State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach 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: $9-18-14$ Well information; Operator $Encana$, Well Name and Number $Good Times E24 2410 # 02H$
operator Chicana , well Name and Number 13000 Times E27 2710 Oan
API# <u>30-045-35596</u> , Section <u>24</u> , Township <u>24</u> NS, Range <u>10</u> 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 NSD, (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
Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
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.
Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.
NMOCD Approved by Signature 2 - 25-15 Date

RECEIVED					
Form 3 60-3 (August 2007) FEB 0 2 2015 UNITED STATES	ſ	· · · · · · · · · · · · · · · · · · ·	1	ı o	ORM APPROVED MB No. 1004-0137 pires July 31, 2010
NEAC OPPARTMENT OF THE I	NTERIOR		3 26/9	5. Lease Seria NM 25842, NM	
APPLICATION FOR PERMIT TO I	AGEMENT	REENTER	an bara.	-	Allotee or Tribe Name
la. Type of work: DRILL REENTE	R			Pending	A Agreement, Name and No.
lb. Type of Well: ✓ Oil Well Gas Well Other	. ✓ Si	ngle Zone Multip	le Zone	8. Lease Name Good Tim	e and Well No. es E24-2410 02H
2. Name of Operator Encana Oil & Gas (USA) Inc.			 _	9. API Well N	45-35596
370 17th Street, Suite 1700). (include area code)		1	ool, or Exploratory
Denver, CO 80202	720-876-3			Basin Mancos	
 Location of Well (Report location clearly and in accordance with any At surface 2402' FNL and 1168' FWL Section 24, T24N, 			SH	!	I. or Blk.and Survey or Area F, T24N, R10W NMPM
At proposed prod. zone 2314' FNL and 2010' FWL Section 24, 124N,			B)		25, 725N, RICE
14. Distance in miles and direction from nearest town or post office* +/- 33.7 miles southeast of the intersection of US Hwy 550				12. County or P	
15. Distance from proposed* location to nearest property or lease line, fit. (Also to nearest drig. unit line. if any)	16. No. of NM 25842 NM 5991-		_318-30		to this well
18. Distance from proposed location* to nearest well, drilling, completed, on this lease, ft. Good Times Unit E24-24 on H is +/-30'W from SHL	19. Proposo 5139' T.VI	d Depth D/ 10363.9' MD	20. BLM/ COB-00	BIA Bond No. on 00235	RECEIVED
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date work will sta	rt*	23. Estimated	diration
6919.8' GL, 6935.8' KB	03/18/2015		20 days	FEB 2 0 2015	
	24. Atta				
The following, completed in accordance with the requirements of Onshor 1. Well plat certified by a registered surveyor.	e Oil and Gas	•			NMOCD by an existing the population file (see).
2. A Drilling Plan.		Item 20 above).			, Absumer III
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	Lands, the	Operator certific Such other site BLM.		`ormation and/or p	plans as may be required by the
25. Signatur Halle Me	. 1	(Printed/Typed) Wegner			Date 9/18/14
Title Regulatory Analyst					
Approved by (Signature) Manlie Cop		(Printed/Typed)			Date /29/15
Title AFM	Offic	FFD.			′ ′/
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equ	itable title to those righ	nts in the su	bject lease which v	would entitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any to any matter	person knowingly and within its jurisdiction.	willfully to	make to any depar	tment or agency of the United

(Continue MODERATIONS
AUTHORIZED ARE SUBJECT TO
COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS

ON FEDERAL AND INDIAN LANDS ON FEDERAL AND INDIAN LANDS

This action is subject to technical and procedural review building to

District i

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

811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (575) 748-9720

District III

UL or lot no.

Ε

1000 Rio Brazos Road, Aztec, NM 87410 Phone (505) 334-8178 Fax: (505) 334-6170 District IV

1220 S St. Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3460 Fax: (505) 476-3462

Section

24

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

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

Form C-102 Revised August 1, 2011 Submit one copy to appropriate **District Office**

AMENDED REPORT

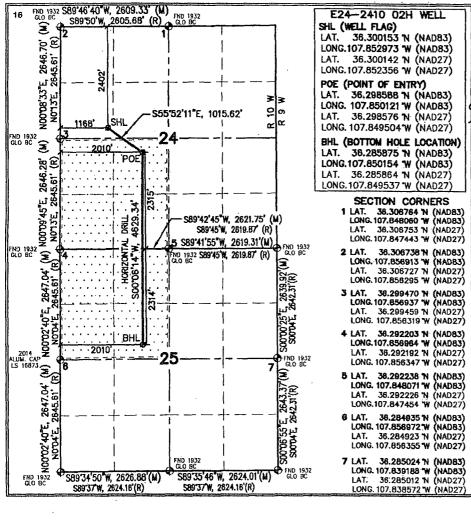
WELL LOCATION AND ACREAGE DEDICATION PLAT ¹ API Number Pool Code 3 Pool Name BASIN MANCOS 97232 ⁴ Property Code ⁵ Property Name ⁶ Well Number 314181 GOOD TIMES E24-2410 02H OGRID No. ⁸ Operator Name ⁹ Elevation 282327 ENCANA OIL & GAS (USA) INC. 6919.8

> 10 Surface Location Range Township Lot Idn Feet from the North/South line Feet from the East/West Line County 10W NORTH 1168 WEST SAN JUAN **24N** 2402

> > 11 Bottom Hole Location If Different From Surface

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	o Loodiloit ii	Dinordia i Tom C	dilacc		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
· F	25	24N	10W		2314	NORTH	2010	WEST	SAN JUÁN
Jedicated Acr	RES	SW/4 SE		24 25	¹³ Joint or Infili	¹⁴ Consolidation Code	¹⁵ Order No.		

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.



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 Katie Wegner Printed Name Kathryn.Wegner@encana.com E-mail Address 18 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. April 22, 2014 Date of Survey Signature and Seal of Professional Surveyor. POTE SONAL SUR 1687 α 0

RICHARD L.

