

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: 9-18-15

Well information;

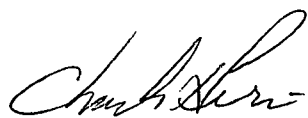
Operator Enlana, Well Name and Number Good Times N36 2410 #02 H

API# 30-045-35598, Section 36, 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.



NMOCD Approved by Signature

2-12-2015

Date KC

RECEIVED

FEB 06 2015

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
DISTRICT III

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NM 42059, ~~NM-23470~~

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA Agreement, Name and No.
Pending

8. Lease Name and Well No.
Good Times N36-2410 02H

9. API Well No.
30-045-35598

10. Field and Pool, or Exploratory
South Bisti Gallup

11. Sec., T. R. M. or Blk. and Survey or Area
Section 36, T24N, R10W NMPM

12. County or Parish
San Juan

13. State
NM

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ 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. (include area code)
720-876-3533

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface ^N 16' FSL and 1495' FWL Section 36, T24N, R10W

At proposed prod. zone ^N 330' FSL and 2105' FWL Section 1, T23N, R10W

14. Distance in miles and direction from nearest town or post office*
+/- 36.9 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 330' from south lease line Section 1, T23N, R10W (Also to nearest drig. unit line, if any)

16. No. of acres in lease
NM 42059- 2118.04 ac.
NM 23470- 40 ac.

17. Spacing Unit dedicated to this well
~~347.60~~ acres - W/2 of Section 1
319.16

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on-this-lease, ft. Good Times Unit N36-24 01H is +/-30 W from SHL

19. Proposed Depth
4726' TVD/9758' MD

20. BLM/BIA Bond No. on file
COB-000235

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6905'GL, 6921' KB

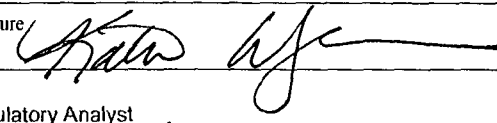
22. Approximate date work will start*
03/18/2015

23. Estimated duration
20 days

24. Attachments

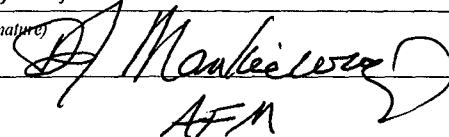
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

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 
Title
Regulatory Analyst

Name (Printed/Typed)
Katie Wegner

Date
9/18/14

Approved by (Signature) 
Title
AFM

Name (Printed/Typed)

Date
2/4/15

Office
FFO

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
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)

*(Instructions on page 2)

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

DRILLING OPERATIONS AUTHORIZED
ARE SUBJECT TO COMPLIANCE WITH
ATTACHED "GENERAL REQUIREMENTS"

NMOCD
N

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & 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

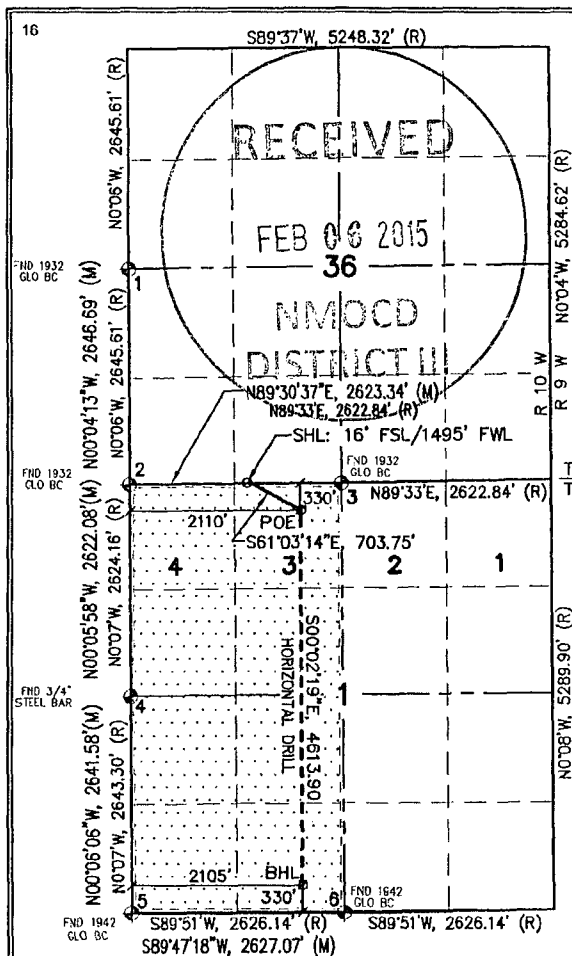
¹ API Number 30 045 35598		² Pool Code 5860		³ Pool Name SOUTH BISTI GALLUP	
⁴ Property Code 314188		⁵ Property Name GOOD TIMES N36-2410			⁶ Well Number 02H
⁷ OGRID No. 282327		⁸ Operator Name ENCANA OIL & GAS (USA) INC.			⁹ Elevation 6904.9'

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
N	36	24N	10W		16'	SOUTH	1495'	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
N	1	23N	10W		330'	SOUTH	2105'	WEST	SAN JUAN

¹² Dedicated Acres 319.16 C/A		PROJECT AREA		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
317.60 ACRES		W/2 SECTION 1				

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.



