

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 Enmana, Well Name and Number Good Times E24 2410 #01H

API# 30-045-35597, Section 24, Township 24 N/S, Range 10 E/W

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
- 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.

Charlie Kern
NMOCD Approved by Signature

2-5-2015
Date
RC

RECEIVED

Form 3160-6 (August 2007)

FEB 02 2015 UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SEP 19 2014

FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

Form fields including: 1a. Type of work: [X] DRILL [] REENTER; 1b. Type of Well: [X] Oil Well [] Gas Well [] Other [X] Single Zone [] Multiple Zone; 2. Name of Operator: Encana Oil & Gas (USA) Inc.; 3a. Address: 370 17th Street, Suite 1700 Denver, CO 80202; 3b. Phone No.: 720-876-3533; 4. Location of Well: At surface 2402' FNL and 1138' FWL Section 24, T24N, R10W SWNW; At proposed prod. zone 2316' FNL and 660' FWL Section 25, T24N, R10W SWNW; 14. Distance in miles and direction from nearest town or post office: +/- 33.7 miles southeast of the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM; 15. Distance from proposed location to nearest property or lease line, ft. BHL is 660' from west lease line Section 25, T24N, R10W; 16. No. of acres in lease: 320 ac. NM 5991- 640 AC.; 17. Spacing Unit dedicated to this well: 318.30 acres 320.0; 18. Distance from proposed location to nearest well, drilling, completed. Good Times Unit E24-24 02H is +/-30' E from SHL; 19. Proposed Depth: 5132.7' TVD/ 10293.3' MD; 20. BLM/BIA Bond No. on file: COB-000235; 21. Elevations: 6919.8' GL, 6935.8' KB; 22. Approximate date work will start: 03/17/2015; 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:

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

25. Signature: [Signature] Name (Printed/Typed): Katie Wegner Date: 9/18/14 Title: Regulatory Analyst

Approved by (Signature): [Signature] Name (Printed/Typed): Office: FFO Date: 1/29/14 Title: AEM

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. Conditions of approval, if any, are attached.

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 its jurisdiction.

(Continued on page 2) DRILLING OPERATIONS 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

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

NMOCDA

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8170
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & 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 30-045-35597		² Pool Code 97232		³ Pool Name BASIN MANCOS	
⁴ Property Code 314186		⁵ Property Name GOOD TIMES E24-2410			⁶ Well Number 01H
⁷ OGRID No. 282327		⁸ Operator Name ENCANA OIL & GAS (USA) INC.			⁹ Elevation 6919.8'

¹⁰ Surface Location

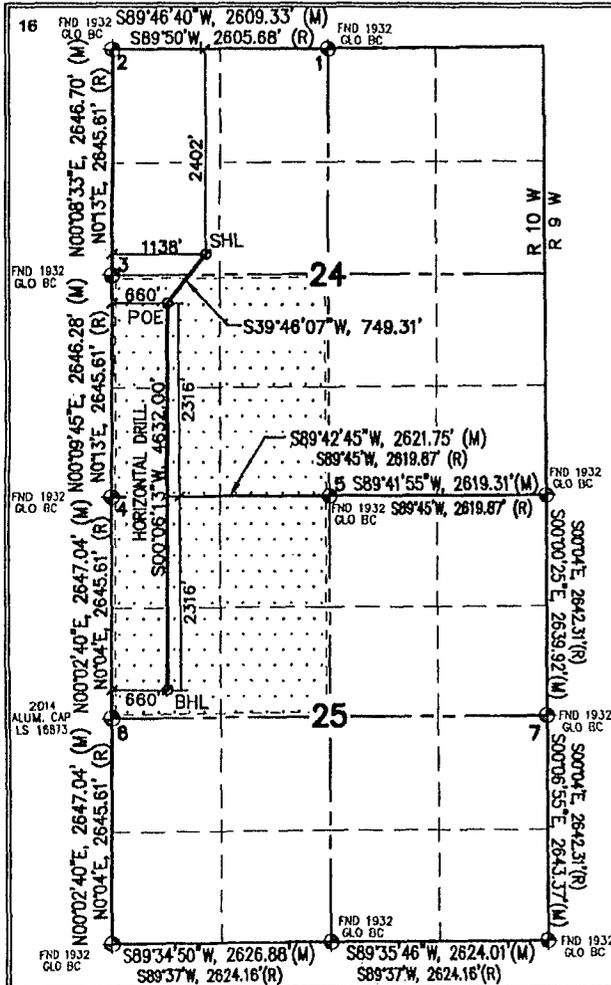
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
E	24	24N	10W		2402	NORTH	1138	WEST	SAN JUAN

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
E	25	24N	10W		2316	NORTH	660	WEST	SAN JUAN

¹² Dedicated Acres 318.30 ACRES 350.0		PROJECT AREA SW/4 SECTION 24 NW/4 SECTION 25		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



E24-2410 01H WELL
SHL (WELL FLAG)
LAT. 38.300153 N (NAD83)
LONG. 107.853075 W (NAD83)
LAT. 36.300142 N (NAD27)
LONG. 107.852457 W (NAD27)
POE (POINT OF ENTRY)
LAT. 36.298572 N (NAD83)
LONG. 107.854701 W (NAD83)
LAT. 36.298560 N (NAD27)
LONG. 107.854084 W (NAD27)
BHL (BOTTOM HOLE LOCATION)
LAT. 36.285852 N (NAD83)
LONG. 107.854733 W (NAD83)
LAT. 36.285841 N (NAD27)
LONG. 107.854116 W (NAD27)

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 9/18/14
Signature Date
Katie Wegner
Printed Name
Kathryn.Wegner@encana.com
E-mail Address