Certificate Number

MULLIKEN

16873

SHL: 2402'FNL & 1168'FWL Sec 24 24N10W BHL: 2314'FNL & 2010'FWL Sec 25 24N10W

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
San Jose Fn.	n/a
Nacimiento Fn.	surface
Ojo Alamo Ss.	803
Kirtland Shale	963
Fruitland Coal	1,275
Pictured Cliffs Ss.	1,591
Lewis Shale	1,699
Cliffhouse Ss.	2,328
Menefee Fn.	3,084
Point Lookout Ss.	3,967
Mancos Shale	4,199
Mancos Silt	4,753
Gallup Fn.	5,028
Base Gallup	5,356

The referenced surface elevation is 6920', KB 6936'

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

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,275
Oil/Gas	Pictured Cliffs Ss.	1,591
Oil/Gas	Cliffhouse Ss.	2,328
Gas	Menefee Fn.	3,084
Oil/Gas	Point Lookout Ss.	3,967
Oil/Gas	Mancos Shale	4,199
Oil/Gas	Mancos Silt	4,753
Oil/Gas	Gallup Fn.	5,028

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

SHL: 2402'FNL & 1168'FWL Sec 24 24N10W BHL: 2314'FNL & 2010'FWL Sec 25 24N10W

San Juan, New Mexico

3. PRESSURE CONTROL

- a) Pressure contol 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.
- 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).
- 1) 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 times.
- 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'-60'	26"	16"	42.09#	
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5342'	8 3/4"	7".	26#	J55, LTC New
Production Liner	5242'-10364'	6 1/8"	4 1/2"	11.6#	B80*, LTC New

Casing String				Casing Strength Properties			Minimum	Design	Factors
Size	Weight	Grade	Connectio	Collapse	Burst (psi)	Tensile (1000lbs)	Collapse	Burst	Tensio
	(ppf)		n	(psi)					n
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.

SHL: 2402'FNL & 1168'FWL Sec 24 24N10W BHL: 2314'FNL & 2010'FWL Sec 25 24N10W

San Juan, New Mexico

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.

b) The proposed cementing program is as follows:

Casing	Depth	Cement Volume	Cement Type & Yield	Designed	Centralizers
	_(MD)	(sacks)		TOC	
Conductor	0'-60'	100 sks	Type I Neat 16 ppg	Surface	None
Surface	0'-500'	276 sks	Type III Cement + 1% bwoc	Surface	1 per joint on
			Calcium Chloride + 0.25 lbs/sack		bottom 3 joints
			Cello Flake + 0.2% bwoc FL-52A +	i	
			58.9% Fresh Water		
			·		
Intermediate	0'-5342'	100% open hole excess	Lead: PremLite + 3% CaCl +	Surface	1 every 3 joints
		Stage 1 Lead:	0.25lb/sk CelloFlake + 5lb/sk LCM,	1	through water
		708 sks	12.1ppg 2.13cuft/sk		bearing zones
		Stage 1 Tail:	Tail: Type III Cmt + 1% CaCl +		,
		538 sks	0.25lb/sk Cello Flake 14.5ppg		
			1.38cuft/sk		
Production	5242'-	50% OH excess	Blend: Premium Lite High	Liner	N/A
Liner	10364'	Stage 1 Blend Total:	Strength FM + 0.7% bwoc R-3 +	Hanger	
		279sks	3% bwow Potassium Chloride +		
			0.25lbs/sack Cello Flake + 0.5%		
			bwoc CD-32 + 1.15% bwoc FL-		
			52A + 60 lbs/sack Calcium		
			Carbonate + 124.4% Fresh Water.		
			Yield 2.63 cuft/sk		

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 2500'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	5139'/10364'	Gallup

SHL: 2402'FNL & 1168'FWL Sec 24 24N10W BHL: 2314'FNL & 2010'FWL Sec 25 24N10W

San Juan, New Mexico

6. DRILLING FLUIDS PROGRAM

a) Surface through Intermediate Casing Point:

				Viscosity	
Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	(sec/qt)	Fluid Loss (cc)
30"	0-60'/60'	Fresh Water	8.3-9.2	38-100	4-28
12 1/4"	0'-500'/500'	Fresh Water	8.3-10	60-70	NC
8 3/4"	500'/500'-5140'/5342	Fresh Water LSND	8.3-10	40-50	8-10

b) Intermediate Casing Point to TD:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
	5140'/5342'-				
6 1/8"	5139'/10364'	Fresh Water LSND	8.3-10	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. 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 +/- 2464 psi based on a 9.0 ppg at 5266' TVD of the horizontal lateral target. No abnormal pressure or temperatures are anticipated.

No hydrogen sulfide gas is anticipated, however, if H_2S 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 March 18, 2015. 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.

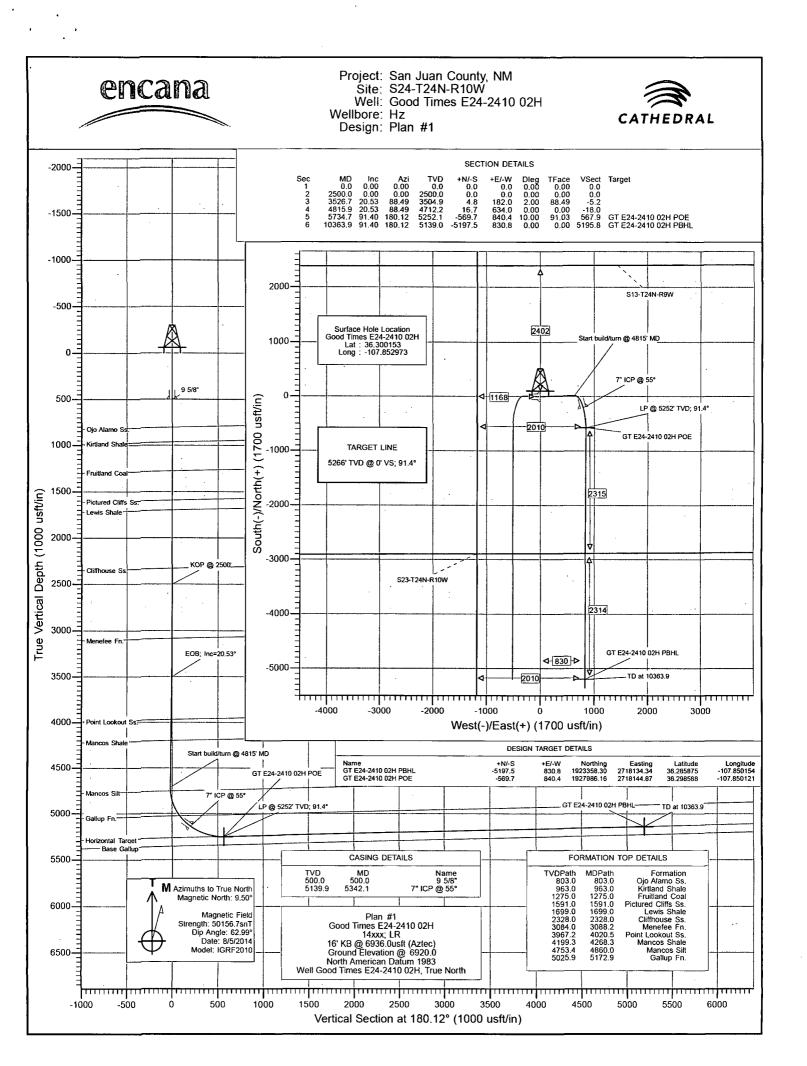
It is anticipated that the drilling of this well will take approximately 20 days.