N36-2410 02H WELL
SHL (WELL FLAG)
LAT. 36.263211° N (NAD83)
LONG. 107.851887° W (NAD83)
LAT. 36.263200° N (NAD27)
LONG. 107.851270° W (NAD27)
POE (POINT OF ENTRY)
LAT. 36.262276° N (NAD83)
LONG. 107.849799° W (NAD83)
LAT. 36.262264° N (NAD27)
LONG. 107.849182° W (NAD27)
BHL (BOTTOM HOLE LOCATION)
LAT. 36.249606° N (NAD83)
LONG. 107.849793° W (NAD83)
LAT. 36.249594° N (NAD27)
LONG. 107.849176° W (NAD27)

SECTION CORNERS
1 LAT. 36.270401° N (NAD83)
LONG. 107.856965° W (NAD83)
LAT. 36.270390° N (NAD27)
LONG. 107.856348° W (NAD27)
2 LAT. 36.263134° N (NAD83)
LONG. 107.856955° W (NAD83)
LAT. 36.263122° N (NAD27)
LONG. 107.856338° W (NAD27)
3 LAT. 36.263193° N (NAD83)
LONG. 107.848061° W (NAD83)
LAT. 36.263182° N (NAD27)
LONG. 107.847444° W (NAD27)
4 LAT. 36.255933° N (NAD83)
LONG. 107.856942° W (NAD83)
LAT. 36.255921° N (NAD27)
LONG. 107.856324° W (NAD27)
5 LAT. 36.248679° N (NAD83)
LONG. 107.856927° W (NAD83)
LAT. 36.248667° N (NAD27)
LONG. 107.856310° W (NAD27)
6 LAT. 36.248704° N (NAD83)
LONG. 107.848021° W (NAD83)
LAT. 36.248692° N (NAD27)
LONG. 107.847404° 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.

Signature *Katie Wegner* Date **9/18/14**

Printed Name
Katie Wegner
E-mail Address
Katie.Wegner@encana.com

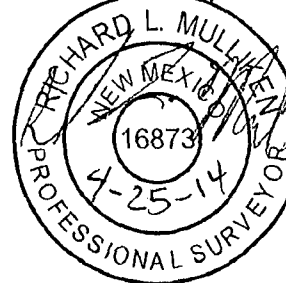
18 SURVEYOR CERTIFICATION

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 20, 2014

Date of Survey

Signature and Seal of Professional Surveyor:



RICHARD L. MULLIKEN

Certificate Number

16873

Good Times N36-2410 02H

SHL: 16' FSL & 1495' FWL Section 36, 24N10W

BHL: 330' FSL & 2105' FWL Section 1, 23N10W

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.	566
Kirtland Shale	718
Fruitland Coal	996
Pictured Cliffs Ss.	1,324
Lewis Shale	1,486
Cliffhouse Ss.	2,063
Menefee Fn.	2,616
Point Lookout Ss.	3,744
Mancos Shale	3,934
Mancos Silt	4,454
Gallup Fn.	4,750
Base Gallup	5,070

The referenced surface elevation is 6905', KB 6921'

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

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	996
Oil/Gas	Pictured Cliffs Ss.	1,324
Oil/Gas	Cliffhouse Ss.	2,063
Gas	Menefee Fn.	2,616
Oil/Gas	Point Lookout Ss.	3,744
Oil/Gas	Mancos Shale	3,934
Oil/Gas	Mancos Silt	4,454
Oil/Gas	Gallup Fn.	4,750

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

Good Times N36-2410 02H

SHL: 16' FSL & 1495' FWL Section 36, 24N10W

BHL: 330' FSL & 2105' FWL Section 1, 23N10W

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'-4792'	8 3/4"	7"	26#	J55, LTC New
Production Liner	4692'-9758'	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 N36-2410 02H

SHL: 16' FSL & 1495' FWL Section 36, 24N10W

BHL: 330' FSL & 2105' FWL Section 1, 23N10W

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'-4792'	100% open hole excess Stage 1 Lead: 630 sks Stage 1 Tail: 487 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	4692'- 9758'	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 3988'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	4726'/9758'	Gallup

Good Times N36-2410 02H

SHL: 16' FSL & 1495' FWL Section 36, 24N10W

BHL: 330' FSL & 2105' FWL Section 1, 23N10W

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'-4623'/4792'	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"	4623'/4792'- 4726'/9758'	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 +/- 2252 psi based on a 9.0 ppg at 4812' 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: 16' FSL & 1495' FWL Section 36, 24N10 County: San Juan WELL: Good Times N36-2410 02H			Encana Natural Gas WELL SUMMARY			ENG: 0 RIG: Aztec 950 GLE: 6905 RKBE: 6921			9/18/14
MWD LWD	OPEN HOLE LOGGING	FORM	DEPTH			HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION
			TVD	MD					
			60	60'		26	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.	0			12 1/4	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°
		Nacimiento Fn. 9 5/8" Csg	surface 500	500.00					
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	566 718 996 1,324 1,486 2,063 2,616 3,744 3,934			8 3/4	7" 26ppf J55 LTC TOC @ surface (100% OH excess - 70% Lead 30% Tail) Stage 1 Total: 1118sks Stage 1 Lead: 630 sks Premium Lite FM + 3% CaCl2 + 0.25/sk Cello Flake + 5#/sk LCM-1 + 8% Bentonite + 0.4% FL-52A + 0.4% Sodium Metasilicate. Mixed at 12.1 ppg. Yield 2.13 cuft/sk. Stage 1 Tail: 487 sks Type III Cement + 1% CaCl2 + 0.25#/sk Cello Flake + 0.2% FL-52A. Mixed at 14.6 ppg. Yield 1.38 cuft/sk.	Fresh Wtr 8.3-10	Vertical <1°
Surveys every 30' through the curve	Mud logger onsite	KOP Mancos Silt Gallup Fn. 7" Csg	3,988 4,454 4,750 4,623	3,988 4,792'					
Surveys every stand to TD unless directed otherwise by Geologist	No OH Logs	Horizontal Target TD Base Gallup	4,812 4,726 5,070	9,758		6 1/8	100' overlap at liner top 4966' Drilled Lateral		Horz Inc/TVD 91deg/4812ft TD = 9758.2 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 3988', 8 3/4 inch holesize
- 5) Start curve at 10deg/100' build rate
- 6) Drill to csg point of 4792' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at -90 deg, drill lateral to 9758' 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

