

CONFIDENTIAL**RECEIVED**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 13 2012

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

Farmington Field Office
Bureau of Land Management5 Lease Serial No
NO-G-0905-1759/NO-G-0902-17546 If Indian, Allottee or Tribe Name
NAVAJO ALLOTTEE

7 If Unit or CA Agreement, Name and No.

8 Lease Name and Well No
Good Times P34-24101H9 API Well No.
30-045-3536710 Field and Pool, or Exploratory
South Bisti-Gallup11 Sec, T R M or Blk and Survey or Area
Section 34, T24N, R10W NMPM12 County or Parish
San Juan13 State
NM1a. Type of work ☒ DRILL ☐ REENTER1b. 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 802023b. Phone No. (include area code)
720-876-39894 Location of Well (Report location clearly and in accordance with any State requirements *)
At surface 660' FSL and 330' FEL Section 34, T24N, R10W
At proposed prod zone 660' FSL and 330' FWL Section 34, T24N, R10W14 Distance in miles and direction from nearest town or post office*
+/- 36.8 miles SE of Farmington, NM15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any)
BHL is 330' from west lease line16 No. of acres in lease
NO-G-0905-1759 225 acres
NO-G-0902-1754 160 acres17 Spacing Unit dedicated to this well
320 acres (S2 Sec. 34)18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft
Martinez Begay Com is 235' North of Wellbore19 Proposed Depth
6032' TVD/9164' MD20 BLM/BIA Bond No. on file
COB-00023521 Elevations (Show whether DF, KDB, RT, GL, etc.)
6759' GL, 6773' KB22 Approximate date work will start*
12/01/201223. Estimated duration
45 days

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

24. Attachments

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

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

- Well plat certified by a registered surveyor.
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).

- Bond to cover the operations unless covered by an existing bond on file (see item 20 above)
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25 Signature *Brenda R Linster*
Title Regulatory AdvisorName (Printed/Typed)
Brenda R. Linster

Date 03-28-12

Approved by *[Signature]*
Title AFM

Name (Printed/Typed)

Date 9/4/12

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)

* See change to plug in vertical Pilot hole
Hold C104
for Directional Survey and "As Drilled" plat

Hold C104

*(Instructions on page 2)

for Directional Survey and "As Drilled" plat

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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.

NMOCD

SEP 18 2012 ca

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

NOTIFY AZTEC OCD 24 HRS.

PRIOR TO CASING & CEMENT

Hold C104
for Directional Survey and "As Drilled" plat

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

RECEIVED
State of New Mexico
Energy, Minerals & Natural Resources Department
APR 13 2012

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

OIL CONSERVATION DIVISION

1220 South St. Francis Drive, Santa Fe, NM 87505
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35367	*Pool Code 5860	*Pool Name SOUTH BISTI - GALLUP
*Property Code 39434	*Property Name GOOD TIMES P34-2410	*Well Number 01H
*OGRID No. 282327	*Operator Name ENCANA OIL & GAS (USA) INC.	*Elevation 6759'

¹⁰ Surface Location

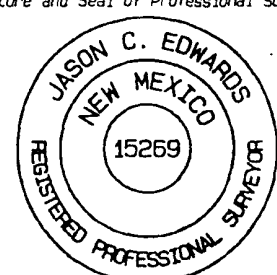
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	34	24N	10W		660	SOUTH	330	EAST	SAN JUAN

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
M	34	24N	10W		660	SOUTH	330	WEST	SAN JUAN

¹² Dedicated Acres 320.0 Acres - (S/2)	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

¹⁶ S88°32'W 2616.24' (RECORD) S88°40'27"W 2616.86' (MEASURED)	S88°32'W 2616.24' (RECORD) S88°31'34"W 2615.86' (MEASURED)	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: <u>Brenda R. Linster</u> Date: <u>7/13/11</u> Printed Name: <u>Brenda R. Linster</u> E-mail Address: <u>brenda.linster@encana.com</u>
34 BOTTOM-HOLE LAT: 36.26473°N LONG: 107.89081°W DATUM: NAD1927 BOTTOM-HOLE LAT: 36.26474°N LONG: 107.89143°W DATUM: NAD1983 SURFACE LOCATION LAT: 36.26483°N LONG: 107.87526°W DATUM: NAD1927 SURFACE LOCATION LAT: 36.26484°N LONG: 107.87588°W DATUM: NAD1983 Gallup Penetration Point 660' FSL 424' FEL S89°36.2'W 4585.0' N89°33'E 2622.84' (RECORD) N89°37'11"E 2624.49' (MEASURED) N89°33'E 2622.84' (RECORD) N89°35'17"E 2622.46' (MEASURED)		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. Date of Survey: <u>JULY 13, 2011</u> Signature and Seal of Professional Surveyor  <u>JASON C. EDWARDS</u> 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 P34-2410 01H

