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Farmington Field Office
Bureau of Land Management

Form 3160-3
(August 2007)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM 101058

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

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
N/A

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
Good Times L10-2410 01H

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

9. API Well No.
30-045-35442

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

3b. Phone No. *(include area code)*
720-876-5331

10. Field and Pool, or Exploratory
Bisti Lower - Gallup

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface L 1753' FSL and 199' FWL Section 10, T24N, R10W
At proposed prod. zone L 1753' FSL and 330' FWL Section 9, T24N, R10W

11. Sec., T. R. M. or Blk. and Survey or Area
Section 10, T24N, R10W NMPM

14. Distance in miles and direction from nearest town or post office*
+/- 33.5 miles south from intersection of US Hwy 550 and US Hwy 64 in Bloomfield, NM

12. County or Parish
San Juan

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
SHL is 199' from west lease line

16. No. of acres in lease
NMNM 101058 - 1,750.52 acres

17. Spacing Unit dedicated to this well
160 acres (N2S2 Section 9, T24N R10W)

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
JUNIPER 44-9 is 552' south of the wellbore

19. Proposed Depth
5228' TVD/ 10040' MD

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

RCVD FEB 11 '13

Hold C104 for Directional Survey and "As Drilled" plat

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6896' GL, 6909' KB

22. Approximate date work will start*
11/18/2013

23. Estimated duration
25 days

OIL CONS. DIV.
DIST. 3

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: Holly Hill
Name *(Printed/Typed)*: Holly Hill
Date: 11/30/12

Title: Regulatory Analyst

Approved by *(Signature)*: /s/ Jim Markewicz
Name *(Printed/Typed)*:
Date: 2/1/13

Title: AFM
Office: FFO

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

HOLD C104 FOR NSL

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

Hold C104
for Directional Survey
and "As Drilled" plat

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

NMOCD

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

CONFIDENTIAL

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

MAR 06 2013

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

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First Street, 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 Drive, 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 Drive
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011

Submit one copy to Appropriate District Office

☐ AMENDED REPORT

RCVD FEB 20 '13
OIL CONS. DIV.
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-045-35442	97232	BASIN MANCOS

4 Property Code	5 Property Name	6 Well Number
39759	GOOD TIMES L10-2410	01H

7 OGRID No.	8 Operator Name	9 Elevation
282327	ENCANA OIL & GAS (USA) INC.	6896'

10 Surface Location

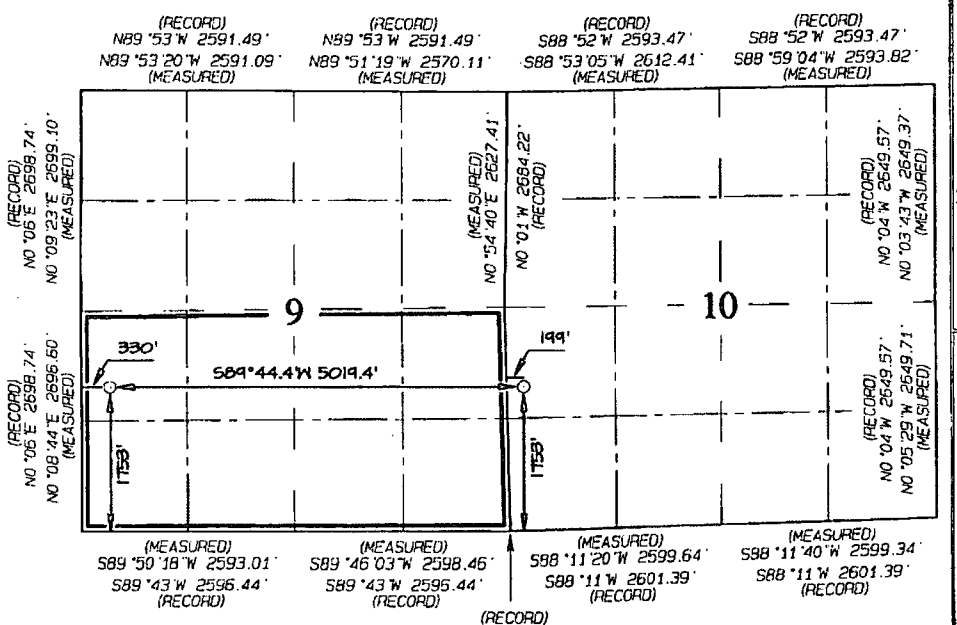
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	24N	10W		1753	SOUTH	199	WEST	SAN JUAN