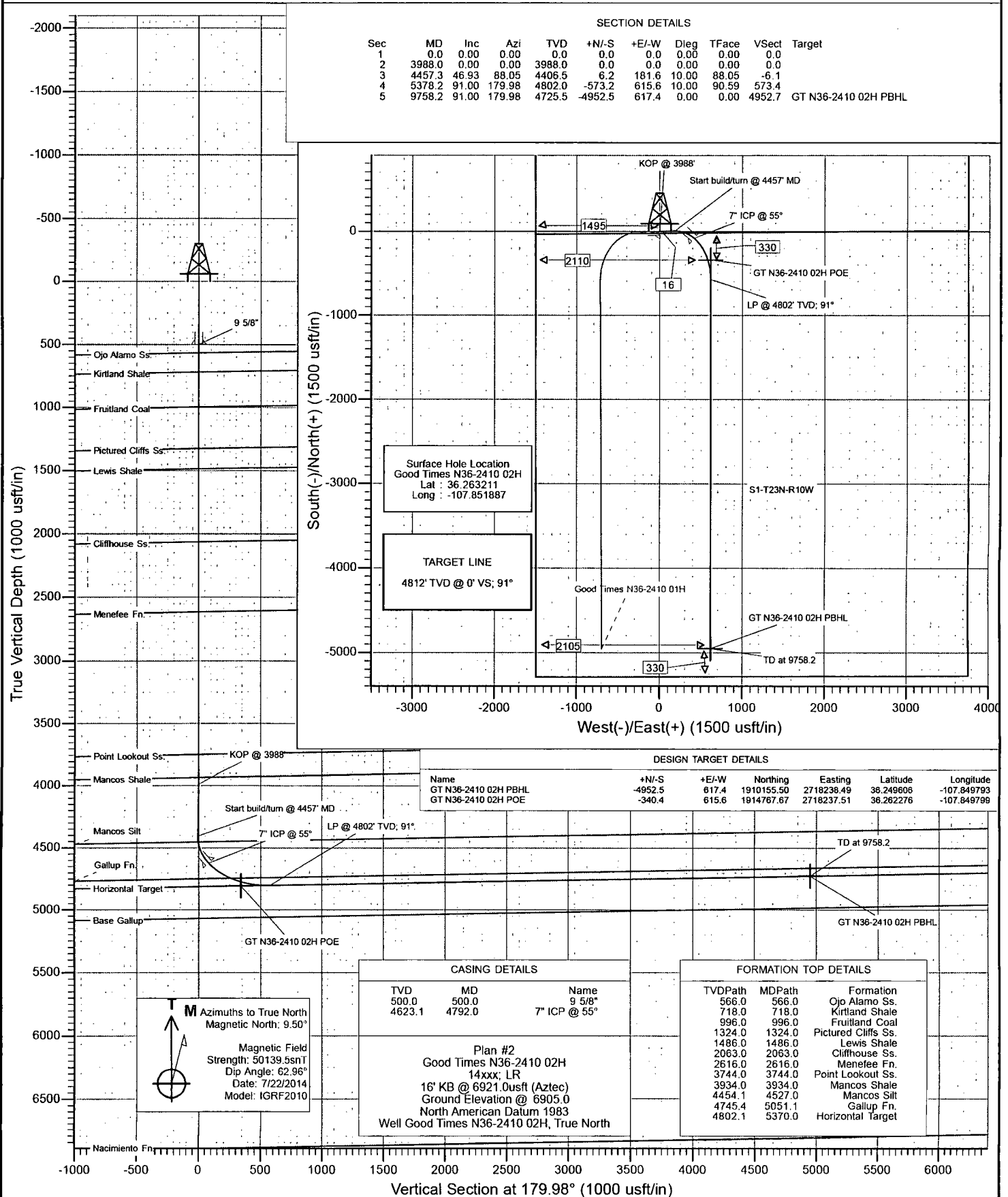
Drilling Mud Weight (ppg)	_____	9.625
Tension Safety Factor	_____	1.80
Maximum Tension Length (ft)	_____	9,630
Internal Yield Safety Factor	_____	1.10
Maximum Depth for Internal Yield (ft)	_____	14,150
Collapse Safety Factor	_____	1.125
Maximum Collapse Depth (ft)	_____	11,290

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

encana

Project: San Juan County, NM
Site: S36-T24N-R10W (Good Times)
Well: Good Times N36-2410 02H
Wellbore: Hz
Design: Plan #2



Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S36-T24N-R10W (Good Times)
Well: Good Times N36-2410 02H
Wellbore: Hz
Design: Plan #2

Local Co-ordinate Reference: Well Good Times N36-2410 02H
TVD Reference: 16' KB @ 6921.0usft (Aztec)
MD Reference: 16' KB @ 6921.0usft (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		S36-T24N-R10W (Good Times)			
Site Position:		Northing:	1,937,827.53 usft	Latitude:	36.325610
From:	Lat/Long	Easting:	2,706,096.15 usft	Longitude:	-107.891030
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-0.03 °

Well	Good Times N36-2410 02H					
Well Position	+N/-S	0.0 usft	Northing:	1,915,108.15 usft	Latitude:	36.263211
	+E/-W	0.0 usft	Easting:	2,717,622.02 usft	Longitude:	-107.851887
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	6,905.0 usft	