660' FSL & 330' FEL, Section 34, T24N, R10W, N.M.P.M., San Juan County, NM

Latitude: 36.26484°N Longitude: 107.87588°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 3.1 miles to fork in road;

Go left (South-westerly) remaining on State Hwy #57 for 2.6 miles to County Road #7635;

Go right (Westerly) on County Road #7635 for 0.9 miles to fork in road;

Go left (South-westerly) remaining on County Road #7635 for 1.4 miles to fork in road;

Go left which is straight (South-westerly) remaining on County Road #7635 for 0.4 miles to fork in road;

Go left (South-easterly) for 0.5 miles to new access on left-hand side of existing roadway which continues for 60' to staked location.

Good Times P34-2410 01H

**SHL: SESE Section 34, T24N, R10W
660 FSL and 330 FEL**

**BHL: SWSW Section 34, T24N, R10W
660 FSL and 330 FWL**

San Juan County, New Mexico

Lease Number: NO-G-0902-1754 and NO-G-0905-1759

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

1. ESTIMATED TOPS OF GEOLOGICAL MARKERS (TVD)

The estimated tops of important geologic markers are as follows.

<u>Formation</u>	<u>Depth (TVD)</u>
Ojo Alamo	393'
Kirtland	523'
Fruitland Coal	808'
Pictured Cliffs	1180'
Lewis	1361'
Cliffhouse	1986'
Menefee	2543'
Point Lookout	3581'
Mancos	3783'
Gallup	4569'
Upper Carlile	5097'
Juana Lopez	5200'
Lower Carlile	5300'
Greenhorn	5552'
Graneros	5612'
Dakota	5652'
Morrison	5932'

The referenced surface elevation is 6759', KB 6773'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth (TVD)</u>
Water	Ojo Alamo	393'
Gas	Fruitland Coal	808'
Gas	Pictured Cliffs	1180'
Gas	Cliffhouse	1986'
Gas	Point Lookout	3581'
Oil/Gas	Mancos	3783'
Oil/Gas	Dakota	5652'

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

3. PRESSURE CONTROL

- Pressure control equipment and configuration will be designed to meet 2M standards.
- Working pressure on rams and BOPE will be 3,000 psi
- Function test and visual inspection of the BOP will be conducted daily and noted in the IADC Daily Drilling Report.
- The Annular BOP will be pressure tested to a minimum of 50 percent of its rated working pressure.

Good Times P34-2410 01H**SHL: SESE Section 34, T24N, R10W
660 FSL and 330 FEL****BHL: SWSW Section 34, T24N, R10W
660 FSL and 330 FWL****San Juan County, New Mexico****Lease Number: NO-G-0902-1754 and NO-G-0905-1759**

- e) Blind and Pipe Rams/BOP will be tested against a test plug to either 70 percent of the casings internal yield pressure or 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'	26"	20"	94#	H40, STC New
Surface	0'-500'	17 1/2"	13 3/8"	48#	H40, STC New
Intermediate	0'-4000'	12 1/4"	9 5/8"	40#	J55, STC New
Production Liner	3800'-9164'	8 1/2"	5 1/2"	17#	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
13 3/8"	48	H40	STC	740	1730	322	1.125	1.1	1.5
9 5/8"	40	J55	STC	2570	3950	452	1.125	1.1	1.5
5 1/2"	17	B80	LTC	6290	7740	320	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.

Good Times P34-2410 01H**SHL: SESE Section 34, T24N, R10W
660 FSL and 330 FEL****BHL: SWSW Section 34, T24N, R10W
660 FSL and 330 FWL****San Juan County, New Mexico****Lease Number: NO-G-0902-1754 and NO-G-0905-1759**

- 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.