Boomerang Tube LLC

CASING (OR) TUBING DESCRIPTION AND PERFORMANCE PROPERTIES

Pipe Outside Diameter (ins) Pipe Wall Thickness (ins) Nominal Weight Per Foot (lbs)	4.500 0.250 11.60
Thread Name Long The Grade Name	read CSG SB-80
Pipe Minimum Yield (psi) Pipe Minimum Ultimate (psi)	80,000 90,000
Coupling Minimum Yield (psi) Coupling Minimum Ultimate (psi)	80,000 100,000
Coupling or Joint Outside Diameter (ins) Drift Diameter (ins) Plain End Weight per Foot (lbs)	5.000 3.875 11.36
Joint Strength (lbs) Internal Yield (psi) Collapse Rating (psi)	201,000 7,780 6,350
MAXIMUM DEPTH/LENGTH BASED ON MUD WTS & SAFETY FACTORS	
Drilling Mud Weight (ppg)	9.625
Tension Safety Factor Maximum Tension Length (ft)	1.80 9,630
Internal Yield Safety Factor Maximum Depth for Internal Yield (ft)	1.10 14,150
Collapse Safety Factor Maximum Collapse Depth (ft)	1.125 11,290
API RELATED VALUES and INTERMEDIATE CALCULATION RESULTS	,
Coupling Thread Fracture Strength Pipe Thread Fracture Strength (lbs)	464,000 201,000
Pipe Body Plain End Yield (lbs) Round Thread Pull-Out (lbs)	267,000 219,000
Minimum Make-up Torque (ft-lbs) Nominal Make-up Torque (ft-lbs) Maximum Make-up Torque (ft-lbs)	1,640 2,190 2,740
Coupling Internal Yield (psi) Pipe Body Internal Yield (psi) Leak @ E1 or E7 plane (psi)	10,660 7,780 17,920
Pipe Hydrostatic Test Pressure @ 80 % SMYS	7,100



Database:

USA EDM 5000 Multi Users DB

Company: Project:

EnCana Oil & Gas (USA) Inc San Juan County, NM

Site:

S24-T24N-R10W

Well:

Good Times E24-2410 02H

Wellbore: Design:

Hz Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Good Times E24-2410 02H 16' KB @ 6936.0usft (Aztec) 16' KB @ 6936.0usft (Aztec)

North Reference: **Survey Calculation Method:**

Minimum Curvature

Project

San Juan County, NM

Map System:

US State Plane 1983

Geo Datum: Map Zone:

North American Datum 1983 New Mexico Western Zone

System Datum:

Mean Sea Level

Site

S24-T24N-R10W

Site Position: From:

Lat/Long

Northing: Easting:

1,928,556.02 usft

Latitude: Longitude:

36.300153

Position Uncertainty:

0.0 usft

Slot Radius:

2,717,274.54 usft 13-3/16"

Grid Convergence:

-107.853075 -0.01 °

Well

Good Times E24-2410 02H

Well Position

+N/-S +E/-W 0.0 usft 0.0 usft Northing: Easting:

1,928,556.02 usft 2,717,304.59 usft Latitude: Longitude:

36.300153 -107.852973

Position Uncertainty

0.0 usft

Wellhead Elevation:

0.0 usft

Ground Level:

6,920.0 usft

Wellbore Ηz

Model Name

Sample Date

Declination

Dip Angle

Field Strength

IGRF2010

8/5/2014

9.50

62.99

50,157

Design

Magnetics

Plan #1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.0

Depth From (TVD)

+E/-W

Direction

Vertical Section:

(usft) 0.0

+N/-S (usft) 0.0

(usft) 0.0

(°) 180.12

lan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,526.7	20.53	88.49	3,504.9	4.8	182.0	2.00	2.00	0.00	88.49	
4,815.9	20.53	88.49	4,712.2	16.7	634.0	0.00	0.00	0.00	0.00	
5,734.7	91.40	180.12	5,252.1	-569.7	840.4	10.00	7.71	9.97	91.03	ST E24-2410 02H I
10,363.9	91.40	180.12	5,139.0	-5,197.5	830.8	0.00	0.00	0.00	0.00	ST E24-2410 02H I

Database:

USA EDM 5000 Multi Users DB

Company: Project: EnCana Oil & Gas (USA) Inc San Juan County, NM

Project: Site: S Well: S

S24-T24N-R10W Good Times E24-2410 02H

Wellbore: Design: Hz Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Good Times E24-2410 02H

16' KB @ 6936.0usft (Aztec) 16' KB @ 6936.0usft (Aztec)

True

Minimum Curvature

anned Surve	у				.,				
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	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	
0.008	0.00	0.00	0.008	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	
963.0	0.00	0.00	963.0	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	
1,275.0	0.00	0.00	1,275.0	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	
,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
,591.0	0.00	0.00	1,591.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,699.0	0.00	0.00	1,699.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
,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	
2,328.0	0.00	0.00	2,328.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
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		KOP @ 2500'
2,600.0	2.00	88.49	2,600.0	0.0	1.7	0.0	2.00	2.00	
2,700.0	4.00	88.49	2,699.8	0.2	7.0	-0.2	2.00	2.00	
2,800.0	6.00	88.49	2,799.4	0.4	15.7	-0.4	2.00	2.00	
2,900.0	8.00	88.49	2,898.7	0.7	27.9	-0.8	2.00	2.00	
3,000.0	10.00	88.49	2,997.5	1.1	43.5	-1.2	2.00	2.00	
3,088.2	11.76	88.49	3,084.0	1.6	60.1	-1.7	2.00		Menefee Fn.
,100.0	12.00	88.49	3,095.6	1.6	62.6	-1.8	2.00	2.00	
3,200.0	14.00	88.49	3,193.0	2.2	85.1	-2.4	2.00	2.00	
3,300.0	16.00	88.49	3,289.6	2.9	110.9	-3.2	2.00	2.00	
3,400.0	18.00	88.49	3,385.3	3.7	140.2	-4.0	2.00	2.00	
3,500.0	20.00	88.49	3,479.8	4.5	172.7	-4.9	2.00	2.00	E00 1 22 53
3,526.7	20.53	88.49	3,504.9	4.8	182.0	-5.2	2.00		EOB; Inc=20.53°
3,600.0	20.53	88.49	3,573.5	5.5	207.7	-5.9	0.00	0.00	•
3,700.0	20.53	88.49	3,667.1	6.4	242.7	-6.9	0.00	0.00	
3,800.0	20.53	88.49	3,760.8	7.3	277.8	-7.9	0.00	0.00	
3,900.0	20.53	88.49	3,854.4	8.2	312.9	-8.9	0.00	0.00	
1,000.0	20.53	88.49	3,948.1	9.2	347.9	-9.9	0.00	0.00	
4,020.5	20.53	88.49	3,967.2	9.3	355.1	-10.1	0.00	0.00	Point Lookout Ss.
1,100.0	20,53	88.49	4,041.7	10.1	383.0	-10.9	0.00	0.00	
4,200.0	20.53	88.49	4,135.4	11.0	418.0	-11.9	0.00	0.00	