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/22/2014	9.50	62.96	50,139

Design		Plan #2		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	179.98

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	
3,988.0	0.00	0.00	3,988.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,457.3	46.93	88.05	4,406.5	6.2	181.6	10.00	10.00	0.00	88.05	
5,378.2	91.00	179.98	4,802.0	-573.2	615.6	10.00	4.79	9.98	90.59	
9,758.2	91.00	179.98	4,725.5	-4,952.5	617.4	0.00	0.00	0.00	0.00	GT N36-2410 02H PE

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S36-T24N-R10W (Good Times)
Well: Good Times N36-2410 02H
Wellbore: Hz
Design: Plan #2

Local Co-ordinate Reference: Well Good Times N36-2410 02H
TVD Reference: 16' KB @ 6921.0usft (Aztec)
MD Reference: 16' KB @ 6921.0usft (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"
566.0	0.00	0.00	566.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
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	
718.0	0.00	0.00	718.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
996.0	0.00	0.00	996.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,324.0	0.00	0.00	1,324.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,486.0	0.00	0.00	1,486.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	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	
2,063.0	0.00	0.00	2,063.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,616.0	0.00	0.00	2,616.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,744.0	0.00	0.00	3,744.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
3,934.0	0.00	0.00	3,934.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale
3,988.0	0.00	0.00	3,988.0	0.0	0.0	0.0	0.00	0.00	KOP @ 3988'
4,000.0	1.20	88.05	4,000.0	0.0	0.1	0.0	10.00	10.00	
4,100.0	11.20	88.05	4,099.3	0.4	10.9	-0.4	10.00	10.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S36-T24N-R10W (Good Times)
Well: Good Times N36-2410 02H
Wellbore: Hz
Design: Plan #2

Local Co-ordinate Reference: Well Good Times N36-2410 02H
TVD Reference: 16' KB @ 6921.0usft (Aztec)
MD Reference: 16' KB @ 6921.0usft (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
4,200.0	21.20	88.05	4,195.2	1.3	38.8	-1.3	10.00	10.00	
4,300.0	31.20	88.05	4,284.8	2.8	82.8	-2.8	10.00	10.00	
4,400.0	41.20	88.05	4,365.4	4.8	141.8	-4.8	10.00	10.00	
4,457.3	46.93	88.05	4,406.5	6.2	181.6	-6.1	10.00	10.00	Start build/turn @ 4457' MD
4,500.0	47.03	93.89	4,435.7	5.7	212.8	-5.6	10.00	0.25	
4,527.0	47.25	97.56	4,454.1	3.7	232.4	-3.6	10.00	0.81	Mancos Silt
4,600.0	48.42	107.29	4,503.1	-8.0	285.2	8.1	10.00	1.60	
4,700.0	51.27	119.84	4,567.8	-38.6	354.9	38.7	10.00	2.85	
4,792.0	54.98	130.38	4,623.1	-80.9	414.8	81.1	10.00	4.04	7" ICP @ 55°
4,800.0	55.35	131.24	4,627.6	-85.2	419.8	85.4	10.00	4.56	
4,900.0	60.38	141.46	4,680.9	-146.5	478.0	146.7	10.00	5.03	
5,000.0	66.12	150.64	4,726.0	-220.5	527.6	220.7	10.00	5.74	
5,051.1	69.25	155.01	4,745.4	-262.6	549.2	262.8	10.00	6.13	Gallup Fn.
5,100.0	72.35	159.01	4,761.5	-305.1	567.2	305.3	10.00	6.34	
5,157.6	76.10	163.56	4,777.1	-357.5	584.9	357.7	10.00	6.51	GT N36-2410 02H POE
5,200.0	78.91	166.81	4,786.3	-397.6	595.5	397.8	10.00	6.63	
5,300.0	85.66	174.26	4,799.7	-495.2	611.7	495.4	10.00	6.75	
5,370.0	90.44	179.38	4,802.1	-565.0	615.6	565.2	10.00	6.82	Horizontal Target
5,378.2	91.00	179.98	4,802.0	-573.2	615.6	573.4	10.00	6.83	LP @ 4802' TVD; 91°
5,400.0	91.00	179.98	4,801.6	-595.0	615.7	595.2	0.00	0.00	
5,500.0	91.00	179.98	4,799.9	-695.0	615.7	695.2	0.00	0.00	
5,600.0	91.00	179.98	4,798.1	-795.0	615.7	795.2	0.00	0.00	
5,700.0	91.00	179.98	4,796.4	-894.9	615.8	895.2	0.00	0.00	
5,800.0	91.00	179.98	4,794.7	-994.9	615.8	995.1	0.00	0.00	
5,900.0	91.00	179.98	4,792.9	-1,094.9	615.9	1,095.1	0.00	0.00	
6,000.0	91.00	179.98	4,791.2	-1,194.9	615.9	1,195.1	0.00	0.00	
6,100.0	91.00	179.98	4,789.4	-1,294.9	615.9	1,295.1	0.00	0.00	
6,200.0	91.00	179.98	4,787.7	-1,394.9	616.0	1,395.1	0.00	0.00	
6,300.0	91.00	179.98	4,785.9	-1,494.9	616.0	1,495.1	0.00	0.00	
6,400.0	91.00	179.98	4,784.2	-1,594.8	616.1	1,595.1	0.00	0.00	
6,500.0	91.00	179.98	4,782.4	-1,694.8	616.1	1,695.0	0.00	0.00	
6,600.0	91.00	179.98	4,780.7	-1,794.8	616.1	1,795.0	0.00	0.00	
6,700.0	91.00	179.98	4,778.9	-1,894.8	616.2	1,895.0	0.00	0.00	
6,800.0	91.00	179.98	4,777.2	-1,994.8	616.2	1,995.0	0.00	0.00	
6,900.0	91.00	179.98	4,775.4	-2,094.8	616.3	2,095.0	0.00	0.00	
7,000.0	91.00	179.98	4,773.7	-2,194.7	616.3	2,195.0	0.00	0.00	
7,100.0	91.00	179.98	4,771.9	-2,294.7	616.3	2,294.9	0.00	0.00	
7,200.0	91.00	179.98	4,770.2	-2,394.7	616.4	2,394.9	0.00	0.00	
7,300.0	91.00	179.98	4,768.4	-2,494.7	616.4	2,494.9	0.00	0.00	
7,400.0	91.00	179.98	4,766.7	-2,594.7	616.5	2,594.9	0.00	0.00	
7,500.0	91.00	179.98	4,764.9	-2,694.7	616.5	2,694.9	0.00	0.00	
7,600.0	91.00	179.98	4,763.2	-2,794.7	616.5	2,794.9	0.00	0.00	
7,700.0	91.00	179.98	4,761.5	-2,894.6	616.6	2,894.9	0.00	0.00	
7,800.0	91.00	179.98	4,759.7	-2,994.6	616.6	2,994.8	0.00	0.00	
7,900.0	91.00	179.98	4,758.0	-3,094.6	616.7	3,094.8	0.00	0.00	
8,000.0	91.00	179.98	4,756.2	-3,194.6	616.7	3,194.8	0.00	0.00	
8,100.0	91.00	179.98	4,754.5	-3,294.6	616.7	3,294.8	0.00	0.00	
8,200.0	91.00	179.98	4,752.7	-3,394.6	616.8	3,394.8	0.00	0.00	
8,300.0	91.00	179.98	4,751.0	-3,494.5	616.8	3,494.8	0.00	0.00	
8,400.0	91.00	179.98	4,749.2	-3,594.5	616.9	3,594.7	0.00	0.00	
8,500.0	91.00	179.98	4,747.5	-3,694.5	616.9	3,694.7	0.00	0.00	
8,600.0	91.00	179.98	4,745.7	-3,794.5	617.0	3,794.7	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: S36-T24N-R10W (Good Times)
 Well: Good Times N36-2410 02H
 Wellbore: Hz
 Design: Plan #2

