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Form 3160-3
(August 2007)

OCT 17 2012

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Farmington Field Office
Bureau of Land Management

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. NM 8005
6. If Indian, Allottee or Tribe Name N/A
7. If Unit or CA Agreement, Name and No. N/A
8. Lease Name and Well No. Good Times D06-2309 01H
9. API Well No. 30-045-35419
10. Field and Pool, or Exploratory South Bisti-Gallup
11. Sec., T. R. M. or Blk. and Survey or Area Section 6, T23N, R9W 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)
720-876-5331

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

At surface ^D 210' FNL and 667' FWL Section 6, T23N, R9W

At proposed prod. zone ^M 330' FSL and 660' FWL Section 6, T23N, R9W

14. Distance in miles and direction from nearest town or post office*
+/- 7.8 miles west from intersection of US Hwy 550 and CR 7800, in Bloomfield, NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
BHL is 210' from north lease line

16. No. of acres in lease
NM 8005 - 2,406.65

17. Spacing Unit dedicated to this well
322.6 acres (Lots 3-7, SENW, E2SW of Sec 6 T23N R9W)

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
BIG YAZZIE 1 is 2,672.8' from the wellbore

19. Proposed Depth
4824' TVD/ 9380' MD

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6802' GL, 6815' KB

22. Approximate date work will start*
06/21/2013

23. Estimated duration
25 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:

- 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 *Holly Hill* Name (Printed/Typed) Holly Hill Date 10/16/12

Title Regulatory Analyst

Approved by (Signature) *[Signature]* Name (Printed/Typed) Office FEO Date 2/1/13

Title AEM

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

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.

CONFIDENTIAL

HOLD C104 FOR NSL, MSP, DHC

This action is subject to technical and procedural review pursuant to 43 CFR 3162.2 and appeal pursuant to 43 CFR 3165.4

Hold C104
for Directional Survey
and "As Drilled" plat
NMOCD
AV

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

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

MAR 28 2013 ca

Hold C104

for Directional Survey and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

DISTRICT I
1620 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
611 S. First St., Artesia, N.M. 86810
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Grande Ed., Artesia, N.M. 87410
Phone: (505) 334-5178 Fax: (505) 334-5170

DISTRICT IV
1820 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3483

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

RECEIVED

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Farmington Field Office

10/17/2012

¹ API Number 30-045-35419	² Pool Code	³ Pool Name SOUTH BISTI-GALLUP
⁴ Property Code 39783	⁵ Property Name GOOD TIMES D06-2309	
⁶ Well Number 01H	⁷ Operator Name ENCANA OIL & GAS (USA) INC.	
⁸ OGRID No. 282327	⁹ Elevation 6802'	

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
D	6	23N	9W	4	210'	NORTH	667'	WEST	SAN JUAN

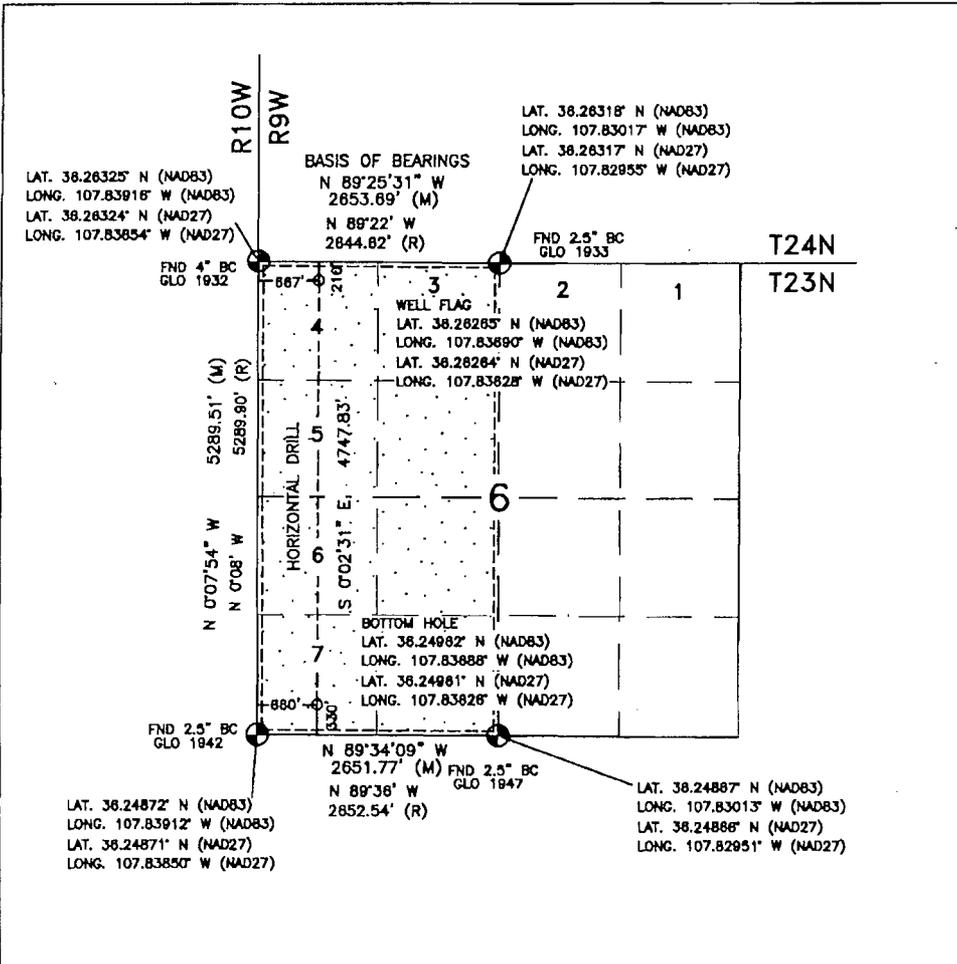
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	23N	9W	7	330'	SOUTH	660'	WEST	SAN JUAN