Casing	Depth	Cement Volume (sacks)	Cement Type&Yield	Designed TOC	Centralizers
Conductor	60'	80sk	Redi-mix Construction Grade Cement	Surface	None
Surface	500'	Lead: 130sk Tail: 100sk	Lead: Varicem Poz Cmt 1% Cal-Seal 12 7ppg, 1.78cuft/sk Tail: Type III Prem Plus 6% Salt 13 5ppg 1.77cuft/sk	Surface	1 turbolizer per joint on bottom 3 joints
Intermediate	4000'	50% open hole excess Lead 1145sk Tail 176sk	Lead. Fillseal Poz Cmt 1% foam 13ppg, 1.43cuft/sk Tail HalCem Class H 1% foam 13ppg 1.43cuft/sk	Surface	1 per joint for bottom 3 joints, 1 every 3 joints for remaining joints
Production Liner*	3800'-9164'	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 and core 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.

Good Times P34-2410 01H**SHL: SESE Section 34, T24N, R10W**
660 FSL and 330 FEL**BHL: SWSW Section 34, T24N, R10W**
660 FSL and 330 FWL**San Juan County, New Mexico****Lease Number: NO-G-0902-1754 and NO-G-0905-1759**

Well Phase	Description	Proposed Depth (TVD/MD)	Formation
1	Vertical Pilot Hole	6032'/6032'	Morrison
2	Horizontal Lateral	4826'/9164'	Gallup

Proposed Plug Back Procedure:

TOPS	TVD
KOP	4253'
Graneros Shale	5612'
Dakota	5652'

Set 2 cement plugs in 8 1/2" hole

Plug A: Bottom plug over Dakota

Plug B: Kick plug at KOP

Plug A must be cemented to at least 100' above Graneros formation top BP

Plug A

1. TIH to TD of vertical pilot hole at 6032'
2. Spot 400' cement plug from 5632' - 6032'
 - a. 135sx of Class A cement (1.18ft³/sk yield)
 - b. Spot tuned spacer
3. Pull uphole and reverse out
4. TIH and tag plug, proceed when cement is solid
5. Fill hole and move uphole to spot kick plug

Plug B

1. Spot 300' kick plug from 4153' - 4453'
 - a. 91sx of Class A cement with salt (1.3ft³/sk yield)
 - 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) Phase 1, Vertical Pilot Hole:**

Hole Size (in)	TVD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
26"	0-60'	Fresh Water	8.3-9.2	38-100	4-28
17 1/2"	0-500'	Fresh Water	8.4-8.6	60-70	NC
12 1/4"	500-4000'	Fresh Water LSND	8.5-8.8	40-50	8-10
8 1/2"	4000-6032'	Fresh Water LSND	8.5-8.8	40-50	8-10

b) Phase 2, Kick off to Horizontal Lateral:

Hole Size (in)	TVD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
8 1/2"	4253' (KOP)-9164'	Synthetic Oil Based Mud	8.6-9.0	15-25	<15

Good Times P34-2410 01H

**SHL: SESE Section 34, T24N, R10W
660 FSL and 330 FEL**

**BHL: SWSW Section 34, T24N, R10W
660 FSL and 330 FWL**

San Juan County, New Mexico

Lease Number: NO-G-0902-1754 and NO-G-0905-1759

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

7. TESTING, CORING and LOGGING

- a) Drill Stem Testing – None anticipated
- b) Coring – Obtain core starting in the Mancos formation. Specific cored intervals will be determined real time by onsite geologists.
- c) Mud Logging – Mud loggers will be on location from Surface Casing 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 +/- 2,823 psi based on a 9.0 ppg at 6032' TVD of the vertical pilot hole. 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 December 1, 2012. 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 45 days.

OC: Sec 34-T24N-R10W
 nty. San Juan
 LL: Good Times P34-2410 01H

WELL SUMMARY



ENG: J. Fox/A. 2/23/12
 RIG:
 GLE: 6759
 RKBE:

MWD	OPEN HOLE	FORM	DEPTH			HOLE	CASING	MW	DEVIATION
LWD	LOGGING		TVD	MD		SIZE	SPECS	MUD TYPE	INFORMATION
		Nacimiento	60	60'		26	20" 94# 80sx Type I Neat 48 8ppg cmt	Fresh wtr 8 3-9 2	
Surveys r csg is run	None Mud logger onsite at spud	Ojo Alamo	393			17 1/2	13 3/8" 48ppf H40 STC TOC @ surface	Fresh wtr 8 4-8 6	Vertical <1°
Surveys very 500'		Kirtland Shale Fruitland Coal Pictured Cliffs Ss Lewis Shale Cliffhouse Ss Menefee Fn Point Lookout Ss Mancos Sh	523 808 1180 1361 1986 2543 3581 3783 4000			12 1/4	9 5/8" 40ppf J55 STC TOC @ surface	Fresh Wtr 8 5-8 8	Vertical <1°
Surveys very 500' Gyro at CP MWD Gamma directional	Triple Combo	KICK OFF PT	4253			8 1/2	5 1/2" 17ppf I/L80 LTC Running external swellable csg packers for isolation of prod string	Fresh Wtr LSND-in pilot 8 5-8 8 Switch to OBM at K/O 8 6-9 0	KOP 4253 10 deg/100'
		Gallup Top horz target Prodelta Gallup Upper Carlile Shale Juana Lopez Sh Lower Carlile Sh Greenhorn LS Graneros Sh Dakota Grp Morrison Pilot Hole TD	4569 4826 4873 5097 5200 5300 5552 5612 5652 5932 6032	5158			4006' Lateral	8 6-9 0 OBM	7 deg up dip 4790' TVD TD = 9164' MD

NOTES:

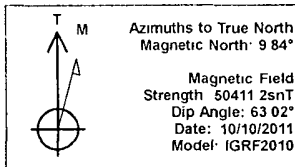
Drill with 26" bit to 60', set 20" 94# conductor pipe
 Drill surface to 500', R&C 13 3/8" casing
 N/U BOP and surface equipment
 Drill to 4000' , 12 1/4" hole size
 Run OH logs, R&C 9 5/8" casing, circ cmt 50' into sur csg shoe
 Drill 8 1/2" hole to core point, core Gallup & possibly Dakota, confirm coring details
 RIH with 8 1/2" bit to drill 150' rathole, run OH logs
 Plugback to 4000' with cmt
 PU directional tools and K/O cmt plug and start curve at 10deg/100' build rate
)Drill curve to 20-30deg then switch over to OBM system
)Land at 90deg, drill 4006' lateral to 9164', run 5 1/2" liner with external swellable csg packers



Project San Juan Co., NM (NAD83)
 Site: Sec 34-T24N-R10W
 Well: Good Times P34-2410 01H
 Wellbore: Wellbore #1
 Design: Design #1
 Lat 36.264840
 Long -107.875880
 Pad GL 6759.00
 KB. WELL @ 6773.00usft

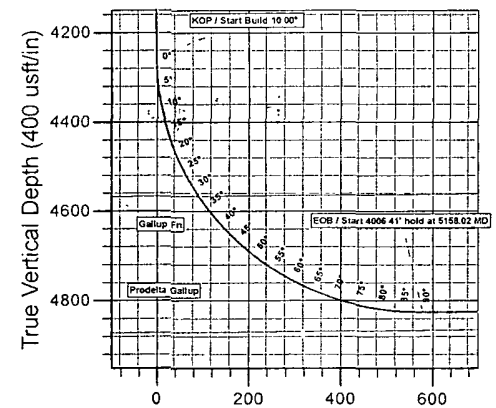


PROJECT DETAILS: San Juan Co., NM (NAD83)	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Western Zone
System Datum:	Mean Sea Level