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
L	9	24N	10W		1753	SOUTH	330	WEST	SAN JUAN

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320.0 Acres S/2 - Section 9			

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



END-OF-LATERAL
1753' FSL 330' FWL
SECTION 9, T24N, R10W
LAT: 36.32554°N
LONG: 107.90807°W
DATUM: NAD1927

LAT: 36.32555°N
LONG: 107.90869°W
DATUM: NAD1983

SURFACE LOCATION
1753' FSL 199' FWL
SECTION 10, T24N, R10W
LAT: 36.32561°N
LONG: 107.89103°W
DATUM: NAD1927

LAT: 36.32563°N
LONG: 107.89165°W
DATUM: NAD1983

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 Date 2/14/13

Robynn Haden
Printed Name

robynn.haden@encana.com
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Survey Date: OCTOBER 10, 2012

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS
Certificate Number 15269

Directions from the Intersection of US Hwy 550 & US Hwy 64

in Bloomfield, NM to Encana Oil & Gas (USA) Inc. Good Times L10-2410 01H

1753' FSL & 199' FWL, Section 10, T24N, R10W, N.M.P.M., San Juan County, NM

Latitude: 36.32563°N Longitude: 107.89165°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 27.9 miles to State Hwy #57 @ Mile Marker 123.4;

Go right (South-westerly) on State Hwy #57 for 3.2 miles to fork in road;

Go right (Westerly) on County Road #7610 for 0.4 miles to fork in road;

Go left which is straight (Westerly) remaining on County Road #7610 for 2.0 miles to fork in road;

Go left (South-easterly) for 300' to new access on right-hand side of existing roadway which continues for 108' to Encana Good Times L10-2410 01H staked location.

Good Times L10-2410 01H
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1753 FSL and 330 FWL
San Juan County, New Mexico
Lease Number: NMNM 101058

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)
Ojo Alamo	797'
Kirtland	934'
Fruitland Coal	1349'
Pictured Cliffs	1624'
Lewis	1759'
Cliffhouse	2374'
Menefee	3124'
Point Lookout	4053'
Mancos	4242'
Gallup	5059'

The referenced surface elevation is 6896', KB 6909'

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

Substance	Formation	Depth (TVD)
Water	Ojo Alamo	797'
Gas	Fruitland Coal	1349'
Gas	Pictured Cliffs	1624'
Gas	Cliffhouse	2374'
Gas	Point Lookout	4053'
Oil/Gas	Mancos	4242'

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

3. PRESSURE CONTROL

a) Pressure control equipment and configuration will be designed to meet 2M standards.
b) Working pressure on rams and BOPE will be 3,000 psi.
c) Function test and visual inspection of the BOP will be conducted daily and noted in the IADC Daily Drilling Report.
d) The Annular BOP will be pressure tested to a minimum of 50 percent of its rated working pressure.
e) Blind and Pipe Rams/BOP will be tested against a test plug to 100 percent of rated working pressure.
f) Pressure tests are required before drilling out from under all casing strings set and cemented in place.
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	Hole Size	Csg Size	Weight	Grade
Conductor	0-60'	30"	20"	94#	H40, STC New
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5450'MD	8 1/2"	7"	26#	J55, LTC New
Production Liner	5250'-10040'MD	6 1/8"	4 1/2"	11.6#	B80*, LTC New

Casing String				Casing Strength Properties			Minimum Design Factors		
Size	Weight (lb/ft)	Grade	Connection	Collapse (psi)	Burst (psi)	Tensile (1000lb)	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 1/2"	11.6	B80	LTC	6350	7780	201	1.125	1.1	1.5

*B80 pipe specifications are attached

Casing design is subject to revision based on geologic conditions encountered.