SECTION CORNERS
1 LAT. 38.308764 N (NAD83)
LONG. 107.848080 W (NAD83)
LAT. 36.308753 N (NAD27)
LONG. 107.847443 W (NAD27)
2 LAT. 36.308738 N (NAD83)
LONG. 107.858913 W (NAD83)
LAT. 36.308727 N (NAD27)
LONG. 107.856295 W (NAD27)
3 LAT. 36.289470 N (NAD83)
LONG. 107.856937 W (NAD83)
LAT. 36.299459 N (NAD27)
LONG. 107.856319 W (NAD27)
4 LAT. 36.292203 N (NAD83)
LONG. 107.856964 W (NAD83)
LAT. 36.292192 N (NAD27)
LONG. 107.856347 W (NAD27)
5 LAT. 36.292238 N (NAD83)
LONG. 107.848071 W (NAD83)
LAT. 36.292226 N (NAD27)
LONG. 107.847454 W (NAD27)
6 LAT. 36.284935 N (NAD83)
LONG. 107.856972 W (NAD83)
LAT. 36.284923 N (NAD27)
LONG. 107.856355 W (NAD27)
7 LAT. 36.285024 N (NAD83)
LONG. 107.839188 W (NAD83)
LAT. 36.285012 N (NAD27)
LONG. 107.838572 W (NAD27)

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:
Richard L. Mulliken
RICHARD L. MULLIKEN
NEW MEXICO
16873
7-8-14
PROFESSIONAL SURVEYOR
RICHARD L. MULLIKEN
Certificate Number 16873

Good Times E24-2410 01H
 SHL: 2402'FNL & 1138'FWL Sec 24 24N10W
 BHL: 2316'FNL & 660'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	4,747
Gallup Fn.	5,022
Base Gallup	5,350

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	4,747
Oil/Gas	Gallup Fn.	5,022

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

Good Times E24-2410 01H

SHL: 2402'FNL & 1138'FWL Sec 24 24N10W

BHL: 2316'FNL & 660'FWL Sec 25 24N10W

San Juan, New Mexico

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.
- 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 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'-5272'	8 3/4"	7"	26#	J55, LTC New
Production Liner	5172'-10293'	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.

Good Times E24-2410 01H
SHL: 2402'FNL & 1138'FWL Sec 24 24N10W
BHL: 2316'FNL & 660'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 (MD)	Cement Volume (sacks)	Cement Type & Yield	Designed TOC	Centralizers
Conductor	0'-60'	100 sks	Type I Neat 16 ppg	Surface	None
Surface	0'-500'	276 sks	Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water	Surface	1 per joint on bottom 3 joints
Intermediate	0'-5272'	100% open hole excess Stage 1 Lead: 698 sks Stage 1 Tail: 532 sks	Lead: PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuft/sk Tail: Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuft/sk	Surface	1 every 3 joints through water bearing zones
Production Liner	5172'- 10293'	50% OH excess Stage 1 Blend Total: 279sks	Blend: Premium Lite High Strength FM + 0.7% bwoc R-3 + 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	Liner Hanger	N/A

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	5133'/10293'	Gallup

Good Times E24-2410 01H
 SHL: 2402'FNL & 1138'FWL Sec 24 24N10W
 BHL: 2316'FNL & 660'FWL Sec 25 24N10W
 San Juan, New Mexico

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	8.3-9.2	38-100	4-28
12 1/4"	0'-500'/500'	Fresh Water	8.3-10	60-70	NC
8 3/4"	500'/500'-5135'/5272'	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)
6 1/8"	5135'/5272'- 5133'/10293'	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 +/- 2462 psi based on a 9.0 ppg at 5260' 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 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.

LOC: 2402'FNL & 1138'FWL Sec 24 24N10W		Encana Natural Gas				ENG: Michael Sanch 9/18/14		
County: San Juan		WELL SUMMARY				RIG: Unassigned		
WELL: Good Times E24-2410 01H						GLE: 6920		
						RKBE: 6936		
MWD LWD	OPEN HOLE LOGGING	FORM	DEPTH		HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION
			TVD	MD				
			60	60'		16" 42.09# 100sx Type I Neat 16.0ppg cmt	Fresh wtr 8.3-9.2	
Multi-Well pad take survey every stand and run anti- collision report prior to spud	None	San Jose Fn. Nacimiento Fn. 9 5/8" Csg	0 surface 500			9 5/8" 36ppf J55 STC TOC Surface with 100% OH Excess: 276 sks Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water.	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	803 963 1,275 1,591 1,699 2,328 3,084 3,967 4,199			7" 26ppf J55 LTC TOC @ surface (100% OH excess - 70% Lead 30% Tail) Stage 1 Total: 1230sks Stage 1 Lead: 698 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 onsite	KOP Mancos Silt Gallup Fn. 7" Csg	3,500 4,747 5,022 5,135	3,500 5,272'				
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	Horizontal Target TD Base Gallup	5,260 5,133 5,350	10,293		100' overlap at liner top 5022' Drilled Lateral		Horz Inc/TVD 91.4deg/5260ft TD = 10293.3 MD
MWD Gamma Directional						4 1/2" 11.6ppf SB80 LTC TOC @ hanger (50% OH excess) Stage 1 Total: 279sks Stage 1 Blend: 279 sks Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwoc 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.	WBM 8.3-10	

NOTES:

- 1) Drill with 26" bit to 60', set 16" 42.09ppf 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) Start curve at 10deg/100' build rate
- 6) Drill to csg point of 5272' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at -90 deg, drill lateral to 10293' run 4 1/2 inch cemented liner