Local Co-ordinate Reference: Well Good Times N36-2410 02H
 TVD Reference: 16' KB @ 6921.0usft (Aztec)
 MD Reference: 16' KB @ 6921.0usft (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
8,700.0	91.00	179.98	4,744.0	-3,894.5	617.0	3,894.7	0.00	0.00	
8,800.0	91.00	179.98	4,742.2	-3,994.5	617.0	3,994.7	0.00	0.00	
8,900.0	91.00	179.98	4,740.5	-4,094.5	617.1	4,094.7	0.00	0.00	
9,000.0	91.00	179.98	4,738.7	-4,194.4	617.1	4,194.7	0.00	0.00	
9,100.0	91.00	179.98	4,737.0	-4,294.4	617.2	4,294.6	0.00	0.00	
9,200.0	91.00	179.98	4,735.2	-4,394.4	617.2	4,394.6	0.00	0.00	
9,300.0	91.00	179.98	4,733.5	-4,494.4	617.2	4,494.6	0.00	0.00	
9,400.0	91.00	179.98	4,731.7	-4,594.4	617.3	4,594.6	0.00	0.00	
9,500.0	91.00	179.98	4,730.0	-4,694.4	617.3	4,694.6	0.00	0.00	
9,600.0	91.00	179.98	4,728.3	-4,794.3	617.4	4,794.6	0.00	0.00	
9,700.0	91.00	179.98	4,726.5	-4,894.3	617.4	4,894.5	0.00	0.00	
9,758.2	91.00	179.98	4,725.5	-4,952.5	617.4	4,952.7	0.00	0.00	TD at 9758.2 - GT N36-2410 02H PBHL

Targets

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 N36-2410 02H PBHL	- plan hits target center	- Point	0.00	0.00	4,725.5	-4,952.5	617.4	1,910,155.50	2,718,238.49	36.249606	-107.849793
GT N36-2410 02H POE	- plan misses target center by 45.5usft at 5157.6usft MD (4777.1 TVD, -357.5 N, 584.9 E)	- Point	0.00	0.00	4,806.1	-340.4	615.6	1,914,767.67	2,718,237.51	36.262276	-107.849799

500.0	500.0	9 5/8"	0	0
4,792.0	4,623.1	7" ICP @ 55°	0	0

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
566.0	566.0	Ojo Alamo Ss.		-1.00	179.98
718.0	718.0	Kirtland Shale		-1.00	179.98
996.0	996.0	Fruitland Coal		-1.00	179.98
1,324.0	1,324.0	Pictured Cliffs Ss.		-1.00	179.98
1,486.0	1,486.0	Lewis Shale		-1.00	179.98
2,063.0	2,063.0	Cliffhouse Ss.		-1.00	179.98
2,616.0	2,616.0	Menefee Fn.		-1.00	179.98
3,744.0	3,744.0	Point Lookout Ss.		-1.00	179.98
3,934.0	3,934.0	Mancos Shale		-1.00	179.98
4,527.0	4,454.0	Mancos Silt		-1.00	179.98
5,051.1	4,750.0	Gallup Fn.		-1.00	179.98
5,370.0	4,812.0	Horizontal Target		-1.00	179.98