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

b) The proposed cementing program is as follows:

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a pre-flush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.

Good Times L10-2410 01H
SHL: NWSW Section 10, T24N, R10W
1753 FSL and 199 FWL
BHL: NWSW Section 9, T24N, R10W
1753 FSL and 330 FWL
San Juan County, New Mexico
Lease Number: NMNM 101058

Casing	Depth	Cement Volume (sacks)	Cement Type&Yield	Designed TOC	Centralizers
Conductor	60'	100sk	Type I Neat 14.8ppg	Surface	None
Surface	500'	178sk	Type III Cement + 1% CaCl + 0.25lb/sk Cello Flake + 0.2% FL, 14.6ppg, 1.38cuf/sk	Surface	1 turbolizer per joint on bottom 3 joints
Intermediate	5249'TVD/ 5450'MD	30% open hole excess Stage 1 Lead: 209sk Stage 1 Tail: 144sk Stage 2 Lead: 124sk	**Lead** (Stages 1 and 2): PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuft/sk **Tail** (Stage 1): Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuft/sk	Surface	1 per joint for bottom 3 joints, 1 every 3 joints for remaining joints
Production Liner*	5250'MD-10040'MD	None – External casing packers	N/A	N/A	N/A

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

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

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

5. WELL PLAN & DIRECTIONAL DRILLING PROGRAM

The proposed well will be drilled in two phases. A pilot hole will be drilled in the first phase, followed by kicking off a horizontal lateral in the existing wellbore in the second phase. The intent of drilling a pilot hole is to obtain open hole log data. The intent of the second phase of the well is to plug back the pilot hole with cement to the kick off point. After plugging back, the plan is to drill a horizontal lateral from the kick off point in the existing wellbore to the proposed bottom hole location.

Directional plans are attached.

Well Phase	Description	Proposed Depth (TVD/MD)	Formation
1	Vertical Pilot Hole	5572'/5572'	Gallup
2	Horizontal Lateral	5228'/10040'	Gallup

Good Times L10-2410 01H
SHL: NWSW Section 10, T24N, R10W
1753 FSL and 199 FWL
BHL: NWSW Section 9, T24N, R10W
1753 FSL and 330 FWL
San Juan County, New Mexico
Lease Number: NMNM 101058

Proposed Plug Back Procedure:
KOP 4694'

Set kick plug at KOP

1. Spot 400' kick plug from 4494' – 4894'
    a. 167sx of Class G cement with salt (0.94ft^3/sk yield, 17.5ppg)
    b. Spot tuned spacer
2. Pull uphole and reverse out
3. Pump bottoms up 2 times, pull uphole
4. Tag plug, drill ahead to KOP when cement is solid

6. DRILLING FLUIDS PROGRAM

a) Vertical Pilot Hole:

Hole Size (in)	TVD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
30"	0-60'	Fresh Water	8.3-9.2	38-100	4-28
12 1/4"	0-500'	Fresh Water	8.4-8.6	60-70	NC
8 1/2"	500-5572'	Fresh Water LSND	8.5-8.8	40-50	8-10

b) Kick off Point to Intermediate Casing Point:

Hole Size (in)	TVD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
8 1/2"	4694' (KOP)-5249' (5450'MD)	Fresh Water LSND	8.5-8.8	40-50	8-10

c) Intermediate Casing Point to TD:

Hole Size (in)	Depth (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
6 1/8"	5450'MD-10040'MD	Synthetic Oil Based Mud	8.6-9.0	15-25	<15

d) 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.

e) A closed-loop system will be used to recover drilling fluid and dry cuttings in both phases of the well and on all hole intervals, including fresh water and oil-based operations. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. A frac tank will be on location to store fresh water. Waste will be disposed of properly at an EPA-approved hazardous waste facility. Fresh water cuttings will be disposed of at Basin Disposal, Inc. and/or Industrial Ecosystems, Inc. The location will be lined in accordance wit the Surface Use Plan of Operations.