Boomerang Tube LLC

CASING (OR) TUBING DESCRIPTION AND PERFORMANCE PROPERTIES

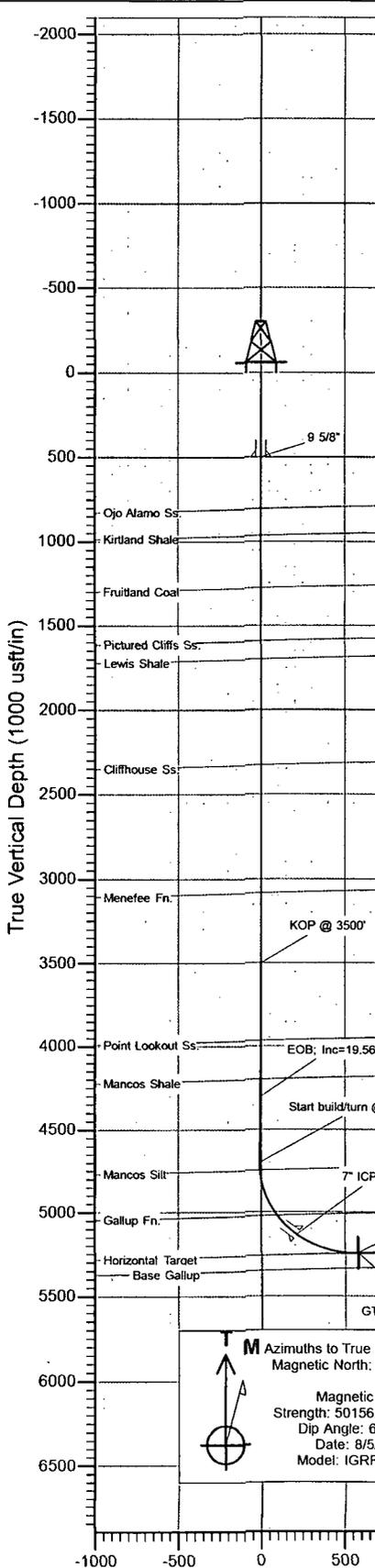
Pipe Outside Diameter (ins)	_____	4.500
Pipe Wall Thickness (ins)	_____	0.250
Nominal Weight Per Foot (lbs)	_____	11.60
Thread Name	_____	Long Thread CSG
Grade Name	_____	SB-80
Pipe Minimum Yield (psi)	_____	80,000
Pipe Minimum Ultimate (psi)	_____	90,000
Coupling Minimum Yield (psi)	_____	80,000
Coupling 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

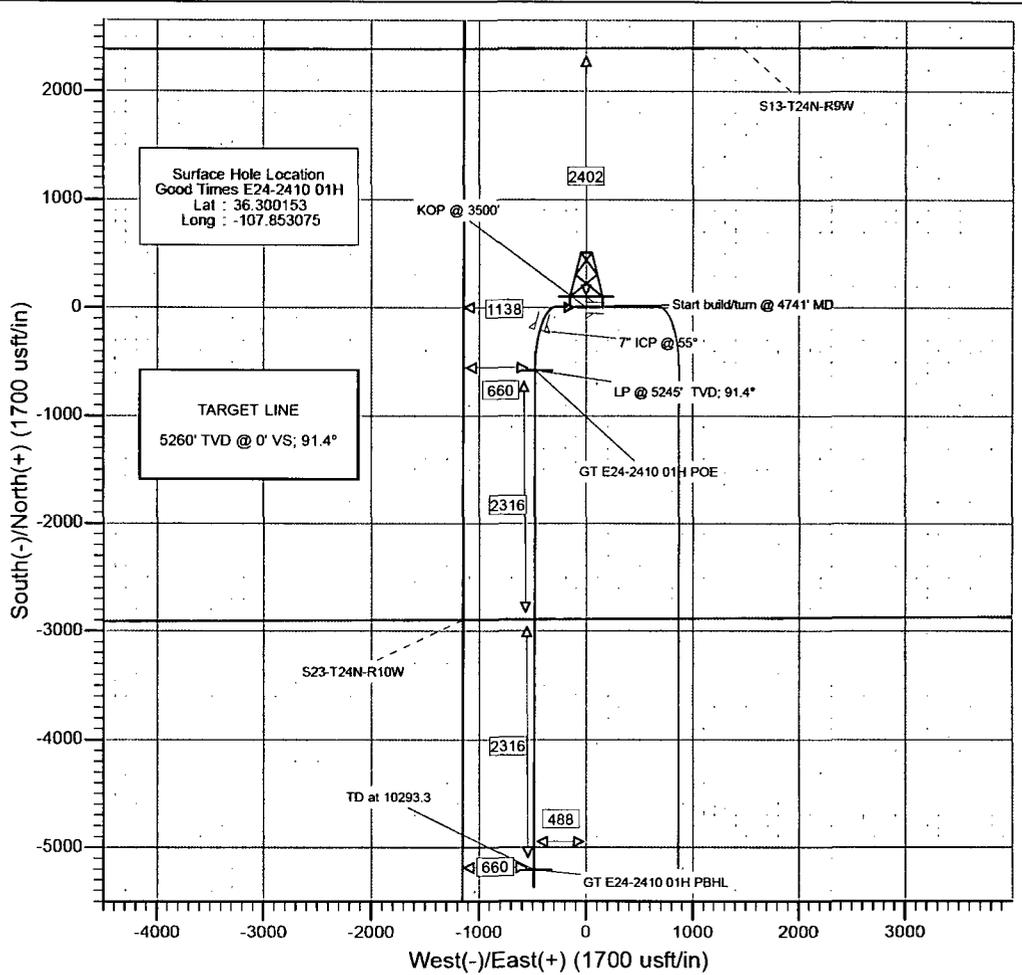
API RELATED VALUES and INTERMEDIATE CALCULATION RESULTS