Database:

USA EDM 5000 Multi Users DB

Company: Project:

EnCana Oil & Gas (USA) Inc San Juan County, NM

Site:

S24-T24N-R10W

Well:

Good Times E24-2410 02H

Wellbore: Design:

Hz Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

16' KB @ 6936.0usft (Aztec)

North Reference:

Survey Calculation Method:

True

Minimum Curvature

Well Good Times E24-2410 02H

16' KB @ 6936.0usft (Aztec)

ned Surve	у								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments <i>i</i> Formations
4,268.3	20.53	88.49	4,199.3	11.6	442.0	-12.6	0.00	0.00	Mancos Shale
4,300.0	20.53	88.49	4,229.0	11.9	453.1	-12.9	0.00	0.00	
4,400.0	20.53	88.49	4,322.7	12.8	488.2	-13.9	0.00	0.00	
4,500.0	20.53	88.49	4,416.3	13.8	523.2	-14.9	0.00	0.00	
4,600.0	20.53	88.49	4,510.0	14.7	558.3	-14.9	0.00	0.00	
4,700.0	20.53	88.49	4,603.6	15.6	593.4	-16.9	0.00	0.00	
4,800.0	20.53	88.49	4,697.2	16.5	628.4	-17.9	0.00	0.00	
4,815.9	20.53	88.49	4,712.2	16.7	634.0	-18.0	0.00		Start build/turn @ 4815' MD
4,860.0	20.90	100.93	4,753.4	15.4	649.5	-16.8	10.00	0.84	Mancos Silt
4,900.0	21.98	111.48	4,790.6	11.3	663.5	-10.0	10.00	2.69	Wildiness Siit
5,000.0	27.06	132.44	4,881.8	-11.0	697.7	9.5	10.00	5.08	
5,100.0	34.24	146.21	4,967.9	-49.8	730.3	48.3	10.00	7.18	
5,172.9	40.16	153.25	5,025.9	-87.8	752.3	86.3	10.00		Gallup Fn.
		155.43	5,046.3	-104.0	760.0				
5,200.0 5,300.0	42.46 51.22	162.08	5,114.7	-104.0	786.1	102.4 170.3	10.00 10.00	8.47 8.76	
5,342.1	55.00	164.39	5,114.7	-172.0	795.8	202.5	10.00		7" ICP @ 55°
5,400.0	60.27	167.24	5,170.9	-251.6	807.7	249.9	10.00	9.10	7 ICF @ 33
5,500.0	69.48	171.54	5,213.3	-340.5	824.3	338.7	10.00	9.22	
5,600.0	78.79	175.34	5,240.7	-435.9	835.2	434.2	10.00	9.31	
5,700.0	88.15	178.90	5,252.0	-535.0	840.1	533.3	10.00	9.35	LD @ 5050! TVD: 04.49 CT F04.0440.00!
5,734.7 5,800.0	91.40	180.12 180.12	5,252.2 5,250.5	-569.7 -635.0	840.4 840.3	567.9 633.2	10.02 0.00	0.00	LP @ 5252' TVD; 91.4° - GT E24-2410 02F
5,900.0	91.40 91.40	180.12	5,248.1	-735.0	840.1	733.2	0.00	0.00	
6,000.0	91.40	180.12 180.12	5,245.6	-834.9 -934.9	839.8 839.6	833.2 933.1	0.00	0.00	
6,100.0 6,200.0	91.40 91.40	180.12	5,243.2 5,240.7	-934.9 -1,034.9	839.4	1,033.1	0.00 0.00	0.00	
6,300.0	91.40	180.12	5,238.3	-1,134.8	839.2	1,133.1	0.00	0.00	
6,400.0	91.40	180.12	5,235.8	-1,134.8	839.0	1,133.1	0.00	0.00	
			·						
6,500.0	91.40	180.12	5,233.4	-1,334.8	838.8	1,333.0	0.00	0.00	
6,600.0	91.40	180.12 180.12	5,231.0 5,228.5	-1,434.7 -1,534.7	838.6	1,433.0	0.00	0.00	
6,700.0 6,800.0	91.40 91.40	180.12	5,226.1	-1,534.7	838.4 838.2	1,533.0 1,632.9	0.00 0.00	0.00	
6,900.0	91.40	180.12	5,223.6	-1,734.7	838.0	1,732.9	0.00	0.00	
7,000.0	91.40	180.12	5,221.2	-1,834.6 -1,934.6	837.8	1,832.9	0.00	0.00	
7,100.0	91.40 91.40	180.12 180.12	5,218.7 5,216.3	-1,934.6 -2,034.6	837.6 837.4	1,932.8 2,032.8	0.00 0.00	0.00 0.00	
7,200.0 7,300.0	91.40	180.12	5,210.3	-2,034.6 -2,134.5	837.2	2,032.8	0.00	0.00	
7,400.0	91.40	180.12	5,211.4	-2,134.5	836.9	2,132.7	0.00	0.00	
		180.12	5,209.0					0.00	
7,500.0 7,600.0	91.40 91.40	180.12	5,209.0 5,206.5	-2,334.5 -2,434.4	836.7 836.5	2,332.7 2,432.7	0.00 0.00	0.00	
7,800.0 7,700.0	91.40 91.40	180.12	5,206.5	-2,434.4 -2,534.4	836.3	2,432.7 2,532.7	0.00	0.00	
7,700.0	91.40	180.12	5,201.6	-2,634.4	836.1	2,632.6	0.00	0.00	
7,000.0	91.40	180.12	5,199.2	-2,734.4	835.9	2,732.6	0.00	0.00	
				•					
8,000.0	91.40	180.12	5,196.8 5.104.3	-2,834.3 -2,934.3	835.7 835.5	2,832.6 2,932.5	0.00	0.00	
8,100.0	91.40	180.12 180.12	5,194.3 5,191.9	-2,934.3 -3,034.3	835.5 835.3	2,932.5 3,032.5	0.00 0.00	0.00	
8,200.0 8,300.0	91.40 91.40	180.12	5,191.9 5,189.4	-3,034.3 -3,134.2	835.1	3,032.5 3,132.5	0.00	0.00	
8,300.0 8,400.0	91.40	180.12	5,189.4 5,187.0	-3,134.2 -3,234.2	834.9	3,132.5	0.00	0.00	
•									
8,500.0	91.40	180.12 180.12	5,184.5 5.182.1	-3,334.2 -3,434.1	834.7 834.5	3,332.4 3,432.4	0.00 0.00	0.00	
8,600.0 8,700.0	91.40	180.12	5,182.1 5,179.7	-3,434.1 -3,534.1	834.5 834.3	3,432.4 3,532.4	0.00	0.00	
0.700.0	91.40	100.12	5,118.1	~J,JJ4. I	034.3	J,JJZ.4	0.00	0.00	

