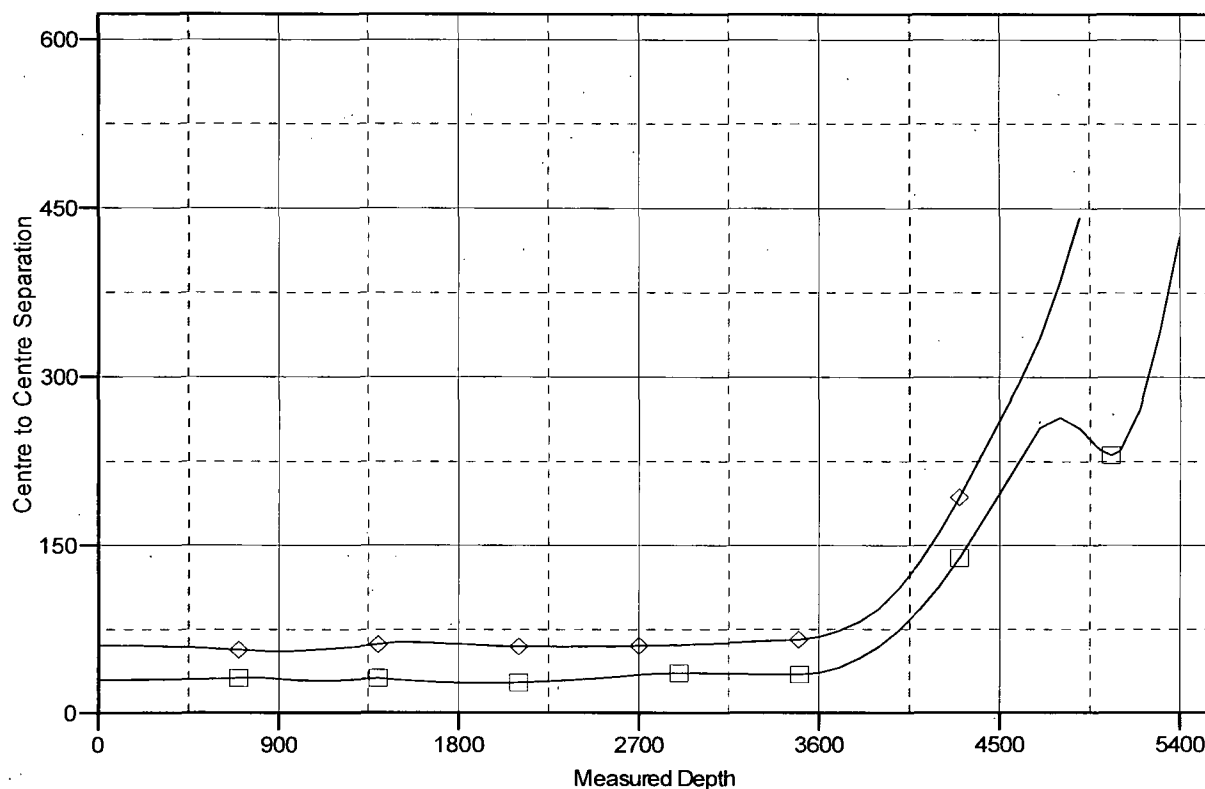
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Escrito L17-2409 03H
Project:	San Juan County, NM	TVD Reference:	WELL @ 6808.0ft (Original Well Elev)
Reference Site:	S17-T24N-R9W (Escrito)	MD Reference:	WELL @ 6808.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Escrito L17-2409 03H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 6808.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -107.833333 °

Coordinates are relative to: Escrito L17-2409 03H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.01°

Ladder Plot



LEGEND

Escrito L17-2409 01H, Hz, FINAL V0
 Escrito L17-2409 02H, Hz, FINAL V0

encana

Well Name and Number:
Escrito L17-2409 03H