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times N36-2410 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	16' KB @ 6921.0usft (Aztec)
Project:	San Juan County, NM	MD Reference:	16' KB @ 6921.0usft (Aztec)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times N36-2410 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,988.0	3,988.0	0.0	0.0	KOP @ 3988'
4,457.3	4,406.5	6.2	181.6	Start build/turn @ 4457' MD
5,378.2	4,802.0	-573.2	615.6	LP @ 4802' TVD; 91°
9,758.2	4,725.5	-4,952.5	617.4	TD at 9758.2

EnCana Oil & Gas (USA) Inc

San Juan County, NM

S36-T24N-R10W (Good Times)

Good Times N36-2410 02H

Hz

Plan #2

Anticollision Report

10 September, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Good Times N36-2410 02H
Project:	San Juan County, NM	TVD Reference:	16' KB @ 6921.0usft (Aztec)
Reference Site:	S36-T24N-R10W (Good Times)	MD Reference:	16' KB @ 6921.0usft (Aztec)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Good Times N36-2410 02H	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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 9/10/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,758.2	Plan #2 (Hz)	Geolink MWD	Geolink MWD

Summary						
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						
S36-T24N-R10W (Good Times)						
Good Times N36-2410 01H - Hz - Plan #2	3,988.0	3,988.0	29.9	16.0	2.157	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Good Times N36-2410 02H
Project:	San Juan County, NM	TVD Reference:	16' KB @ 6921.0usft (Aztec)
Reference Site:	S36-T24N-R10W (Good Times)	MD Reference:	16' KB @ 6921.0usft (Aztec)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Good Times N36-2410 02H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S36-T24N-R10W (Good Times) - Good Times N36-2410 01H - Hz - Plan #2														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			
0.0	0.0	0.0	0.0	0.0	0.0	-102.65	-6.6	-29.2	29.9						
100.0	100.0	100.0	100.0	0.1	0.1	-102.65	-6.6	-29.2	29.9	29.6	0.29	102.013			
200.0	200.0	200.0	200.0	0.3	0.3	-102.65	-6.6	-29.2	29.9	29.3	0.64	46.571			
300.0	300.0	300.0	300.0	0.5	0.5	-102.65	-6.6	-29.2	29.9	28.9	0.99	30.173			
400.0	400.0	400.0	400.0	0.7	0.7	-102.65	-6.6	-29.2	29.9	28.6	1.34	22.315			
500.0	500.0	500.0	500.0	0.8	0.8	-102.65	-6.6	-29.2	29.9	28.2	1.69	17.705			
600.0	600.0	600.0	600.0	1.0	1.0	-102.65	-6.6	-29.2	29.9	27.9	2.04	14.673			
700.0	700.0	700.0	700.0	1.2	1.2	-102.65	-6.6	-29.2	29.9	27.5	2.39	12.528			
800.0	800.0	800.0	800.0	1.4	1.4	-102.65	-6.6	-29.2	29.9	27.2	2.74	10.930			
900.0	900.0	900.0	900.0	1.5	1.5	-102.65	-6.6	-29.2	29.9	26.8	3.09	9.694			
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-102.65	-6.6	-29.2	29.9	26.5	3.43	8.708			
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	-102.65	-6.6	-29.2	29.9	26.1	3.78	7.905			
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	-102.65	-6.6	-29.2	29.9	25.8	4.13	7.237			
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	-102.65	-6.6	-29.2	29.9	25.4	4.48	6.674			
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	-102.65	-6.6	-29.2	29.9	25.1	4.83	6.192			
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	-102.65	-6.6	-29.2	29.9	24.7	5.18	5.774			
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	-102.65	-6.6	-29.2	29.9	24.4	5.53	5.410			
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	-102.65	-6.6	-29.2	29.9	24.0	5.88	5.089			
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	-102.65	-6.6	-29.2	29.9	23.7	6.23	4.803			
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	-102.65	-6.6	-29.2	29.9	23.3	6.58	4.548			
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	-102.65	-6.6	-29.2	29.9	23.0	6.93	4.319			
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	-102.65	-6.6	-29.2	29.9	22.6	7.27	4.112			
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	-102.65	-6.6	-29.2	29.9	22.3	7.62	3.924			
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	-102.65	-6.6	-29.2	29.9	21.9	7.97	3.752			
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	-102.65	-6.6	-29.2	29.9	21.6	8.32	3.594			
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	-102.65	-6.6	-29.2	29.9	21.2	8.67	3.450			