Database: Company: USA EDM 5000 Multi Users DB

EnCana Oil & Gas (USA) Inc San Juan County, NM

Project: Site: Well:

S24-T24N-R10W Good Times E24-2410 02H

Wellbore: Design: Local Co-ordinate Reference:

TVD Reference:
MD Reference:

Well Good Times E24-2410 02H 16' KB @ 6936.0usft (Aztec) 16' KB @ 6936.0usft (Aztec)

North Reference: True
Survey Calculation Method: Minim

Minimum Curvature

sign:	Plan #1	
	•	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
8,900.0	91.40	180.12	5,174.8	-3,734.1	833.8	3,732.3	0.00	0.00	
9,000.0	91.40	180.12	5,172.3	-3,834.0	833.6	3,832.3	0.00	0.00	
9,100.0	91.40	180.12	5,169.9	-3,934.0	833.4	3,932.2	0.00	0.00	
9,200.0	91.40	180.12	5,167.4	-4,034.0	833.2	4,032.2	0.00	0.00	
9,300.0	91.40	180.12	5,165.0	-4,133.9	833.0	4,132.2	0.00	0.00	
9,400.0	91.40	180.12	5,162.6	-4,233.9	832.8	4,232.1	0.00	0.00	
9,500.0	91.40	180.12	5,160.1	-4,333.9	832.6	4,332.1	0.00	0.00	
9,600.0	91.40	180.12	5,157.7	-4,433.8	832.4	4,432.1	0.00	0.00	
9,700.0	91.40	180.12	5,155.2	-4,533.8	832.2	4,532.1	0.00	0.00	
9,800.0	91.40	180.12	5,152.8	-4,633.8	832.0	4,632.0	0.00	0.00	
9,900.0	91.40	180.12	5,150.3	-4,733.7	831.8	4,732.0	0.00	0.00	
10,000.0	91.40	180.12	5,147.9	-4,833.7	831.6	4,832.0	0.00	0.00	
10,100.0	91.40	180.12	5,145.4	-4,933.7	831.4	4,931.9	0.00	0.00	
10,200.0	91.40	180.12	5,143.0	-5,033.7	831.1	5,031.9	0.00	0.00	
10,300.0	91.40	180.12	5,140.6	-5,133.6	830.9	5,131.9	0.00	0.00	
10,363.9	91.40	180.12	5,139.0	-5,197 <i>.</i> 5	830.8	5,195.8	0.00	0.00	TD at 10363.9 - GT E24-2410 02H PBHL

Targets			ma 4						;
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
GT E24-2410 02H POE - plan misses target o - Point	0.00 center by 0.1u	0.00 Isft at 5734.7	5,252.1 usft MD (525	-569.7 52.2 TVD, -56	840.4 9.7 N, 840.4 E	1,927,986.16 E)	2,718,144.87	36.298588	-107.850121
GT E24-2410 02H PBHt - plan hits target cent - Point	0.00 ler	0.00	5,139.0	-5,197.5	830.8	1,923,358.30	2,718,134.34	36.285875	-107.850154

Casing Points							1
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")	
	500.0	500.0	9 5/8"		. 0	0	
	5,342.1	5,139.9	7" ICP @ 55°		0	0	

Database:

USA EDM 5000 Multi Users DB

Company: Project: EnCana Oil & Gas (USA) Inc San Juan County, NM S24-T24N-R10W

Site: Well:

Good Times E24-2410 02H

Wellbore: Design: Hz Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Good Times E24-2410 02H 16' KB @ 6936.0usft (Aztec) 16' KB @ 6936.0usft (Aztec)

North Reference:

Survey Calculation Method:

True

Minimum Curvature

ions						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	803.0	803.0	Ojo Alamo Ss.	•	-1.40	180.12
	963.0	963.0	Kirlland Shale		-1.40	180.12
	1,275.0	1,275.0	Fruitland Coal		-1.40	180.12
	1,591.0	1,591.0	Pictured Cliffs Ss.		-1.40	180.12
	1,699.0	1,699.0	Lewis Shale		-1.40	180.12
	2,328.0	2,328.0	Cliffhouse Ss.		-1.40	180.12
	3,088.2	3,084.0	Menefee Fn.		-1.40	180.12
	4,020.5	3,967.0	Point Lookout Ss.		-1.40	180.12
	4,268.3	4,199.0	Mancos Shale		-1.40	180.12
	4,860.0	4,753.0	Mancos Silt		-1.40	180.12
	5,172.9	5,028.0	Gallup Fn.		-1.40	180.12

Annotations		•	•	·
Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,500.0	2,500.0	0.0	0.0	KOP @ 2500'
3,526.7	3,504.9	4.8	182.0	EOB; Inc=20.53°
4,815.9	4,712.2	16.7	634.0	Start build/turn @ 4815' MD
5,734.7	5,252.2	-569.7	840.4	LP @ 5252' TVD; 91.4°
10,363.9	5,139.0	-5,197.5	830.8	TD at 10363.9

EnCana Oil & Gas (USA) Inc

San Juan County, NM S24-T24N-R10W Good Times E24-2410 02H Hz Plan #1

Anticollision Report

06 August, 2014

Company:

EnCana Oil & Gas (USA) Inc

Project:

San Juan County, NM

Reference Site:

S24-T24N-R10W

Site Error: Reference Well: 0.0usft Good Times E24-2410 02H

Reference Design:

0.0usft

Well Error: Reference Wellbore

Ηz Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

True

Minimum Curvature

2.00 sigma

USA EDM 5000 Multi Users DB

Well Good Times E24-2410 02H

16' KB @ 6936.0usft (Aztec)

16' KB @ 6936.0usft (Aztec)

Offset TVD Reference:

Offset Datum

Reference

Filter type: Depth Range:

Results Limited by:

NO GLOBAL FILTER: Using user defined selection & filtering criteria MD Interval 100.0usft

Interpolation Method:

Unlimited

Maximum center-center distance of 1,236.4usft

Error Model:

Scan Method: Error Surface: Systematic Ellipse Closest Approach 3D

Elliptical Conic

Warning Levels Evaluated at:

2.00 Sigma

Survey Tool Program

Date 8/6/2014

From (usft) To

(usft)

Survey (Wellbore)

Tool Name

Description

0.0

10,363.9 Plan #1 (Hz)