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



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	4320.6	19.56	272.08	4304.8	5.0	-138.6	2.38	272.08	-4.8	
4	4741.7	19.56	272.08	4701.5	10.2	-279.5	0.00	0.00	-9.6	
5	5661.5	91.40	180.12	5245.9	-575.5	-479.1	10.00	-91.38	576.5	GT E24-2410 01H POE
6	10293.3	91.40	180.12	5132.7	-5205.9	-488.6	0.00	0.00	5206.9	GT E24-2410 01H PBHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
GT E24-2410 01H PBHL	-5205.9	-488.6	1923350.20	2716784.84	36.285852	-107.854733
GT E24-2410 01H POE	-575.5	-479.1	1927980.60	2716795.29	36.298572	-107.854701

CASING DETAILS

TVD	MD	Name
500.0	500.0	9 5/8"
5134.5	5271.6	7" ICP @ 55°

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
803.0	803.0	Ojo Alamo Ss.
963.0	963.0	Kirtland Shale
1275.0	1275.0	Fruitland Coal
1591.0	1591.0	Pictured Cliffs Ss.
1699.0	1699.0	Lewis Shale
2328.0	2328.0	Cliffhouse Ss.
3084.0	3084.0	Menefee Fn.
3967.0	3970.0	Point Lookout Ss.
4199.1	4209.3	Mancos Shale
4747.2	4790.2	Mancos Silt
5019.7	5101.5	Gallup Fn.

Plan #1
 Good Times E24-2410 01H
 14xxx; LR
 16' KB @ 6936.0usft (Aztec)
 Ground Elevation @ 6920.0
 North American Datum 1983
 Well Good Times E24-2410 01H, True North

M Azimuths to True North
 Magnetic North: 9.50°
 Magnetic Field
 Strength: 50156.7snT
 Dip Angle: 62.99°
 Date: 8/5/2014
 Model: IGRF2010

Vertical Section at 180.12° (1000 usft/in)

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: San Juan County, NM
 Site: S24-T24N-R10W
 Well: Good Times E24-2410 01H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
 TVD Reference: 16' KB @ 6936.0usft (Aztec)
 MD Reference: 16' KB @ 6936.0usft (Aztec)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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	S24-T24N-R10W				
Site Position:		Northing:	1,928,556.02 usft	Latitude:	36.300153
From:	Lat/Long	Easting:	2,717,274.54 usft	Longitude:	-107.853075
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-0.01 °

Well	Good Times E24-2410 01H					
Well Position	+N/-S	0.0 usft	Northing:	1,928,556.02 usft	Latitude:	36.300153
	+E/-W	0.0 usft	Easting:	2,717,274.54 usft	Longitude:	-107.853075
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft	Ground Level:	6,920.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/5/2014	9.50	62.99	50,157

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.12	

Plan 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	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,320.6	19.56	272.08	4,304.8	5.0	-138.6	2.38	2.38	0.00	272.08	
4,741.7	19.56	272.08	4,701.5	10.2	-279.5	0.00	0.00	0.00	0.00	
5,661.5	91.40	180.12	5,245.9	-575.5	-479.1	10.00	7.81	-10.00	-91.38	GT E24-2410 01H PC
10,293.3	91.40	180.12	5,132.7	-5,205.9	-488.6	0.00	0.00	0.00	0.00	GT E24-2410 01H PB

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: San Juan County, NM
 Site: S24-T24N-R10W
 Well: Good Times E24-2410 01H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
 TVD Reference: 16' KB @ 6936.0usft (Aztec)
 MD Reference: 16' KB @ 6936.0usft (Aztec)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

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	
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	
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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,591.0	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	
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	
2,328.0	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	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	
3,084.0	0.00	0.00	3,084.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 3500'
3,600.0	2.38	272.08	3,600.0	0.1	-2.1	-0.1	2.38	2.38	
3,700.0	4.77	272.08	3,699.8	0.3	-8.3	-0.3	2.38	2.38	
3,800.0	7.15	272.08	3,799.2	0.7	-18.7	-0.6	2.38	2.38	
3,900.0	9.53	272.08	3,898.1	1.2	-33.2	-1.1	2.38	2.38	
3,970.0	11.20	272.08	3,967.0	1.7	-45.8	-1.6	2.38	2.38	Point Lookout Ss.
4,000.0	11.92	272.08	3,996.4	1.9	-51.8	-1.8	2.38	2.38	
4,100.0	14.30	272.08	4,093.8	2.7	-74.4	-2.6	2.38	2.38	
4,200.0	16.68	272.08	4,190.1	3.7	-101.1	-3.5	2.38	2.38	
4,209.3	16.91	272.08	4,199.1	3.8	-103.8	-3.6	2.38	2.38	Mancos Shale

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S24-T24N-R10W
Well: Good Times E24-2410 01H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
TVD Reference: 16' KB @ 6936.0usft (Aztec)
MD Reference: 16' KB @ 6936.0usft (Aztec)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