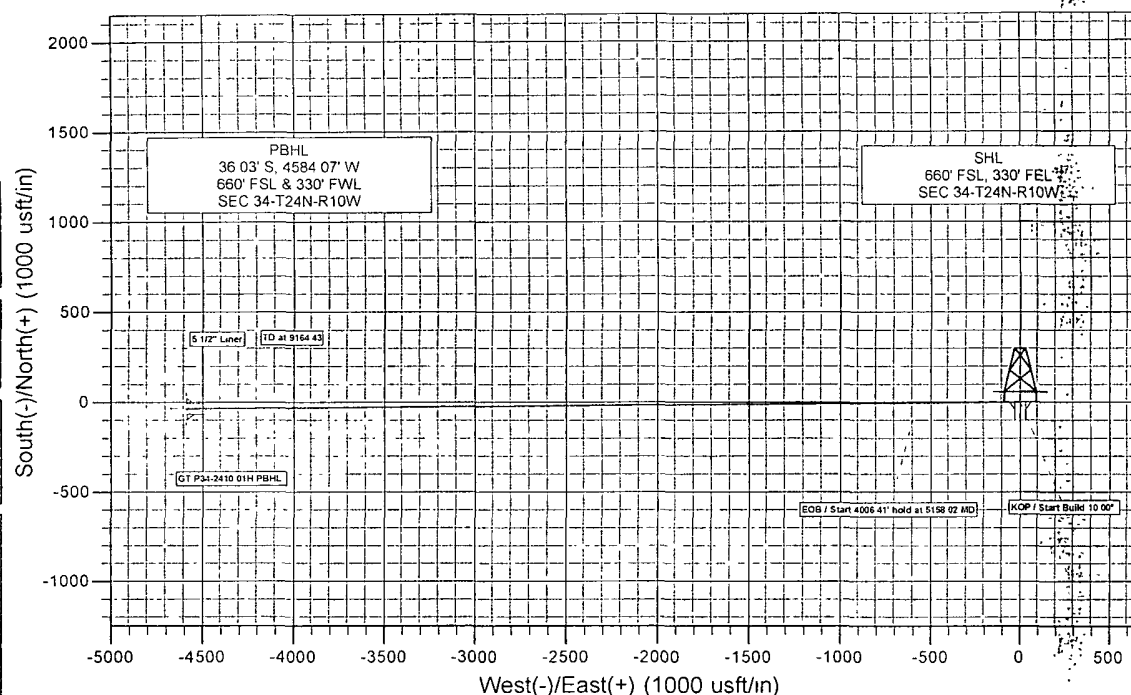
WELL DETAILS: Good Times P34-2410 01H						
+N/-S	+E/-W	Northing	Ground Level Easting	6759.00 Latitude	-107.875880 Longitude	Slot
0.00	0.00	1915703.374	2710549.112	36.264840		

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
GT P34-2410 01H PBHL	4790.99	-36.03	-4584.07	36.264740	-107.891430	Point

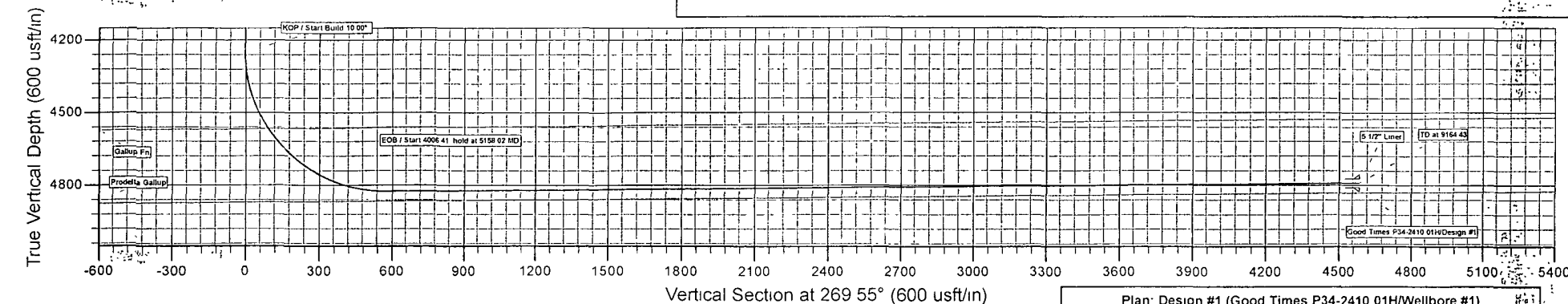


CASING DETAILS			
TVD	MD	Name	Size
500.00	500.00	13 3/8" Csg	13-3/8
4000.00	4000.00	9 5/8" Csg	9-5/8
4790.99	9164.43	5 1/2" Liner	5-1/2

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
393.00	393.00	Ojo Alamo Ss
523.00	523.00	Kirtland Shale
808.00	808.00	Fruitland Coal
1180.00	1180.00	Pictured Cliffs Ss
1361.00	1361.00	Lewis Shale
1986.00	1986.00	Cliffhouse Ss
2543.00	2543.00	Menefer Fm
3581.00	3581.00	Point Lookout Ss
3783.00	3783.00	Mancos Shale
4568.18	4568.72	Gallup Fm.