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	-102.65	-6.6	-29.2	29.9	20.9	9.02	3.316			
2,700.0	2,700.0	2,700.0	2,700.0	4.7	4.7	-102.65	-6.6	-29.2	29.9	20.5	9.37	3.193			
2,800.0	2,800.0	2,800.0	2,800.0	4.9	4.9	-102.65	-6.6	-29.2	29.9	20.2	9.72	3.078			
2,900.0	2,900.0	2,900.0	2,900.0	5.0	5.0	-102.65	-6.6	-29.2	29.9	19.8	10.07	2.971			
3,000.0	3,000.0	3,000.0	3,000.0	5.2	5.2	-102.65	-6.6	-29.2	29.9	19.5	10.42	2.872			
3,100.0	3,100.0	3,100.0	3,100.0	5.4	5.4	-102.65	-6.6	-29.2	29.9	19.1	10.77	2.779			
3,200.0	3,200.0	3,200.0	3,200.0	5.6	5.6	-102.65	-6.6	-29.2	29.9	18.8	11.11	2.691			
3,300.0	3,300.0	3,300.0	3,300.0	5.7	5.7	-102.65	-6.6	-29.2	29.9	18.4	11.46	2.609			
3,400.0	3,400.0	3,400.0	3,400.0	5.9	5.9	-102.65	-6.6	-29.2	29.9	18.1	11.81	2.532			
3,500.0	3,500.0	3,500.0	3,500.0	6.1	6.1	-102.65	-6.6	-29.2	29.9	17.8	12.16	2.460			
3,600.0	3,600.0	3,600.0	3,600.0	6.3	6.3	-102.65	-6.6	-29.2	29.9	17.4	12.51	2.391			
3,700.0	3,700.0	3,700.0	3,700.0	6.4	6.4	-102.65	-6.6	-29.2	29.9	17.1	12.86	2.326			
3,800.0	3,800.0	3,800.0	3,800.0	6.6	6.6	-102.65	-6.6	-29.2	29.9	16.7	13.21	2.265			
3,900.0	3,900.0	3,900.0	3,900.0	6.8	6.8	-102.65	-6.6	-29.2	29.9	16.4	13.56	2.206			
3,988.0	3,988.0	3,988.0	3,988.0	6.9	6.9	-102.65	-6.6	-29.2	29.9	16.0	13.66	2.157 CC, ES, SF			
4,000.0	4,000.0	4,000.0	4,000.0	7.0	7.0	169.34	-6.6	-29.2	30.0	16.1	13.90	2.160			
4,050.0	4,049.9	4,047.1	4,047.0	7.0	7.0	170.86	-6.6	-31.1	35.2	21.2	14.02	2.512			
4,100.0	4,099.3	4,092.0	4,091.6	7.1	7.1	173.27	-6.6	-36.6	48.6	34.5	14.06	3.454			
4,150.0	4,147.9	4,133.1	4,131.9	7.2	7.2	175.16	-6.6	-44.6	69.6	55.5	14.02	4.960			
4,200.0	4,195.2	4,169.4	4,166.9	7.4	7.3	176.38	-6.7	-54.0	97.3	83.4	13.91	6.998			
4,250.0	4,241.0	4,200.0	4,196.0	7.5	7.3	177.11	-6.7	-63.7	130.9	117.1	13.71	9.542			
4,300.0	4,284.8	4,225.8	4,220.0	7.7	7.4	177.54	-6.8	-73.1	169.1	155.7	13.45	12.571			
4,350.0	4,326.4	4,250.0	4,242.1	7.9	7.5	177.84	-6.8	-82.9	211.2	198.1	13.14	16.078			
4,400.0	4,365.4	4,261.6	4,252.6	8.2	7.5	177.76	-6.9	-87.9	256.1	243.3	12.76	20.069			
4,450.0	4,401.5	4,272.9	4,262.7	8.6	7.6	177.53	-6.9	-92.9	303.2	290.8	12.36	24.539			
4,457.3	4,406.5	4,274.2	4,263.8	8.7	7.6	177.47	-6.9	-93.5	310.2	297.9	12.29	25.229			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Good Times N36-2410 02H
Project:	San Juan County, NM	TVD Reference:	16' KB @ 6921.0usft (Aztec)
Reference Site:	S36-T24N-R10W (Good Times)	MD Reference:	16' KB @ 6921.0usft (Aztec)
Site Error:	0.0usft	North Reference:	True
Reference Well:	Good Times N36-2410 02H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S36-T24N-R10W (Good Times) - Good Times N36-2410 01H - Hz - Plan #2														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			
4,500.0	4,435.7	4,281.3	4,270.2	9.1	7.6	159.31	-6.9	-96.9	351.3	338.4	12.93	27.170			
4,550.0	4,469.7	4,288.9	4,276.8	9.6	7.6	140.76	-6.9	-100.5	399.4	385.1	14.30	27.926			
4,600.0	4,503.1	4,300.0	4,288.5	10.1	7.7	126.72	-7.0	-105.9	447.1	431.5	15.64	28.586			
4,650.0	4,535.9	4,300.0	4,286.5	10.6	7.7	112.69	-7.0	-105.9	494.2	477.2	16.98	29.101			
4,700.0	4,567.8	4,300.0	4,286.5	11.2	7.7	101.34	-7.0	-105.9	540.8	522.8	18.01	30.033			
4,750.0	4,598.4	4,300.0	4,286.5	11.8	7.7	92.18	-7.0	-105.9	586.6	567.9	18.75	31.280			
4,800.0	4,627.6	4,315.7	4,300.0	12.4	7.7	87.65	-7.0	-114.0	631.2	611.9	19.29	32.713			
4,850.0	4,655.2	4,319.3	4,303.1	13.0	7.7	81.77	-7.0	-115.9	674.9	655.2	19.74	34.197			
4,900.0	4,680.9	4,322.5	4,305.8	13.6	7.8	76.80	-7.0	-117.6	717.5	697.5	20.05	35.786			
4,950.0	4,704.6	4,325.2	4,308.1	14.2	7.8	72.59	-7.0	-119.0	758.9	738.7	20.25	37.473			
5,000.0	4,728.0	4,327.6	4,310.0	14.8	7.8	69.02	-7.0	-120.3	799.0	778.6	20.35	39.256			
5,050.0	4,745.0	4,329.5	4,311.7	15.4	7.8	66.00	-7.0	-121.3	837.6	817.2	20.36	41.132			
5,100.0	4,761.5	4,331.1	4,313.0	16.0	7.8	63.46	-7.0	-122.2	874.8	854.5	20.29	43.102			
5,150.0	4,775.3	4,332.4	4,314.1	16.5	7.8	61.36	-7.0	-122.9	910.3	890.2	20.16	45.163			
5,200.0	4,786.3	4,333.4	4,314.9	17.1	7.8	59.63	-7.0	-123.4	944.3	924.3	19.96	47.307			
5,250.0	4,794.5	4,334.0	4,315.4	17.6	7.8	58.25	-7.1	-123.8	976.5	956.8	19.72	49.525			