¹² Dedicated Acres PROJECT AREA 322.80 ACRES W/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

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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 this Division.

Brenda R. Linster 10/16/12
Signature Date
Brenda R. Linster
Printed Name
brenda.linster@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.

AUGUST 27, 2012
Date of Survey
Signature and Seal of Professional Surveyor:
David Russell
REGISTERED PROFESSIONAL LAND SURVEYOR
NEW MEXICO
10201
DAVID RUSSELL
Certificate Number 10201

ENCANA OIL & GAS (USA) INC.

GOOD TIMES D06-2309 #01H
210' FNL & 667' FWL
LOCATED IN THE NW/4 NW/4 OF SECTION 6,
T23N, R9W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HWY 550 & CR 7800, TRAVEL WESTERLY ON CR 7800 FOR 4.0 MILES TO THE END OF THE PAVEMENT.
- 2) CONTINUE ON CR 7800 FOR 2.3 MILES.
- 3) TURN RIGHT ONTO CR 7825 AND GO 0.5 MILES TO "Y" INTERSECTION.
- 4) CONTINUE RIGHT AND GO 0.2 MILES.
- 5) TURN RIGHT AND GO 0.8 MILES WHERE ACCESS IS FLAGGED ON RIGHT SIDE OF ROAD.

WELL FLAG LOCATED AT LAT. 36.26265° N, LONG. 107.83690° W (NAD 83).

JOB No.: ENC016_REV1
DATE: 10/04/12



**Scorpion Survey &
Consulting, L.L.C.**
55 County Road 3312
Aztec, New Mexico 87410
(505) 333-2945

Good Times D06-2309 01H
 SHL: NWNW Section 6, T23N, R9W
 210 FNL and 667 FWL
 BHL: SWSW Section 6, T23N, R9W
 330 FSL and 660 FWL
 San Juan County, New Mexico
 Lease Number: NM 8005

**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	510'
Kirtland	625'
Fruitland Coal	905'
Pictured Cliffs	1247'
Lewis	1404'
Cliffhouse	1981'
Menefee	2582'
Point Lookout	3658'
Mancos	3826'
Gallup	4635'

The referenced surface elevation is 6802', KB 6815'

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	510'
Gas	Fruitland Coal	905'
Gas	Pictured Cliffs	1247'
Gas	Cliffhouse	1981'
Gas	Point Lookout	3658'
Oil/Gas	Mancos	3826'

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.