Geolink MWD

Geolink MWD

	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
S24-T24N-R10W Good Times E24-2410 01H - Hz - Plan #1	2,500.0	2,500.0	30.1	21.4	3.466	CC, ES, SF
S25-T24N-R10W Good Times P25-2410 01H - Hz - Plan #1	10,363.9	8,237.0	794.6	705.6	8.924	CC, ES, SF

Company:

EnCana Oil & Gas (USA) Inc

Project:

San Juan County, NM S24-T24N-R10W

Reference Site: Site Error:

0.0usft

Reference Well: Good Times E24-2410 02H

Well Error: Reference Wellbore Reference Design: 0.0usft Hz Plan #1 Local Co-ordinate Reference:

TVD Reference:

Well Good Times E24-2410 02H 16' KB @ 6936.0usft (Aztec) 16' KB @ 6936.0usft (Aztec)

North Reference:

True

Survey Calculation Method:

Output errors are at

Minimum Curvature 2.00 sigma

Database:

USA EDM 5000 Multi Users DB

Offset TVD Reference:

Offset Datum

	esign		1N-Ŗ10W	 Good Tim 	nes E24-2	2410 01H - H	łz - Plan #1		-		-		Offset Site Error:	0.0 us
vey Prog	•	eolink MWD Offse	.,	Cami Mai	Awie				Bis to				Offset Well Error:	0.0 us
Refei asured	rence Vertical	Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	, Offset Wellbor	a Cantra	Dista	nce Between	Total	Separation		
epth	Depth	Depth	Depth	.veielelle	Onset	Toolface	+N/-S	+E/-W	Between Centres	Ellipses	Total Uncertainty	Factor	Warning	
usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-30,1	30.1	• •				
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-30.1	30.1	29.8	0.29	102.503		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-30.1	30.1	29.4	0.64	46.795		
300.0		300.0	300.0	0.5	0.5	-90.00	0.0	-30.1	30.1	29.1	0.99	30.318		
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-30.1	30.1	28.7	1,34	22.423		
500.0	500.0	500.0	500.0	0.8	0.8	-90,00	0.0	-30.1	30.1	28.4	1.69	17.790		
600.0	600.0	600.0	600.0	1.0	1.0	-90.00	0.0	-30.1	30.1	28.0	2.04	14.744		
700.0	700.0	700.0	700.0	1.2	1.2	-90.00	0.0	-30.1	30.1	27.7	2.39	12.588		
800.0	800.0	800.0	800.0	1.4	1.4	-90.00	0.0	-30.1	30.1	27.3	2.74	10.983		
900.0	900.0	. 900.0	900.0	1.5	1.5	-90.00	0.0	-30.1	30.1	27.0	3.09	9.740		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-90.00	0.0	-30.1	30.1	26.6	3.43	8.750	•	
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	-90.00	0.0	-30.1	30.1	26.3	3.78	7.943		
1,200.0		1,200.0	1,200.0	2.1	2.1	-90.00	0.0	-30.1	30.1	25.9	4.13	7.272		
1,300.0	1,300.0	1,300.D	1,300.0	2.2	2.2	-90.00	0.0	-30.1	30.1	25.6	4.48	6.706		
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	-90.00	0.0	-30.1	30.1	25.2	4.83	6.221		
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	-90.00	0.0	-30.1	30.1	24.9	5,18	5.802		
1 600 0	1,600.0	1,600.0	1,600.0	2.8	2.0	-90.00	0.0	20.4	aa -	24.5		E 400		
1,600.0 1,700.0	1,700.0	1,700.0	1,700.0	2.8	2.8 2.9	-90.00	0.0 0.0	-30.1 -30.1	30.1 30.1	24.5 24.2	5.53 5.88	5.436 5.113		
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	-90.00	0.0	-30.1 -30.1	30.1	23.8	6.23	5.113 4.826		
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	-90.00	0.0	-30.1	30.1	23.5	6.58	4.570		
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	-90.00	0.0	-30.1	30.1	23.1	6.93	4.340		
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	-90.00	0.0	-30.1	30.1	22.8	7.27	4.132		
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	-90.00	0.0	-30.1	30.1	22.4	7.62	3.942		
2,300.0	2,300.0 2,400.0	2,300.0 2,400.0	2,300.0 2,400.0	4.0	4.0	-90.00 -90.00	0.0	-30.1	30.1	22.1	7.97	3.770		
2,400.0 2,500.0	2,400.0	2,400.0	2,500.0	4.2 4.3	4.2 4.3	-90.00 -90.00	0.0 0.0	-30.1 -30.1	30.1 30.1	21.7 21.4	8.32 8.67	3.612 3.466 CC	S ES SE	
2,000.0	2,300.0	2,500.0	2,500.0	7.3	4.5	50.00	0.0	-30.1	3u, I	21.4	0.07	J.400 CC	a, EG, Gi	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	-178.57	0.0	-30.1	31.8	22.8	9.02	3.527		
2,700.0	2,699.8	2,699.8	2,699.8	4.7	4.7	-178.77	0.0	-30.1	37.0	27.7	9.35	3.959		
2,800.0	2,799.5	2,799.5	2,799.5	4.9	4.9	-179.00	0.0	-30.1	45.7	36.1	9.68	4.724		
2,900.0	2,898.7	2,898.7	2,898.7	5.1	5.0	-179.21	0.0	-30.1	57.9	47.9	10.00	5.791		
3,000.0	2,997.5	2,997.5	2,997.5	5.3	5.2	-179.37	0.0	-30.1	73.6	63.3	10.31	7.133		
3,100.0	3,095.6	3,095.6	3,095.6	5.5	5.4	-179.50	0.0	-30.1	92.7	82.0	10.61	8.729		
3,200.0	3,193.1	3,193.1	3,193.1	5.8	5.5	-179.59	0.0	-30.1	115.1	104.2	10.90	10.560		
3,300.0	3,289.6	3,289.6	3,289.6	6.1	5.7	-179.67	0.0	-30.1	141.0	129.8	11.18	12.611		
3,400.0	3,385.3	3,385.3	3,385.3	6.5	5.9	-179.72	0.0	-30.1	170.3	158.8	11.45	14.870		
3,500.0	3,479.8	3,479.8	3,479.8	7.0	6.0	-179.76	0.0	-30.1	202.8	191.1	11.70	17.328		
3,600.0	3,573.5	3,566.9	3,566.9	7.5	6,2	-179.78	0.0	-31.0	238.8	226.8	12.01	19.888		
3,700.0	3,667.2	3,649.9	3,649.8	8.0	6.3	-179.76	0.2	-34.7	278.1	265.7	12.33	22.560		
3,800.0	3,760.8	3,730.5	3,730.2	8.5	6.5	-179.71	0.4	-41.1	320.4	307.8	12.64	25.353		
3,900.0	3,854.4	3,808.5	3,807.7	9.0	6.6	-179.64	0.7	-49.8	365.7	352.8	12.95	28.252		
4,000.0	3,948.1	3,884.0	3,882.4	9.6	6.8	-179.57	4.1	-60.6	413.9	400.6	13.25	31.240		
4 400 -	4 044 7	20560	2.054.4	40.0		470.40	4.0	70.0	40.4.7	151.0	40.55	24.007		
4,100.0	4,041.7 4,135.4	3,956.8 4,027.1	3,954.1 4,022.9	10.2 10.8	6.9 7.1	-179.49 -179.42	1.6 2.1	-73.3 -87.6	464.7	451.2	13.55	34.307 37.438		
4,200.0 4,300.0	4,135.4 4,229.0	4,027.1 4,100.0	4,022.9	10.8	7.1 7.3	-179.42 -179.34	2.1 2.7	-87.6 -104.5	518.1 573.9	504.2 559.7	13.84 14.13	37.438 40.602		
4,400.0		4,159.9	4,053.6	12.0	7.5	-179.28	3.3	-104.3	631.9	617.4	14.13	43.855		
4,500.0	4,416.3	4,222.5	4,211.7	12.6	7.7	-179.21	3.9	-137.8	692.0	677.3	14.69	47.122		
.,000.0	.,	,							502.0		55			
4,600.0	4,510.0	4,282.7	4,269.0	13.2	7.9	-179.15	4.6	-156.3	754.2	739.2	14.96	50.417		
4,700.0	4,603.6	4,347.4	4,330.0	13.9	8.1	-179.08	5.4	-177.6	818.2	802.9	15.24	53.690		
4,800.0	4,697.3	4,423.9	4,402.1	14.5	8.4	-179.01	6.3	-203.2	882.6	867.0	15.54	56.804		
4,900.0	4,790.7	4,500.1	4,473.9	15.1	8.7	153.04	7.2	-228.7	946.8	930.7	16.02	59.117		
5,000.0	4,881.8	4,574.3	4,543.8	15.7	9.1	127.56	8.1	-253.5	1,009.7	992.7	16.98	59.457		
5,100.0	4,967.9	4,644.0	4,609.5	16.3	9.4	110.57	0.6	-276.9	1,070.6	1,052.4	18.19	- 58.866		