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
4,300.0	19.07	272.08	4,285.3	4.8	-131.8	-4.5	2.38	2.38	
4,320.6	19.56	272.08	4,304.8	5.0	-138.6	-4.8	2.38	2.38	EOB; Inc=19.56°
4,400.0	19.56	272.08	4,379.6	6.0	-165.2	-5.7	0.00	0.00	
4,500.0	19.56	272.08	4,473.8	7.2	-198.6	-6.8	0.00	0.00	
4,600.0	19.56	272.08	4,568.0	8.4	-232.1	-8.0	0.00	0.00	
4,700.0	19.56	272.08	4,662.3	9.7	-265.5	-9.1	0.00	0.00	
4,741.7	19.56	272.08	4,701.5	10.2	-279.5	-9.6	0.00	0.00	Start build/turn @ 4741' MD
4,790.2	20.01	257.79	4,747.2	8.7	-295.7	-8.1	10.00	0.94	Mancos Silt
4,800.0	20.24	255.01	4,756.4	7.9	-299.0	-7.3	10.00	2.31	
4,900.0	24.67	231.28	4,849.0	-9.7	-332.1	10.4	10.00	4.42	
5,000.0	31.61	215.87	4,937.2	-44.0	-363.8	44.8	10.00	6.94	
5,100.0	39.76	205.88	5,018.5	-94.2	-393.2	95.0	10.00	8.16	
5,101.5	39.90	205.76	5,019.7	-95.1	-393.6	95.9	10.00	8.53	Gallup Fn.
5,200.0	48.52	198.92	5,090.2	-158.5	-419.4	159.4	10.00	8.76	
5,271.6	55.00	195.02	5,134.5	-212.3	-435.7	213.2	10.00	9.04	7" ICP @ 55°
5,300.0	57.59	193.64	5,150.3	-235.2	-441.5	236.1	10.00	9.15	
5,400.0	66.85	189.35	5,196.8	-321.8	-459.0	322.8	10.00	9.25	
5,500.0	76.20	185.62	5,228.5	-415.7	-471.2	416.7	10.00	9.35	
5,600.0	85.61	182.18	5,244.3	-514.1	-477.9	515.1	10.00	9.41	
5,661.5	91.40	180.12	5,245.9	-575.5	-479.1	576.5	10.00	9.42	LP @ 5245' TVD; 91.4° - GT E24-2410 01H PC
5,700.0	91.40	180.12	5,245.0	-614.0	-479.2	615.0	0.00	0.00	
5,800.0	91.40	180.12	5,242.5	-714.0	-479.4	715.0	0.00	0.00	
5,900.0	91.40	180.12	5,240.1	-814.0	-479.6	815.0	0.00	0.00	
6,000.0	91.40	180.12	5,237.6	-914.0	-479.8	915.0	0.00	0.00	
6,100.0	91.40	180.12	5,235.2	-1,013.9	-480.0	1,014.9	0.00	0.00	
6,200.0	91.40	180.12	5,232.7	-1,113.9	-480.2	1,114.9	0.00	0.00	
6,300.0	91.40	180.12	5,230.3	-1,213.9	-480.4	1,214.9	0.00	0.00	
6,400.0	91.40	180.12	5,227.9	-1,313.8	-480.6	1,314.8	0.00	0.00	
6,500.0	91.40	180.12	5,225.4	-1,413.8	-480.9	1,414.8	0.00	0.00	
6,600.0	91.40	180.12	5,223.0	-1,513.8	-481.1	1,514.8	0.00	0.00	
6,700.0	91.40	180.12	5,220.5	-1,613.7	-481.3	1,614.7	0.00	0.00	
6,800.0	91.40	180.12	5,218.1	-1,713.7	-481.5	1,714.7	0.00	0.00	
6,900.0	91.40	180.12	5,215.6	-1,813.7	-481.7	1,814.7	0.00	0.00	
7,000.0	91.40	180.12	5,213.2	-1,913.7	-481.9	1,914.7	0.00	0.00	
7,100.0	91.40	180.12	5,210.7	-2,013.6	-482.1	2,014.6	0.00	0.00	
7,200.0	91.40	180.12	5,208.3	-2,113.6	-482.3	2,114.6	0.00	0.00	
7,300.0	91.40	180.12	5,205.9	-2,213.6	-482.5	2,214.6	0.00	0.00	
7,400.0	91.40	180.12	5,203.4	-2,313.5	-482.7	2,314.5	0.00	0.00	
7,500.0	91.40	180.12	5,201.0	-2,413.5	-482.9	2,414.5	0.00	0.00	
7,600.0	91.40	180.12	5,198.5	-2,513.5	-483.1	2,514.5	0.00	0.00	
7,700.0	91.40	180.12	5,196.1	-2,613.4	-483.3	2,614.4	0.00	0.00	
7,800.0	91.40	180.12	5,193.6	-2,713.4	-483.5	2,714.4	0.00	0.00	
7,900.0	91.40	180.12	5,191.2	-2,813.4	-483.7	2,814.4	0.00	0.00	
8,000.0	91.40	180.12	5,188.7	-2,913.3	-483.9	2,914.4	0.00	0.00	
8,100.0	91.40	180.12	5,186.3	-3,013.3	-484.1	3,014.3	0.00	0.00	
8,200.0	91.40	180.12	5,183.9	-3,113.3	-484.3	3,114.3	0.00	0.00	
8,300.0	91.40	180.12	5,181.4	-3,213.3	-484.5	3,214.3	0.00	0.00	
8,400.0	91.40	180.12	5,179.0	-3,313.2	-484.8	3,314.2	0.00	0.00	
8,500.0	91.40	180.12	5,176.5	-3,413.2	-485.0	3,414.2	0.00	0.00	
8,600.0	91.40	180.12	5,174.1	-3,513.2	-485.2	3,514.2	0.00	0.00	
8,700.0	91.40	180.12	5,171.6	-3,613.1	-485.4	3,614.1	0.00	0.00	
8,800.0	91.40	180.12	5,169.2	-3,713.1	-485.6	3,714.1	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: San Juan County, NM
 Site: S24-T24N-R10W
 Well: Good Times E24-2410 01H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
 TVD Reference: 16' KB @ 6936.0usft (Aztec)
 MD Reference: 16' KB @ 6936.0usft (Aztec)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey									
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	5,166.8	-3,813.1	-485.8	3,814.1	0.00	0.00	
9,000.0	91.40	180.12	5,164.3	-3,913.0	-486.0	3,914.1	0.00	0.00	
9,100.0	91.40	180.12	5,161.9	-4,013.0	-486.2	4,014.0	0.00	0.00	
9,200.0	91.40	180.12	5,159.4	-4,113.0	-486.4	4,114.0	0.00	0.00	
9,300.0	91.40	180.12	5,157.0	-4,213.0	-486.6	4,214.0	0.00	0.00	
9,400.0	91.40	180.12	5,154.5	-4,312.9	-486.8	4,313.9	0.00	0.00	
9,500.0	91.40	180.12	5,152.1	-4,412.9	-487.0	4,413.9	0.00	0.00	
9,600.0	91.40	180.12	5,149.6	-4,512.9	-487.2	4,513.9	0.00	0.00	
9,700.0	91.40	180.12	5,147.2	-4,612.8	-487.4	4,613.8	0.00	0.00	
9,800.0	91.40	180.12	5,144.8	-4,712.8	-487.6	4,713.8	0.00	0.00	
9,900.0	91.40	180.12	5,142.3	-4,812.8	-487.8	4,813.8	0.00	0.00	
10,000.0	91.40	180.12	5,139.9	-4,912.7	-488.0	4,913.8	0.00	0.00	
10,100.0	91.40	180.12	5,137.4	-5,012.7	-488.2	5,013.7	0.00	0.00	
10,200.0	91.40	180.12	5,135.0	-5,112.7	-488.4	5,113.7	0.00	0.00	
10,293.3	91.40	180.12	5,132.7	-5,205.9	-488.6	5,206.9	0.00	0.00	TD at 10293.3 - GT E24-2410 01H PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
GT E24-2410 01H PBHL - hit/miss target - Shape - Point	0.00	0.00	5,132.7	-5,205.9	-488.6	1,923,350.20	2,716,784.84	36.285852	-107.854733
GT E24-2410 01H POE - plan hits target center - Point	0.00	0.00	5,245.9	-575.5	-479.1	1,927,980.60	2,716,795.29	36.298572	-107.854701