Good Times D06-2309 01H

SHL: NWNW Section 6, T23N, R9W
210 FNL and 667 FWL

BHL: SWSW Section 6, T23N, R9W
330 FSL and 660 FWL

San Juan County, New Mexico

Lease Number: NM 8005

- 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'-5029'MD	8 1/2"	7"	26#	J55, LTC New
Production Liner	4829'-9380'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 D06-2309 01H
 SHL: NWNW Section 6, T23N, R9W
 210 FNL and 667 FWL
 BHL: SWSW Section 6, T23N, R9W
 330 FSL and 660 FWL
 San Juan County, New Mexico
 Lease Number: NM 8005

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	4854'TVD/ 5029'MD	30% open hole excess Lead: 155sk Tail: 368sk	Lead: PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuf/sk Tail: Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuf/sk	Surface	1 per joint for bottom 3 joints, 1 every 3 joints for remaining joints
Production Liner*	4829'MD- 9380'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	5170'/5170'	Gallup
2	Horizontal Lateral	4824'/9380'	Gallup

Good Times D06-2309 01H
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 330 FSL and 660 FWL
 San Juan County, New Mexico
 Lease Number: NM 8005

Proposed Plug Back Procedure:
 KOP 4309'

Set kick plug at KOP

1. Spot 300' kick plug from 4209' – 4509'
 - 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) 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"	500-5170'	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"	4309' (KOP)- 4854' (5029'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"	5029'MD- 9380'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 with the Surface Use Plan of Operations.

Good Times D06-2309 01H

SHL: NWNW Section 6, T23N, R9W
210 FNL and 667 FWL

BHL: SWSW Section 6, T23N, R9W
330 FSL and 660 FWL

San Juan County, New Mexico

Lease Number: NM 8005

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 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 +/- 2,420 psi based on a 9.0 ppg at 5170' 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 June 21, 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.

MWD LWD		OPEN HOLE LOGGING	FORM	DEPTH		HOLE SIZE	CASING SPECS	MW MUD TYPE	DEVIATION INFORMATION
				TVD	MD				
				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 Mud logger onsite	Ojo Alamo Kirtland Fruitland Coal Pictured Cliffs Ss Lewis Shale Cliffhouse Ss Menefee Fn Point Lookout Ss Mancos Sh KICK OFF PT Mancos Silt Gallup Top	510 625 905 1247 1404 1981 2582 3658 3826 4309 4363 4635 4854	5029		8 1/2	7" 26ppf J55 LTC TOC @ surface 30% OH excess: 523 sks Lead 155 sks Tail 368sks	Fresh Wtr 8.5-8.8	Vertical <1° KOP 4309 10 deg/100'
Surveys every 500' Gyro at CP MWD Gamma Directional	No OH Logs	horz target Base Gallup Pilot Hole TD	4882 4970 5170	5217		6 1/8	200' overlap at liner top 4165' Lateral 4 1/2" 11.6ppf SB80 LTC Running external swellable csg packers for isolation of prod string	8.6-9.0 OBM Switch to OBM 8.6-9.0	.25deg updip 4824'TVD TD = 9380' 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 core point, obtain cores
- 4) Drill to pilot hole TD of 5170' and run OH logs.
- 5) Spot cement kick plug
- 6) Kick off at 4309' and start curve at 10deg/100' build rate
- 7) Drill to casing point of 5029' MD
- 8) R&C 7" casing, circ cmt to surface, switch to OBM
- 9) Land at 90deg, drill 4165' lateral to 9380', 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