Good Times L10-2410 01H
SHL: NWSW Section 10, T24N, R10W
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1753 FSL and 330 FWL
San Juan County, New Mexico
Lease Number: NMNM 101058

7. TESTING, CORING and LOGGING

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

Open Hole:
Triple combo with Spectral Gamma TD to surface casing
Specialty logs will be decided real time by onsite geologists

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 +/- 2,608 psi based on a 9.0 ppg at 5572' TVD of the vertical pilot hole. No abnormal pressure or temperatures are anticipated.

No hydrogen sulfide gas is anticipated, however, if H_2S is encountered, the guidelines in Onshore Order No. 6 will be followed.

9. ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence on November 18, 2013. 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 25 days.

LOC: Sec 10-T24N-R10W
County: San Juan
WELL: Good Times L10-2410 01H

Encana Natural Gas

WELL SUMMARY

encana natural gas

ENG: J. Fox/ A. 11/29/12
RIG:
GLE: 6896
RKBE: 6909

MWD LWD	OPEN HOLE LOGGING	FORM	DEPTH TVD	DEPTH MD	HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION
			60	60'	30	**20" 94#** 100sx Type I,Neat 48.8ppg cmt	Fresh wtr 8.3-9.2	
Surveys After csg is run	None		**500**	**500**	**12 1/4**	**9 5/8" 36ppf J55 STC** TOC @ surface 178 sks Type III Cmt	Fresh wtr 8.4-8.6	Vertical <1°
Surveys every 500'	No OH logs	Ojo Alamo Kirtland Fruitland Coal Pictured Cliffs Ss Lewis Shale Cliffhouse Ss Menefee Fn Point Lookout Ss Mancos Sh	797 934 1349 1624 1759 2374 3124 4053 4242		**8 1/2**	**7" 26ppf J55 LTC** Stage tool @1600' TOC @ surface 30% OH excess: 477 sks Total Stage 1 Lead: 209 sks Stage 1 Tail: 144 sks Stage 2 Lead: 124 sks	Fresh Wtr 8.5-8.8	Vertical <1°
	Mud logger onsite	**KICK OFF PT** Mancos Silt Gallup Top	4694 4826 5059					KOP 4694 10 deg/100'
			5249	**5450**				
Surveys every 500' Gyro at CP MWD Gamma Directional	No OH Logs	horz target Base Gallup **Pilot Hole TD**	**5267** 5372 **5572**	**5599**	**6 1/8**	200' overlap at liner top 4440' Lateral **4 1/2" 11.6ppf SB80 LTC** Running external swellable csg packers for isolation of prod string Plan on setting top packer within 100' of intermediate casing shoe	8.6-9.0 OBM Switch to OBM 8.6-9.0	.25deg updip 5228'TVD TD = 10040' MD

NOTES:

1) Drill with 30" bit to 60', set 20" 94# conductor pipe
2) Drill surface to 500', R&C 9 5/8" casing
3) N/U BOP and surface equipment
4) Drill to pilot hole TD of 5572' and run OH logs.
5) Spot cement kick plug
6) Kick off at 4694' and start curve at 10deg/100' build rate
7) Drill to casing point of 5450' MD
8) R&C 7" casing, circ cmt to surface, switch to OBM
9) Land at 90deg, drill 4440' lateral to 10040', run 4 1/2" liner with external swellable csg packers