500.0	500.0	9 5/8"	0	0
5,271.6	5,134.5	7" ICP @ 55°	0	0

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	Kirtland Shale		-1.40	180.12
1,275.0	1,275.0	Fruiland 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
3,084.0	3,084.0	Menefee Fn.		-1.40	180.12
3,970.0	3,967.0	Point Lookout Ss.		-1.40	180.12
4,209.3	4,199.0	Mancos Shale		-1.40	180.12
4,790.2	4,747.0	Mancos Sill		-1.40	180.12
5,101.5	5,022.0	Gallup Fn.		-1.40	180.12

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S24-T24N-R10W
Well: Good Times E24-2410 01H
Wellbore: Hz
Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
TVD Reference: 16' KB @ 6936.0usft (Aztec)
MD Reference: 16' KB @ 6936.0usft (Aztec)
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,500.0	3,500.0	0.0	0.0	KOP @ 3500'
4,320.6	4,304.8	5.0	-138.6	EOB; Inc=19.56°
4,741.7	4,701.5	10.2	-279.5	Start build/turn @ 4741' MD
5,661.5	5,245.9	-575.5	-479.1	LP @ 5245' TVD; 91.4°
10,293.3	5,132.7	-5,205.9	-488.6	TD at 10293.3

EnCana Oil & Gas (USA) Inc

San Juan County, NM

S24-T24N-R10W

Good Times E24-2410 01H

Hz

Plan #1

Anticollision Report

06 August, 2014

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well Good Times E24-2410 01H
Project: San Juan County, NM	TVD Reference: 16' KB @ 6936.0usft (Aztec)
Reference Site: S24-T24N-R10W	MD Reference: 16' KB @ 6936.0usft (Aztec)
Site Error: 0.0usft	North Reference: True
Reference Well: Good Times E24-2410 01H	Survey Calculation Method: Minimum Curvature
Well Error: 0.0usft	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 100.0usft	Error Model: Systematic Ellipse
Depth Range: Unlimited	Scan Method: Closest Approach 3D
Results Limited by: Maximum center-center distance of 1,236.4usft	Error Surface: Elliptical Conic
Warning Levels Evaluated at: 2.00 Sigma	

Survey Tool Program		Date 8/6/2014
From (usft)	To (usft)	Survey (Wellbore)
0.0	10,293.3	Plan #1 (Hz)
		Tool Name
		Geolink MWD
		Description
		Geolink MWD

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S24-T24N-R10W						
Good Times E24-2410 02H - 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	10,293.3	9,586.5	795.9	697.4	8.081	CC, ES, SF

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S24-T24N-R10W
Site Error: 0.0usft
Reference Well: Good Times E24-2410 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
TVD Reference: 16' KB @ 6936.0usft (Aztec)
MD Reference: 16' KB @ 6936.0usft (Aztec)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: USA EDM 5000 Multi Users DB
Offset TVD Reference: Offset Datum