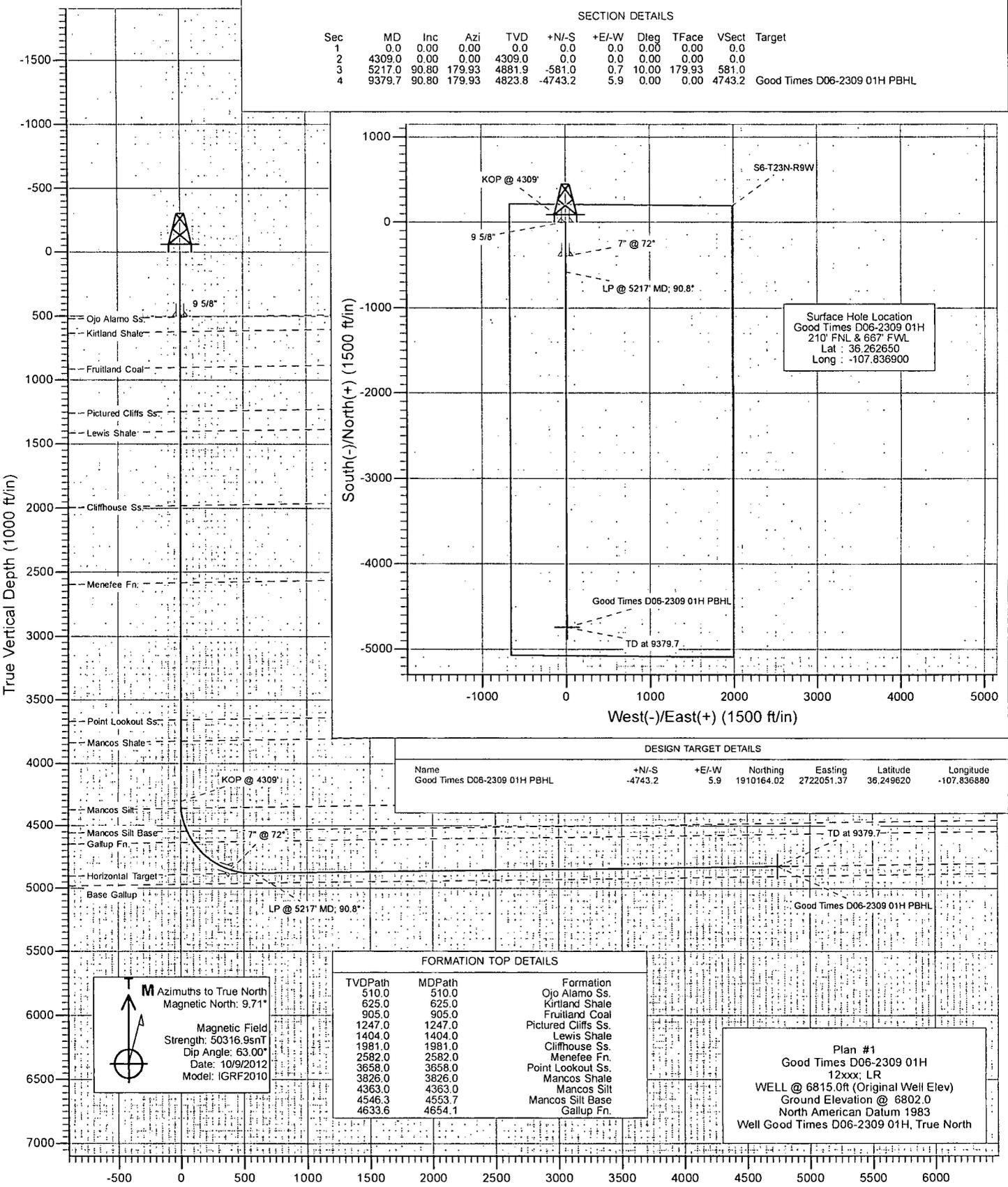
Drilling Mud Weight (ppg)	_____	9.625
Tension Safety Factor	_____	1.80
Maximum Tension Length (ft)	_____	9,630
Internal Yield Safety Factor	_____	1.10
Maximum Depth for Internal Yield (ft)	_____	14,150
Collapse Safety Factor	_____	1.125
Maximum Collapse Depth (ft)	_____	11,290

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

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4309.0	0.00	0.00	4309.0	0.0	0.0	0.00	0.00	0.0	
3	5217.0	90.80	179.93	4881.9	-581.0	0.7	10.00	179.93	581.0	
4	9379.7	90.80	179.93	4823.8	-4743.2	5.9	0.00	0.00	4743.2	Good Times D06-2309 01H PBHL



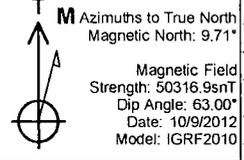
Surface Hole Location
Good Times D06-2309 01H
210' FNL & 667' FWL
Lat : 36.262650
Long : -107.836900

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Good Times D06-2309 01H PBHL	-4743.2	5.9	1910164.02	2722051.37	36.249620	-107.836880

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
510.0	510.0	Ojo Alamo Ss.
625.0	625.0	Kirtland Shale
905.0	905.0	Fruiland Coal
1247.0	1247.0	Pictured Cliffs Ss.
1404.0	1404.0	Lewis Shale
1981.0	1981.0	Cliffhouse Ss.
2582.0	2582.0	Menefee Fn.
3658.0	3658.0	Point Lookout Ss.
3826.0	3826.0	Mancos Shale
4363.0	4363.0	Mancos Silt
4546.3	4553.7	Mancos Silt Base
4633.6	4654.1	Gallup Fn.