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP / Start Build 10.00°
4253.02	0.00	0.00	4253.02	0.00	0.00	0.00	0.00	0.00	EOB / Start 4006.41° hold at 5158.02 MD
5158.02	90.50	269.55	4825.96	-4.54	-577.94	10.00	269.55	577.96	TD at 9164.43
9164.43	90.50	269.55	4790.99	-36.03	-4584.07	0.00	0.00	4584.21	



Plan: Design #1 (Good Times P34-2410 01H/Wellbore #1)
Created By: Bret Wolford Date: 22 12, October 10 2011

Database: EDMDBBW
Company: Encana Oil & Gas
Project: San Juan Co., NM (NAD83)
Site: Sec.34-T24N-R10W
Well: Good Times P34-2410 01H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Good Times P34-2410 01H
TVD Reference: WELL @ 6773 00usft
MD Reference: WELL @ 6773.00usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	San Juan Co., NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site		Sec 34-T24N-R10W			
Site Position:		Northing:	1,915,703.374 usft	Latitude:	36.264840
From:	Lat/Long	Easting:	2,710,549.112 usft	Longitude:	-107.875880
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	-0.03 °

Well	Good Times P34-2410 01H					
Well Position	+N/-S	0.00 usft	Northing:	1,915,703.374 usft	Latitude:	36.264840
	+E/-W	0.00 usft	Easting:	2,710,549.112 usft	Longitude:	-107.875880
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,759.00 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/10/11	9.84	63.02	50,411

Design	Design #1			
Audit Notes:				
Version:	Phase	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	4,790.99	0.00	0.00	269.55

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,253.02	0.00	0.00	4,253.02	0.00	0.00	0.00	0.00	0.00	0.00	
5,158.02	90.50	269.55	4,825.96	-4.54	-577.94	10.00	10.00	0.00	269.55	GT P34-2410 01H PB
9,164.43	90.50	269.55	4,790.99	-36.03	-4,584.07	0.00	0.00	0.00	0.00	GT P34-2410 01H PB

Database: EDMDBBW
Company: Encana Oil & Gas
Project: San Juan Co., NM (NAD83)
Site: Sec 34-T24N-R10W
Well: Good Times P34-2410 01H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Good Times P34-2410 01H
TVD Reference: WELL @ 6773 00usft
MD Reference: WELL @ 6773 00usft
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 (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo Ss.									
393.00	0.00	0.00	393.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8" Csg.									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland Shale									
523.00	0.00	0.00	523.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland Coal									
808.00	0.00	0.00	808.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Pictured Cliffs Ss.									
1,180.00	0.00	0.00	1,180.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
Lewis Shale									
1,361.00	0.00	0.00	1,361.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliffhouse Ss.									
1,986.00	0.00	0.00	1,986.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Menefee Fn.									
2,543.00	0.00	0.00	2,543.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Point Lookout Ss.									
3,581.00	0.00	0.00	3,581.00	0.00	0.00	0.00	0.00	0.00	0.00