Boomerang Tube LLC

CASING (OR) TUBING DESCRIPTION AND PERFORMANCE PROPERTIES

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

MAXIMUM DEPTH/LENGTH BASED ON MUD WTS & SAFETY FACTORS

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

API RELATED VALUES and INTERMEDIATE CALCULATION RESULTS

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

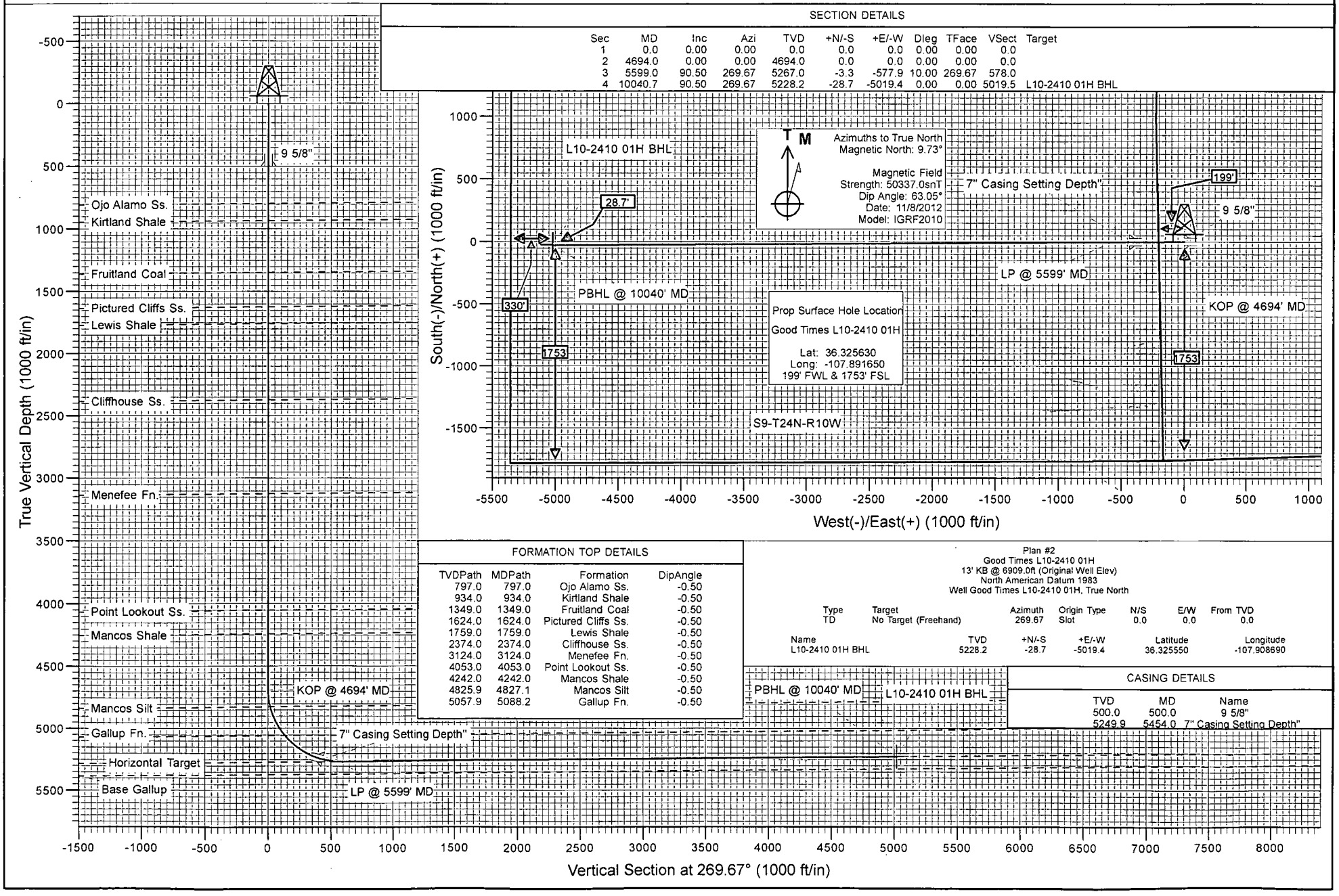
encana natural gas

Project: San Juan County, NM
Site: S10-T24N-R10W (Good Times)
Well: Good Times L10-2410 01H
Wellbore: HZ
Design: Plan #2

CATHEDRAL

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	4694.0	0.00	0.00	4694.0	0.0	0.0	0.00	0.00	0.0	
3	5599.0	90.50	269.67	5267.0	-3.3	-577.9	10.00	269.67	578.0	
4	10040.7	90.50	269.67	5228.2	-28.7	-5019.4	0.00	0.00	5019.5	L10-2410 01H BHL



FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle
797.0	797.0	Ojo Alamo Ss.	-0.50
934.0	934.0	Kirtland Shale	-0.50
1349.0	1349.0	Fruitland Coal	-0.50
1624.0	1624.0	Pictured Cliffs Ss.	-0.50
1759.0	1759.0	Lewis Shale	-0.50
2374.0	2374.0	Cliffhouse Ss.	-0.50
3124.0	3124.0	Menefee Fn.	-0.50
4053.0	4053.0	Point Lookout Ss.	-0.50
4242.0	4242.0	Mancos Shale	-0.50
4825.9	4827.1	Mancos Silt	-0.50
5057.9	5088.2	Gallup Fn.	-0.50

Plan #2
Good Times L10-2410 01H
13' KB @ 6909.0ft (Original Well Elev)
North American Datum 1983
Well Good Times L10-2410 01H, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	269.67	Slot	0.0	0.0	0.0

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
L10-2410 01H BHL	5228.2	-28.7	-5019.4	36.325550	-107.908690

CASING DETAILS

TVD	MD	Name
500.0	500.0	9 5/8"
5249.9	5454.0	7" Casing Setting Depth"

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Good Times L10-2410 01H
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	13' KB @ 6909.0ft (Original Well Elev)
Project:	San Juan County, NM	**MD Reference:**	13' KB @ 6909.0ft (Original Well Elev)
Site:	S10-T24N-R10W (Good Times)	**North Reference:**	True
Well:	Good Times L10-2410 01H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

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	S10-T24N-R10W (Good Times)				
Site Position:		**Northing:**	1,937,831.40 ft	**Latitude:**	36.325610
From:	Lat/Long	**Easting:**	2,706,101.56 ft	**Longitude:**	-107.891030
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	-0.03 °

Well	Good Times L10-2410 01H				
Well Position	**+N/-S**	0.0 ft	**Northing:**	1,937,838.79 ft	**Latitude:** 36.325630
	+E/-W	0.0 ft	**Easting:**	2,705,918.94 ft	**Longitude:** -107.891650
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:** 6,896.0 ft

Wellbore	HZ				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	11/8/2012	9.73	63.05	50,337

Design	Plan #2				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	0.0	0.0	0.0	269.67	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,694.0	0.00	0.00	4,694.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,599.0	90.50	269.67	5,267.0	-3.3	-577.9	10.00	10.00	0.00	269.67	
10,040.7	90.50	269.67	5,228.2	-28.7	-5,019.4	0.00	0.00	0.00	0.00	L10-2410 01H BHL

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Good Times L10-2410 01H
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Project:	San Juan County, NM	**MD Reference:**	13' KB @ 6909.0ft (Original Well Elev)
Site:	S10-T24N-R10W (Good Times)	**North Reference:**	True
Well:	Good Times L10-2410 01H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	9 5/8"
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
797.0	0.00	0.00	797.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
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	
934.0	0.00	0.00	934.0	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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,349.0	0.00	0.00	1,349.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,624.0	0.00	0.00	1,624.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,759.0	0.00	0.00	1,759.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,374.0	0.00	0.00	2,374.0	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	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,124.0	0.00	0.00	3,124.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	
4,053.0	0.00	0.00	4,053.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	
4,242.0	0.00	0.00	4,242.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale

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Project:	San Juan County, NM	**MD Reference:**	13' KB @ 6909.0ft (Original Well Elev)
Site:	S10-T24N-R10W (Good Times)	**North Reference:**	True
Well:	Good Times L10-2410 01H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	
4,694.0	0.00	0.00	4,694.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4694' MD
4,700.0	0.60	269.67	4,700.0	0.0	0.0	0.0	10.00	10.00	
4,800.0	10.60	269.67	4,799.4	-0.1	-9.8	9.8	10.00	10.00	
4,827.1	13.30	269.67	4,825.9	-0.1	-15.4	15.4	10.00	10.00	Mancos Silt
4,900.0	20.60	269.67	4,895.6	-0.2	-36.6	36.6	10.00	10.00	
5,000.0	30.60	269.67	4,985.7	-0.5	-79.8	79.8	10.00	10.00	
5,088.2	39.42	269.67	5,057.9	-0.7	-130.4	130.4	10.00	10.00	Gallup Fn.
5,100.0	40.60	269.67	5,066.9	-0.8	-137.9	137.9	10.00	10.00	
5,200.0	50.60	269.67	5,136.7	-1.2	-209.3	209.3	10.00	10.00	
5,300.0	60.60	269.67	5,193.2	-1.7	-291.7	291.7	10.00	10.00	
5,400.0	70.60	269.67	5,234.4	-2.2	-382.6	382.6	10.00	10.00	
5,454.0	76.00	269.67	5,249.9	-2.5	-434.3	434.3	10.00	10.00	7" Casing Setting Depth"
5,500.0	80.60	269.67	5,259.3	-2.7	-479.4	479.4	10.00	10.00	
5,599.0	90.50	269.67	5,267.0	-3.3	-577.9	578.0	10.00	10.00	LP @ 5599' MD
5,600.0	90.50	269.67	5,266.9	-3.3	-578.9	578.9	0.00	0.00	
5,700.0	90.50	269.67	5,266.1	-3.9	-678.9	678.9	0.00	0.00	
5,800.0	90.50	269.67	5,265.2	-4.5	-778.9	778.9	0.00	0.00	
5,900.0	90.50	269.67	5,264.3	-5.0	-878.9	878.9	0.00	0.00	
6,000.0	90.50	269.67	5,263.5	-5.6	-978.9	978.9	0.00	0.00	
6,100.0	90.50	269.67	5,262.6	-6.2	-1,078.9	1,078.9	0.00	0.00	
6,200.0	90.50	269.67	5,261.7	-6.7	-1,178.9	1,178.9	0.00	0.00	
6,300.0	90.50	269.67	5,260.8	-7.3	-1,278.9	1,278.9	0.00	0.00	
6,400.0	90.50	269.67	5,260.0	-7.9	-1,378.9	1,378.9	0.00	0.00	
6,500.0	90.50	269.67	5,259.1	-8.5	-1,478.9	1,478.9	0.00	0.00	
6,600.0	90.50	269.67	5,258.2	-9.0	-1,578.9	1,578.9	0.00	0.00	
6,700.0	90.50	269.67	5,257.3	-9.6	-1,678.9	1,678.9	0.00	0.00	
6,800.0	90.50	269.67	5,256.5	-10.2	-1,778.9	1,778.9	0.00	0.00	
6,900.0	90.50	269.67	5,255.6	-10.7	-1,878.9	1,878.9	0.00	0.00	
7,000.0	90.50	269.67	5,254.7	-11.3	-1,978.9	1,978.9	0.00	0.00	
7,100.0	90.50	269.67	5,253.9	-11.9	-2,078.9	2,078.9	0.00	0.00	
7,200.0	90.50	269.67	5,253.0	-12.4	-2,178.8	2,178.9	0.00	0.00	
7,300.0	90.50	269.67	5,252.1	-13.0	-2,278.8	2,278.9	0.00	0.00	
7,400.0	90.50	269.67	5,251.2	-13.6	-2,378.8	2,378.9	0.00	0.00	
7,500.0	90.50	269.67	5,250.4	-14.2	-2,478.8	2,478.9	0.00	0.00	
7,600.0	90.50	269.67	5,249.5	-14.7	-2,578.8	2,578.9	0.00	0.00	
7,700.0	90.50	269.67	5,248.6	-15.3	-2,678.8	2,678.9	0.00	0.00	
7,800.0	90.50	269.67	5,247.7	-15.9	-2,778.8	2,778.9	0.00	0.00	
7,900.0	90.50	269.67	5,246.9	-16.4	-2,878.8	2,878.9	0.00	0.00	
8,000.0	90.50	269.67	5,246.0	-17.0	-2,978.8	2,978.9	0.00	0.00	
8,100.0	90.50	269.67	5,245.1	-17.6	-3,078.8	3,078.8	0.00	0.00	
8,200.0	90.50	269.67	5,244.3	-18.2	-3,178.8	3,178.8	0.00	0.00	
8,300.0	90.50	269.67	5,243.4	-18.7	-3,278.8	3,278.8	0.00	0.00	
8,400.0	90.50	269.67	5,242.5	-19.3	-3,378.8	3,378.8	0.00	0.00	
8,500.0	90.50	269.67	5,241.6	-19.9	-3,478.8	3,478.8	0.00	0.00	
8,600.0	90.50	269.67	5,240.8	-20.4	-3,578.8	3,578.8	0.00	0.00	
8,700.0	90.50	269.67	5,239.9	-21.0	-3,678.8	3,678.8	0.00	0.00	
8,800.0	90.50	269.67	5,239.0	-21.6	-3,778.8	3,778.8	0.00	0.00	
8,900.0	90.50	269.67	5,238.1	-22.2	-3,878.8	3,878.8	0.00	0.00	