Offset Design S24-T24N-R10W - Good Times E24-2410 02H - Hz - Plan #1														Offset Site Error:	0.0 usft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
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	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	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	1,300.0	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	2.8	90.00	0.0	30.1	30.1	24.5	5.53	5.436			
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	90.00	0.0	30.1	30.1	24.2	5.88	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	23.8	6.23	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	2,300.0	2,300.0	4.0	4.0	90.00	0.0	30.1	30.1	22.1	7.97	3.770			
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	90.00	0.0	30.1	30.1	21.7	8.32	3.612			
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	90.00	0.0	30.1	30.1	21.4	8.67	3.466 CC, ES, SF			
2,600.0	2,600.0	2,598.9	2,598.9	4.5	4.5	89.92	0.0	31.8	31.8	22.8	9.02	3.524			
2,700.0	2,700.0	2,697.6	2,697.5	4.7	4.7	89.72	0.2	36.9	37.0	27.6	9.37	3.945			
2,800.0	2,800.0	2,795.8	2,795.3	4.9	4.9	89.49	0.4	45.3	45.6	35.8	9.72	4.685			
2,900.0	2,900.0	2,893.4	2,892.1	5.0	5.1	89.29	0.7	57.0	57.6	47.5	10.09	5.704			
3,000.0	3,000.0	2,990.0	2,987.6	5.2	5.3	89.12	1.1	71.8	72.9	62.4	10.47	6.961			
3,100.0	3,100.0	3,085.5	3,081.4	5.4	5.5	89.00	1.6	89.7	91.6	80.7	10.88	8.416			
3,200.0	3,200.0	3,179.7	3,173.3	5.6	5.8	88.90	2.1	110.3	113.5	102.2	11.32	10.027			
3,300.0	3,300.0	3,272.4	3,263.1	5.7	6.1	88.83	2.7	133.5	138.6	126.8	11.79	11.755			
3,400.0	3,400.0	3,363.5	3,350.5	5.9	6.4	88.78	3.4	159.2	166.7	154.4	12.29	13.561			
3,500.0	3,500.0	3,452.9	3,435.4	6.1	6.8	88.73	4.1	187.0	197.9	185.1	12.84	15.411			
3,600.0	3,600.0	3,540.7	3,517.9	6.3	7.2	176.59	4.9	216.9	233.9	221.5	12.39	18.880			
3,700.0	3,699.8	3,631.9	3,603.4	6.4	7.6	176.58	5.8	248.9	274.7	262.0	12.69	21.654			
3,800.0	3,799.2	3,721.4	3,687.2	6.6	8.1	176.60	6.6	280.3	319.3	306.4	12.97	24.628			
3,900.0	3,898.2	3,809.0	3,769.2	6.8	8.5	176.63	7.4	311.0	367.6	354.4	13.22	27.800			
4,000.0	3,996.4	3,894.5	3,849.3	7.0	9.0	176.67	8.2	341.0	419.5	406.0	13.46	31.167			
4,100.0	4,093.8	3,977.7	3,927.2	7.3	9.5	176.71	9.0	370.2	474.8	461.2	13.67	34.731			
4,200.0	4,190.1	4,058.6	4,003.0	7.6	10.0	176.74	9.7	398.5	533.6	519.7	13.86	38.491			
4,300.0	4,285.3	4,137.0	4,076.4	7.9	10.4	176.77	10.4	426.0	595.7	581.7	14.03	42.449			
4,400.0	4,379.6	4,213.6	4,148.1	8.3	10.9	176.87	11.1	452.9	660.0	645.7	14.30	46.146			
4,500.0	4,473.8	4,290.1	4,219.8	8.7	11.3	176.97	11.8	479.7	724.4	709.8	14.60	49.613			
4,600.0	4,568.0	4,366.6	4,291.4	9.2	11.8	177.06	12.5	506.5	788.7	773.8	14.90	52.941			
4,700.0	4,662.3	4,443.1	4,363.1	9.6	12.3	177.14	13.2	533.4	853.1	837.9	15.20	56.139			
4,800.0	4,756.4	4,519.6	4,434.6	10.1	12.7	-162.07	14.0	560.2	917.5	901.9	15.57	58.923			
4,900.0	4,849.0	4,594.5	4,504.8	10.6	13.2	-133.18	14.6	586.4	981.2	964.8	16.38	59.891			
5,000.0	4,937.3	4,665.7	4,571.5	11.1	13.6	-113.97	15.3	611.4	1,043.2	1,025.8	17.47	59.726			
5,100.0	5,018.5	4,731.0	4,632.6	11.7	14.0	-101.24	15.9	634.3	1,103.1	1,084.4	18.60	59.295			

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
Project: San Juan County, NM
Reference Site: S24-T24N-R10W
Site Error: 0.0usft
Reference Well: Good Times E24-2410 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
TVD Reference: 16' KB @ 6936.0usft (Aztec)
MD Reference: 16' KB @ 6936.0usft (Aztec)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: USA EDM 5000 Multi Users DB
Offset TVD Reference: Offset Datum

Offset Design S24-T24N-R10W - Good Times E24-2410 02H - Hz - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,090.2	4,788.4	4,686.4	12.4	14.4	-92.25	16.4	654.4	1,160.5	1,140.8	19.65	59.055		
5,300.0	5,150.3	4,851.2	4,745.2	13.2	14.8	-86.11	15.9	676.5	1,215.3	1,194.8	20.50	59.288		

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S24-T24N-R10W
Site Error: 0.0usft
Reference Well: Good Times E24-2410 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
TVD Reference: 16' KB @ 6936.0usft (Aztec)
MD Reference: 16' KB @ 6936.0usft (Aztec)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
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 usft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
9,900.0	5,142.3	9,582.8	5,135.3	86.6	112.3	-65.93	-6,001.4	-479.1	1,189.1	1,088.6	100.55	11.827		
10,000.0	5,139.9	9,583.8	5,135.3	88.4	112.3	-63.99	-6,001.4	-480.1	1,089.2	988.4	100.74	10.811		
10,100.0	5,137.4	9,584.7	5,135.3	90.1	112.3	-61.74	-6,001.4	-481.0	989.2	888.6	100.54	9.838		
10,200.0	5,135.0	9,585.7	5,135.3	91.8	112.3	-59.12	-6,001.4	-482.0	889.2	789.4	99.81	8.906		
10,293.3	5,132.7	9,586.5	5,135.3	93.5	112.4	-56.24	-6,001.4	-482.8	795.9	697.4	98.49	8.081	CC, ES, SF	