Database: EDMDBBW
Company: Encana Oil & Gas
Project: San Juan Co., NM (NAD83)
Site: Sec 34-T24N-R10W
Well: Good Times P34-2410 01H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Good Times P34-2410 01H
TVD Reference: WELL @ 6773.00usft
MD Reference: WELL @ 6773 00usft
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 (°/100usft)	Turn Rate (°/100usft)
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
Mancos Shale									
3,783.00	0.00	0.00	3,783.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Csg.									
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP / Start Build 10.00°									
4,253.02	0.00	0.00	4,253.02	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	4.70	269.55	4,299.95	-0.02	-1.92	1.92	10.00	10.00	0.00
4,350.00	9.70	269.55	4,349.54	-0.06	-8.19	8.19	10.00	10.00	0.00
4,400.00	14.70	269.55	4,398.39	-0.15	-18.75	18.75	10.00	10.00	0.00
4,450.00	19.70	269.55	4,446.14	-0.26	-33.53	33.53	10.00	10.00	0.00
4,500.00	24.70	269.55	4,492.42	-0.41	-52.41	52.41	10.00	10.00	0.00
4,550.00	29.70	269.55	4,536.88	-0.59	-75.26	75.26	10.00	10.00	0.00
Gallup Fn.									
4,586.72	33.37	269.55	4,568.18	-0.74	-94.46	94.46	10.00	10.00	0.00
4,600.00	34.70	269.55	4,579.18	-0.80	-101.89	101.89	10.00	10.00	0.00
4,650.00	39.70	269.55	4,618.99	-1.04	-132.11	132.11	10.00	10.00	0.00
4,700.00	44.70	269.55	4,656.02	-1.30	-165.68	165.69	10.00	10.00	0.00
4,750.00	49.70	269.55	4,689.98	-1.59	-202.35	202.36	10.00	10.00	0.00
4,800.00	54.70	269.55	4,720.62	-1.90	-241.85	241.85	10.00	10.00	0.00
4,850.00	59.70	269.55	4,747.70	-2.23	-283.86	283.87	10.00	10.00	0.00
4,900.00	64.70	269.55	4,771.01	-2.58	-328.07	328.08	10.00	10.00	0.00
4,950.00	69.70	269.55	4,790.38	-2.94	-374.15	374.16	10.00	10.00	0.00
5,000.00	74.70	269.55	4,805.67	-3.32	-421.74	421.75	10.00	10.00	0.00
5,050.00	79.70	269.55	4,816.74	-3.70	-470.48	470.49	10.00	10.00	0.00
5,100.00	84.70	269.55	4,823.53	-4.09	-520.00	520.01	10.00	10.00	0.00
5,150.00	89.70	269.55	4,825.97	-4.48	-569.92	569.94	10.00	10.00	0.00
EOB / Start 4006.41° hold at 5158.02 MD									
5,158.02	90.50	269.55	4,825.96	-4.54	-577.94	577.96	10.00	10.00	0.00
5,200.00	90.50	269.55	4,825.59	-4.87	-619.92	619.94	0.00	0.00	0.00
5,300.00	90.50	269.55	4,824.72	-5.66	-719.91	719.93	0.00	0.00	0.00
5,400.00	90.50	269.55	4,823.84	-6.45	-819.90	819.93	0.00	0.00	0.00
5,500.00	90.50	269.55	4,822.97	-7.23	-919.90	919.92	0.00	0.00	0.00
5,600.00	90.50	269.55	4,822.10	-8.02	-1,019.89	1,019.92	0.00	0.00	0.00
5,700.00	90.50	269.55	4,821.23	-8.80	-1,119.88	1,119.92	0.00	0.00	0.00
5,800.00	90.50	269.55	4,820.35	-9.59	-1,219.88	1,219.91	0.00	0.00	0.00
5,900.00	90.50	269.55	4,819.48	-10.38	-1,319.87	1,319.91	0.00	0.00	0.00
6,000.00	90.50	269.55	4,818.61	-11.16	-1,419.86	1,419.91	0.00	0.00	0.00
6,100.00	90.50	269.55	4,817.74	-11.95	-1,519.85	1,519.90	0.00	0.00	0.00
6,200.00	90.50	269.55	4,816.86	-12.73	-1,619.85	1,619.90	0.00	0.00	0.00
6,300.00	90.50	269.55	4,815.99	-13.52	-1,719.84	1,719.89	0.00	0.00	0.00
6,400.00	90.50	269.55	4,815.12	-14.31	-1,819.83	1,819.89	0.00	0.00	0.00
6,500.00	90.50	269.55	4,814.25	-15.09	-1,919.83	1,919.89	0.00	0.00	0.00
6,600.00	90.50	269.55	4,813.37	-15.88	-2,019.82	2,019.88	0.00	0.00	0.00
6,700.00	90.50	269.55	4,812.50	-16.66	-2,119.81	2,119.88	0.00	0.00	0.00
6,800.00	90.50	269.55	4,811.63	-17.45	-2,219.81	2,219.88	0.00	0.00	0.00
6,900.00	90.50	269.55	4,810.75	-18.24	-2,319.80	2,319.87	0.00	0.00	0.00
7,000.00	90.50	269.55	4,809.88	-19.02	-2,419.79	2,419.87	0.00	0.00	0.00

Database: EDMDBBW
Company: Encana Oil & Gas
Project: San Juan Co., NM (NAD83)
Site: Sec 34-T24N-R10W
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Design: Design #1