Anticollision Report

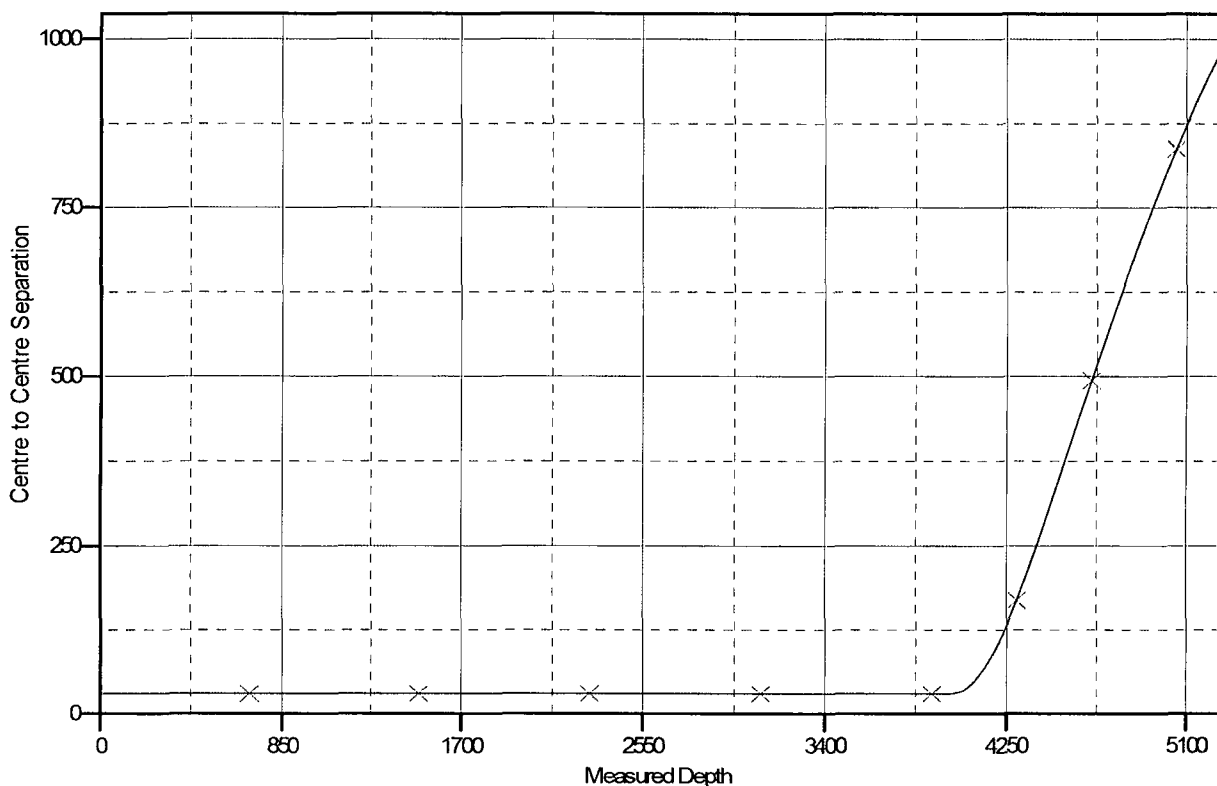
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Reference Site: S36-T24N-R10W (Good Times)
Site Error: 0.0usft
Reference Well: Good Times N36-2410 02H
Well Error: 0.0usft
Reference Wellbore: Hz
Reference Design: Plan #2

Local Co-ordinate Reference: Well Good Times N36-2410 02H
TVD Reference: 16' KB @ 6921.0usft (Aztec)
MD Reference: 16' KB @ 6921.0usft (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 @ 6921.0usft (Aztec)
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.833333 °

Coordinates are relative to: Good Times N36-2410 02H
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: -0.01°

Ladder Plot



LEGEND

Good Times N36-2410 01H, Hz, Plan #2 V0

Good Times N36-2410 02H

SHL: SESW Section 36, T24N, R10W
16' FSL and 1495' FWL

BHL: SESW Section 1, T23N, R10W
330' FSL and 2105' FWL

San Juan County, New Mexico

Lease Number: NM 42059 & NM 23470

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 12 feet on the northwest corner (corner 2) and the maximum fill will be approximately 17.3 feet on the northwest corner (corner 5).

4. As determined during the onsite on June 17, 2014, the following best management practices will be implemented:

Water will be diverted around the pad and silt traps installed as needed upon interim reclamation.

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 3 weeks.

C. Pipeline

See the Standard SF-299 Application for authorization to construct, operate, maintain and terminate a 1691 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.

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.

ENCANA OIL & GAS (USA) INC.

GOOD TIMES N36-2410 #02H

16' FSL & 1495' FWL

LOCATED IN THE SE1/4 SW1/4 OF SECTION 36

T24N, R10W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

1,691' +/- 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 7.8 MILES TO AN EXISTING ROADWAY TO THE LEFT (EAST).
- 3) TURN LEFT (EAST) ON EXISTING ROADWAY AND TRAVEL 0.5 MILES TO NEW ACCESS ROAD ON THE RIGHT (SOUTH).
- 4) FOLLOW THE NEW ACCESS ROAD 1,691 FEET (or 0.3 MILES) TO THE WELL FLAG FOR THE PROPOSED N36-2410 WELL PAD
- 5) WELL FLAG LOCATED AT : LATITUDE: 36.263211° N, LONGITUDE: 107.851887° W (NAD 83)

encana