Plan #1
Good Times D06-2309 01H
12xxx: LR
WELL @ 6815.0ft (Original Well Elev)
Ground Elevation @ 6802.0
North American Dalum 1983
Well Good Times D06-2309 01H, True North

Vertical Section at 179.93° (1000 ft/in)

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: San Juan Co, NM
 Site: S6-T23N-R9W (Good Times)
 Well: Good Times D06-2309 01H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Good Times D06-2309 01H
 TVD Reference: WELL @ 6815.0ft (Original Well Elev)
 MD Reference: WELL @ 6815.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Project	San Juan Co, 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	S6-T23N-R9W (Good Times)				
Site Position:		Northing:	1,914,907.26 ft	Latitude:	36.262650
From:	Lat/Long	Easting:	2,722,045.65 ft	Longitude:	-107.836900
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.00 °

Well	Good Times D06-2309 01H					
Well Position	+N/-S	0.0 ft	Northing:	1,914,907.26 ft	Latitude:	36.262650
	+E/-W	0.0 ft	Easting:	2,722,045.65 ft	Longitude:	-107.836900
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,802.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/9/2012	9.71	63.00	50,317

Design	Plan #1				
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	179.93	

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	
4,309.0	0.00	0.00	4,309.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,217.0	90.80	179.93	4,881.9	-581.0	0.7	10.00	10.00	0.00	179.93	
9,379.7	90.80	179.93	4,823.8	-4,743.2	5.9	0.00	0.00	0.00	0.00	Good Times D06-230

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: San Juan Co, NM
 Site: S6-T23N-R9W (Good Times)
 Well: Good Times D06-2309 01H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Good Times D06-2309 01H
 TVD Reference: WELL @ 6815.0ft (Original Well Elev)
 MD Reference: WELL @ 6815.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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"
510.0	0.00	0.00	510.0	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	
625.0	0.00	0.00	625.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
905.0	0.00	0.00	905.0	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	
1,247.0	0.00	0.00	1,247.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,404.0	0.00	0.00	1,404.0	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	
1,981.0	0.00	0.00	1,981.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
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	
2,400.0	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	
2,582.0	0.00	0.00	2,582.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
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	
3,200.0	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	
3,658.0	0.00	0.00	3,658.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
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	
3,826.0	0.00	0.00	3,826.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale
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	
4,100.0	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	