Local Co-ordinate Reference: Well Good Times P34-2410 01H
TVD Reference: WELL @ 6773.00usft
MD Reference: WELL @ 6773.00usft
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 (°/100usft)	Turn Rate (°/100usft)
7,100.00	90 50	269 55	4,809 01	-19 81	-2,519 79	2,519 86	0 00	0.00	0 00
7,200 00	90 50	269 55	4,808 14	-20 59	-2,619 78	2,619 86	0 00	0 00	0 00
7,300.00	90.50	269 55	4,807 26	-21 38	-2,719 77	2,719 86	0 00	0 00	0 00
7,400.00	90 50	269 55	4,806 39	-22.17	-2,819 77	2,819 85	0 00	0.00	0.00
7,500 00	90 50	269 55	4,805 52	-22 95	-2,919 76	2,919 85	0 00	0 00	0 00
7,600.00	90 50	269 55	4,804 65	-23 74	-3,019.75	3,019 84	0 00	0.00	0.00
7,700 00	90.50	269 55	4,803 77	-24 52	-3,119 74	3,119 84	0.00	0 00	0.00
7,800 00	90 50	269 55	4,802 90	-25.31	-3,219.74	3,219 84	0.00	0 00	0 00
7,900 00	90 50	269 55	4,802 03	-26.10	-3,319 73	3,319 83	0 00	0 00	0 00
8,000 00	90 50	269 55	4,801 16	-26.88	-3,419 72	3,419 83	0 00	0.00	0 00
8,100 00	90 50	269 55	4,800.28	-27 67	-3,519 72	3,519 83	0 00	0 00	0 00
8,200 00	90 50	269 55	4,799 41	-28 45	-3,619 71	3,619 82	0.00	0 00	0 00
8,300 00	90 50	269 55	4,798 54	-29 24	-3,719 70	3,719 82	0 00	0 00	0.00
8,400 00	90.50	269 55	4,797.66	-30 03	-3,819 70	3,819 81	0 00	0 00	0 00
8,500 00	90.50	269 55	4,796 79	-30.81	-3,919.69	3,919 81	0.00	0 00	0 00
8,600 00	90 50	269 55	4,795 92	-31 60	-4,019 68	4,019 81	0.00	0 00	0 00
8,700.00	90 50	269 55	4,795 05	-32 38	-4,119 68	4 119 80	0 00	0 00	0 00
8,800 00	90 50	269 55	4,794 17	-33.17	-4,219 67	4,219 80	0 00	0 00	0 00
8,900.00	90 50	269 55	4,793 30	-33 96	-4,319 66	4,319 80	0 00	0.00	0 00
9,000 00	90.50	269 55	4,792 43	-34 74	-4,419 65	4,419 79	0 00	0 00	0 00
9,100 00	90 50	269 55	4,791 56	-35 53	-4,519 65	4,519.79	0 00	0 00	0 00
TD at 9164.43 - GT P34-2410 01H PBHL									
9,164 43	90 50	269 55	4,790 99	-36 03	-4,584.07	4,584 21	0 00	0 00	0 00

Design 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 P34-2410 01H PBHL - plan hits target center - Point	0 00	0 00	4,790 99	-36 03	-4,584.07	1,915,669 353	2,705,965.024	36.264740	-107.891430

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
9,164.43	4,790 99	5 1/2" Liner	5-1/2	6
500.00	500.00	13 3/8" Csg	13-3/8	17-1/2
4,000 00	4,000.00	9 5/8" Csg	9-5/8	12-1/4

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Design: Design #1

Local Co-ordinate Reference: Well Good Times P34-2410 01H
TVD Reference: WELL @ 6773.00usft
MD Reference: WELL @ 6773 00usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
393 00	393 00	Ojo Alamo Ss		-0 50	269 55
523.00	523 00	Kirtland Shale		-0 50	269 55
808.00	808 00	Fruitland Coal		-0 50	269 55
1,180 00	1,180 00	Pictured Cliffs Ss		-0 50	269 55
1,361 00	1,361 00	Lewis Shale		-0.50	269.55
1,986 00	1,986 00	Cliffhouse Ss		-0 50	269 55
2,543 00	2,543.00	Menefee Fn		-0.50	269 55
3,581 00	3,581 00	Point Lookout Ss		-0 50	269.55
3,783 00	3,783 00	Mancos Shale		-0.50	269 55
4,586.72	4,569 00	Gallup Fn		-0 50	269 55

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,253 02	4,253 02	0.00	0 00	KOP / Start Build 10 00°
5,158 02	4,825 96	-4 54	-577 94	EOB / Start 4006 41' hold at 5158 02 MD
9,164 43	4,790 99	-36 03	-4,584 07	TD at 9164 43

natural gas

Good Times P34-2410 01H