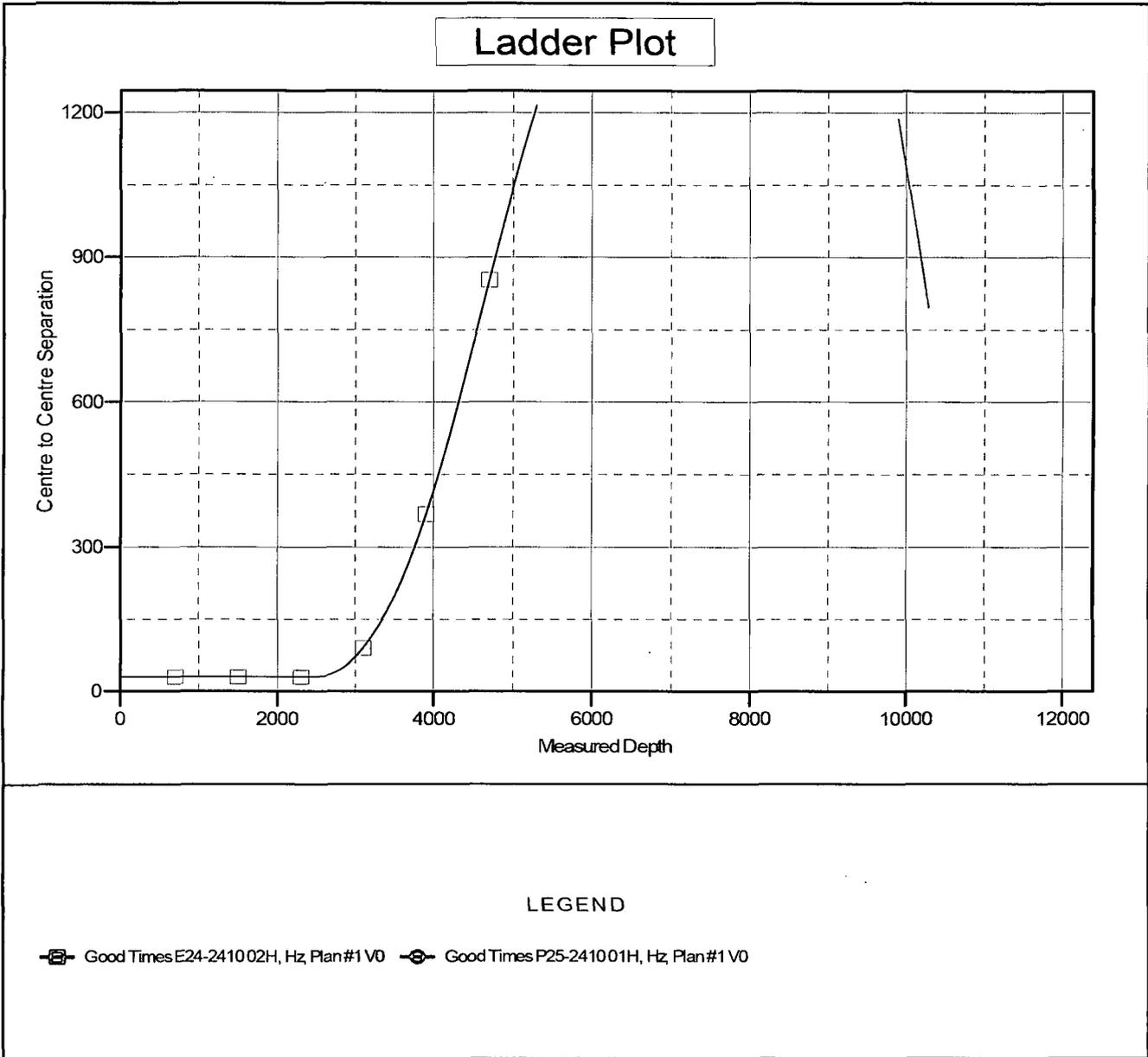
Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S24-T24N-R10W
Site Error: 0.0usft
Reference Well: Good Times E24-2410 01H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well Good Times E24-2410 01H
TVD Reference: 16' KB @ 6936.0usft (Aztec)
MD Reference: 16' KB @ 6936.0usft (Aztec)
North Reference: True
Survey Calculation Method: Minimum Curvature
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 01H
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: -0.01°



Good Times E24-2410 01H

**SHL: SWNW Section 24, T24N, R10W
2402' FNL and 1138' FWL**

**BHL: SWNW Section 25, T24N, R10W
2316' FNL and 660' 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. Cuttings

- ✓ 1. 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 above-ground 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.

Good Times E24-2410 01H

**SHL: SWNW Section 24, T24N, R10W
2402' FNL and 1138' FWL**

**BHL: SWNW Section 25, T24N, R10W
2316' FNL and 660' FWL**

San Juan County, New Mexico

Lease Number: NM 25842 & NM 5991

B. Drilling Fluids

1. 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 #01H
2402' FNL & 1138' 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: 107.853075° W (NAD 83)

WELLHEAD BLOWOUT CONTROL SYSTEM

encana

Well Name and Number:
Good Times E24-2410 01H