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Site:	S10-T24N-R10W (Good Times)	**North Reference:**	True
Well:	Good Times L10-2410 01H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,000.0	90.50	269.67	5,237.3	-22.7	-3,978.7	3,978.8	0.00	0.00	
9,100.0	90.50	269.67	5,236.4	-23.3	-4,078.7	4,078.8	0.00	0.00	
9,200.0	90.50	269.67	5,235.5	-23.9	-4,178.7	4,178.8	0.00	0.00	
9,300.0	90.50	269.67	5,234.7	-24.4	-4,278.7	4,278.8	0.00	0.00	
9,400.0	90.50	269.67	5,233.8	-25.0	-4,378.7	4,378.8	0.00	0.00	
9,500.0	90.50	269.67	5,232.9	-25.6	-4,478.7	4,478.8	0.00	0.00	
9,600.0	90.50	269.67	5,232.0	-26.2	-4,578.7	4,578.8	0.00	0.00	
9,700.0	90.50	269.67	5,231.2	-26.7	-4,678.7	4,678.8	0.00	0.00	
9,800.0	90.50	269.67	5,230.3	-27.3	-4,778.7	4,778.8	0.00	0.00	
9,900.0	90.50	269.67	5,229.4	-27.9	-4,878.7	4,878.8	0.00	0.00	
10,000.0	90.50	269.67	5,228.5	-28.4	-4,978.7	4,978.8	0.00	0.00	
10,040.7	90.50	269.67	5,228.2	-28.7	-5,019.4	5,019.5	0.00	0.00	PBHL @ 10040' MD

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
L10-2410 01H BHL - plan hits target center - Point	0.00	359.96	5,228.2	-28.7	-5,019.4	1,937,813.14	2,700,899.49	36.325550	-107.908690

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
500.0	500.0	9 5/8"	9.625	12.250
5,454.0	5,249.9	7" Casing Setting Depth"	7.000	7.500

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
797.0	797.0	Ojo Alamo Ss.		-0.50	269.67
934.0	934.0	Kirtland Shale		-0.50	269.67
1,349.0	1,349.0	Fruitland Coal		-0.50	269.67
1,624.0	1,624.0	Pictured Cliffs Ss.		-0.50	269.67
1,759.0	1,759.0	Lewis Shale		-0.50	269.67
2,374.0	2,374.0	Cliffhouse Ss.		-0.50	269.67
3,124.0	3,124.0	Menefee Fn.		-0.50	269.67
4,053.0	4,053.0	Point Lookout Ss.		-0.50	269.67
4,242.0	4,242.0	Mancos Shale		-0.50	269.67
4,827.1	4,826.0	Mancos Silt		-0.50	269.67
5,088.2	5,059.0	Gallup Fn.		-0.50	269.67

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Good Times L10-2410 01H
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Project:	San Juan County, NM	**MD Reference:**	13' KB @ 6909.0ft (Original Well Elev)
Site:	S10-T24N-R10W (Good Times)	**North Reference:**	True
Well:	Good Times L10-2410 01H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
4,694.0	4,694.0	0.0	0.0	KOP @ 4694' MD
5,599.0	5,267.0	-3.3	-577.9	LP @ 5599' MD
10,040.7	5,228.2	-28.7	-5,019.4	PBHL @ 10040' MD

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

WELLHEAD BLOWOUT CONTROL SYSTEM

encana
natural gas

Well name and number:

Good Times L10-2410 01H