Company:

EnCana Oil & Gas (USA) Inc

Project:

San Juan County, NM S24-T24N-R10W

Reference Site:

0.0usft

Site Error: Reference Well: Good Times E24-2410 02H

Well Error: Reference Wellbore

0.0usft Reference Design: Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Good Times E24-2410 02H 16' KB @ 6936.0usft (Aztec) 16' KB @ 6936.0usft (Aztec)

North Reference:

True

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Output errors are at Database:

USA EDM 5000 Multi Users DB

Offset TVD Reference:

Offset Datum

Offset De	sign	S24-T2	4N-R10W	- Good Tin	nes E24-2	2410 01H - H	lz - Plan #1						Offset Site Error:	0.0 u
Survey Progr	ram: 0-G	eolink MWD											Offset Well Error:	0.0 t
Refere	ence	Offse	et	Semi Major	Axis				Dista	ince				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,046.3	4,707.3	4,669.2	17.0	9.7	99.08	9.7	-298.1	1,129.0	1,109.6	19.39	58.218		
5,300.0	5,114.7	4,770.9	4,729.0	17.7	10.0	91.19	9.8	-319.3	1,184.8	1,164.4	20.42	58.014		

Company:

EnCana Oil & Gas (USA) Inc

Project:

San Juan County, NM S24-T24N-R10W

Reference Site:

0.0usft

Site Error: Good Times E24-2410 02H Reference Well:

Well Error:

0.0usft

Reference Wellbore Hz Reference Design: Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well Good Times E24-2410 02H 16' KB @ 6936.0usft (Aztec)

16' KB @ 6936.0usft (Aztec)

North Reference:

True

Survey Calculation Method:

Output errors are at

2.00 sigma

Minimum Curvature

Database:

USA EDM 5000 Multi Users DB

Offset TVD Reference:

Offset Datum

Offset Design		S25-T24N-R10W - Good Times P25-2410 01H - Hz - Plan #1											Offset Site Error:	0.0 usf
Survey Program: 0-Geolink MWD													ffset Well Error:	0.0 usf
Reference		Offset		Semi Major Axis										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between	Between	Total	Separation	Warning	
							+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Uncertainty Axis	Factor		
10,000.0	5,147.9	8,233.6	5,140.0	87.8	79.4	-58.74	-5,991.7	840.0	1,158.5	1,064.1	94.43	12.269		
10,100.0	5,145.4	8,234.5	5,140.0	89.5	79.5	-56.40	-5,991.7	839.1	1,058.5	964.8	93.77	11,288		
10,200.0	5,143.0	8,235.4	5,140.0	91.3	79.5	-53.72	-5,991.7	838.2	958.5	866.0	92.57	10.354		
10,300.0	5,140.6	8,236.4	5,140.0	93.0	79.5	-50.66	-5,991.7	837.2	858.5	767.8	90.69	9.467		
10,363.9	5,139.0	8,237.0	5,140.0	94.1	79.5	-48.47	-5,991.7	836.6	794.6	705.6	89.04	8.924 CC, ES	S. SF	

Company:

EnCana Oil & Gas (USA) Inc

Project:

San Juan County, NM S24-T24N-R10W

Reference Site:

0.0usft

Site Error: Reference Well:

Good Times E24-2410 02H

Well Error: Reference Wellbore Reference Design:

0.0usft

Hz Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Good Times E24-2410 02H 16' KB @ 6936.0usft (Aztec) 16' KB @ 6936.0usft (Aztec)

North Reference: **Survey Calculation Method:**

Minimum Curvature

True

Output errors are at

2.00 sigma

Database:

USA EDM 5000 Multi Users DB

Offset TVD Reference:

Offset Datum

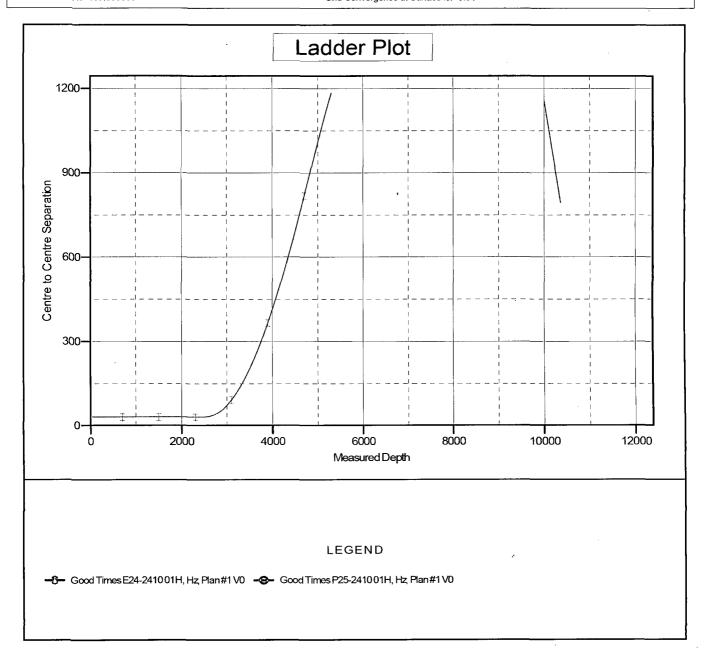
Reference Depths are relative to 16' KB @ 6936.0usft (Aztec)

Offset Depths are relative to Offset Datum Central Meridian is -107.833333 °

Coordinates are relative to: Good Times E24-2410 02H

Coordinate System is US State Plane 1983, New Mexico Western Zone

Grid Convergence at Surface is: -0.01°



SWNW Section 24, T24N, R10W

2402 FNL and 1168 FWL

BHL: SENW Section 25, T24N, R10W

2314 FNL and 2010 FWL

San Juan County, New Mexico

Lease Number: NM 25842 & NM 5991

stockpiled topsoil will be free of brush and tree limbs, trunks and root balls, but may include chipped or mulched material so long as it is incorporated into the topsoil stockpile.

Topsoil will be stockpiled separate from subsoil with a noticeable gap left between the stockpiles. Vehicle/equipment traffic will be prevented from crossing topsoil stockpiles.

Topsoil will not be stripped when soils are moisture-saturated or frozen below the stripping depth.

If the location becomes prone to wind or water erosion, Encana will take appropriate measures to prevent topsoil loss from wind. Such measures may include using tackifiers or water to wet the topsoil stockpile so that a crust is created across the exposed soil to prevent soil loss.

3. All construction materials for the well pad will consist of native borrow and subsoil accumulated during well pad construction. If additional fill or surfacing material is required, it will be obtained from existing permitted or private sources and will be hauled in by trucks over existing access roads.

The maximum cut will be approximately 10.9 feet on the corner 2 and the maximum fill will be approximately 11.5 feet on the corner 5.

- 4. As determined during the onsite on June 17, 2014 the following best management practices will be implemented:
 - a. Water will be diverted around the pad above the cut from corner 6 toward corner 5 and above the cut from corner 6 toward corner 2 and toward corner 3.
 - b. One silt trap will be constructed near STA 4+62 with an overflow pipe.
- 5. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and dozer. Construction for the access road and well pad will take approximately 2 to 4 weeks.

C. Pipeline

An initial Standard SF-299 Application for authorization to construct, operate, maintain and terminate a 2281 foot, up to 6-inch outside diameter, buried steel well connect pipeline that was submitted to the Bureau of Land Management on May 30, 2014.

7. METHODS FOR HANDLING WASTE

A. A Cuttings

- A closed-loop system will be used. Cuttings will be moved through a shaker system on the drill rig that separates drilling fluids from the cuttings. Cuttings will be stored onsite in aboveground storage tanks. Cuttings will be pulled from the storage tanks, mixed with saw dust or similar absorbent material, and disposed of at the Envirotech, Inc. and/or Industrial Ecosystem, Inc. waste disposal facilities.
- 2. The closed-loop system storage tanks will be adequately sized to ensure confinement of all fluids and will provide sufficient freeboard to prevent uncontrolled releases.
- 3. A 20-mil liner will be installed under tanks, pumps, ancillary facilities, and truck loading/unloading areas associated with the closed-loop system.

SHL: SWNW Section 24, T24N, R10W

2402 FNL and 1168 FWL

BHL: SENW Section 25, T24N, R10W

2314 FNL and 2010 FWL San Juan County, New Mexico

Lease Number: NM 25842 & NM 5991

B. Drilling Fluids

- A closed-loop system will be used. Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical. Residual fluids will be vacuumed from the storage tanks and disposed of at Basin Disposal, Inc. and/or Industrial Ecosystem, Inc. waste disposal facilities.
- 2. The closed-loop system storage tanks will be adequately sized to ensure confinement of all fluids and will provide sufficient freeboard to prevent uncontrolled releases.
- 3. The closed-loop system storage tanks will be placed in bermed secondary containment sized to accommodate a minimum of 110 percent of the volume of the largest storage tank.
- 4. A 20-mil liner will be installed under tanks, pumps, ancillary facilities, and truck loading/unloading areas associated with the closed-loop system.

C. Flowback Water

- 1. The water-based solution that flows back to the surface during and after completion operations will be placed in storage tanks on the location.
- 2. Flowback water will be confined to a storage tank for a period not to exceed 90 days after initial production and will be disposed of at Basin Disposal, Inc. and/or Industrial Ecosystem, Inc. waste disposal facilities.
- D. Spills any spills of non-freshwater fluids will be immediately cleaned up and removed to an approved disposal site.
- E. Sewage self-contained, chemical toilets will be provided for human waste disposal. The toilet holding tanks will be pumped, as needed, and the contents thereof disposed of in an approved sewage disposal facility. The toilets will be onsite during all operations.
- F. Garbage and other waste material garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash container during drilling and completion operations. The accumulated trash will be removed, as needed, and will be disposed of at an authorized sanitary landfill. No trash will be buried or burned on location.
- G. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash container will be cleaned up and removed from the well location.
- H. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing or completing of this well.
- I. No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

8. ANCILLARY FACILITIES

ENCANA OIL & GAS (USA) INC.

GOOD TIMES E24-2410 #02H
2402' FNL & 1168' FWL
LOCATED IN THE SW/4 NW/4 OF SECTION 24
T24N, R10W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO
2,038' +/- OF NEW ACCESS ACROSS BLM LANDS

DIRECTIONS

- 1) FROM THE INTERSECTION OF HWY 64 & HWY 550 IN BLOOMFIELD, NEW MEXICO, TRAVEL SOUTH ON HWY 550 28.3 MILES TO HWY 57.
- 2) TURN RIGHT (SOUTHWEST) ON HWY 57 AND TRAVEL 5.0 MILES TO NEW ACCESS ROAD ON THE LEFT (EAST).
- 3) TURN LEFT (EAST) ON NEW ACCESS ROAD AND TRAVEL 0.4 MILES TO THE WELL FLAG FOR THE PROPOSED E24-2410 WELL PAD
- 4) WELL FLAG LOCATED AT: LATITUDE: 36.300153° N, LONGITUDE: 107.852973° W (NAD 83)