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: San Juan Co, NM
 Site: S6-T23N-R9W (Good Times)
 Well: Good Times D06-2309 01H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Good Times D06-2309 01H
 TVD Reference: WELL @ 6815.0ft (Original Well Elev)
 MD Reference: WELL @ 6815.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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	
4,309.0	0.00	0.00	4,309.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4309'
4,363.0	5.41	179.93	4,363.0	-2.5	0.0	2.5	10.00	10.00	Mancos Silt
4,400.0	9.10	179.93	4,399.6	-7.2	0.0	7.2	10.00	10.00	
4,500.0	19.10	179.93	4,496.5	-31.5	0.0	31.5	10.00	10.00	
4,553.7	24.47	179.93	4,546.3	-51.5	0.1	51.5	10.00	10.00	Mancos Silt Base
4,600.0	29.10	179.93	4,587.6	-72.3	0.1	72.3	10.00	10.00	
4,654.1	34.51	179.93	4,633.6	-100.8	0.1	100.8	10.00	10.00	Gallup Fn.
4,700.0	39.10	179.93	4,670.3	-128.3	0.2	128.3	10.00	10.00	
4,800.0	49.10	179.93	4,742.1	-197.8	0.2	197.8	10.00	10.00	
4,900.0	59.10	179.93	4,800.6	-278.7	0.3	278.7	10.00	10.00	
5,000.0	69.10	179.93	4,844.2	-368.6	0.5	368.6	10.00	10.00	
5,029.0	72.00	179.93	4,853.9	-395.9	0.5	395.9	10.00	10.00	7" @ 72°
5,100.0	79.10	179.93	4,871.6	-464.6	0.6	464.6	10.00	10.00	
5,200.0	89.10	179.93	4,881.9	-564.0	0.7	564.0	10.00	10.00	
5,217.0	90.80	179.93	4,881.9	-581.0	0.7	581.0	10.00	10.00	LP @ 5217' MD; 90.8°
5,300.0	90.80	179.93	4,880.7	-664.0	0.8	664.0	0.00	0.00	
5,400.0	90.80	179.93	4,879.3	-764.0	0.9	764.0	0.00	0.00	
5,500.0	90.80	179.93	4,877.9	-864.0	1.1	864.0	0.00	0.00	
5,600.0	90.80	179.93	4,876.5	-963.9	1.2	963.9	0.00	0.00	
5,700.0	90.80	179.93	4,875.1	-1,063.9	1.3	1,063.9	0.00	0.00	
5,800.0	90.80	179.93	4,873.7	-1,163.9	1.4	1,163.9	0.00	0.00	
5,900.0	90.80	179.93	4,872.3	-1,263.9	1.6	1,263.9	0.00	0.00	
6,000.0	90.80	179.93	4,870.9	-1,363.9	1.7	1,363.9	0.00	0.00	
6,100.0	90.80	179.93	4,869.6	-1,463.9	1.8	1,463.9	0.00	0.00	
6,200.0	90.80	179.93	4,868.2	-1,563.9	1.9	1,563.9	0.00	0.00	
6,300.0	90.80	179.93	4,866.8	-1,663.9	2.1	1,663.9	0.00	0.00	
6,400.0	90.80	179.93	4,865.4	-1,763.9	2.2	1,763.9	0.00	0.00	
6,500.0	90.80	179.93	4,864.0	-1,863.9	2.3	1,863.9	0.00	0.00	
6,600.0	90.80	179.93	4,862.6	-1,963.8	2.4	1,963.8	0.00	0.00	
6,700.0	90.80	179.93	4,861.2	-2,063.8	2.6	2,063.8	0.00	0.00	
6,800.0	90.80	179.93	4,859.8	-2,163.8	2.7	2,163.8	0.00	0.00	
6,900.0	90.80	179.93	4,858.4	-2,263.8	2.8	2,263.8	0.00	0.00	
7,000.0	90.80	179.93	4,857.0	-2,363.8	2.9	2,363.8	0.00	0.00	
7,100.0	90.80	179.93	4,855.6	-2,463.8	3.1	2,463.8	0.00	0.00	
7,200.0	90.80	179.93	4,854.2	-2,563.8	3.2	2,563.8	0.00	0.00	
7,300.0	90.80	179.93	4,852.8	-2,663.8	3.3	2,663.8	0.00	0.00	
7,400.0	90.80	179.93	4,851.4	-2,763.8	3.4	2,763.8	0.00	0.00	
7,500.0	90.80	179.93	4,850.0	-2,863.8	3.6	2,863.8	0.00	0.00	
7,600.0	90.80	179.93	4,848.6	-2,963.7	3.7	2,963.7	0.00	0.00	
7,700.0	90.80	179.93	4,847.2	-3,063.7	3.8	3,063.7	0.00	0.00	
7,800.0	90.80	179.93	4,845.8	-3,163.7	3.9	3,163.7	0.00	0.00	
7,900.0	90.80	179.93	4,844.4	-3,263.7	4.1	3,263.7	0.00	0.00	
8,000.0	90.80	179.93	4,843.0	-3,363.7	4.2	3,363.7	0.00	0.00	
8,100.0	90.80	179.93	4,841.6	-3,463.7	4.3	3,463.7	0.00	0.00	
8,200.0	90.80	179.93	4,840.2	-3,563.7	4.4	3,563.7	0.00	0.00	
8,300.0	90.80	179.93	4,838.8	-3,663.7	4.6	3,663.7	0.00	0.00	
8,400.0	90.80	179.93	4,837.4	-3,763.7	4.7	3,763.7	0.00	0.00	
8,500.0	90.80	179.93	4,836.0	-3,863.7	4.8	3,863.7	0.00	0.00	
8,600.0	90.80	179.93	4,834.6	-3,963.6	4.9	3,963.6	0.00	0.00	
8,700.0	90.80	179.93	4,833.2	-4,063.6	5.1	4,063.6	0.00	0.00	
8,800.0	90.80	179.93	4,831.9	-4,163.6	5.2	4,163.6	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: San Juan Co, NM
 Site: S6-T23N-R9W (Good Times)
 Well: Good Times D06-2309 01H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Good Times D06-2309 01H
 TVD Reference: WELL @ 6815.0ft (Original Well Elev)
 MD Reference: WELL @ 6815.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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
8,900.0	90.80	179.93	4,830.5	-4,263.6	5.3	4,263.6	0.00	0.00	
9,000.0	90.80	179.93	4,829.1	-4,363.6	5.4	4,363.6	0.00	0.00	
9,100.0	90.80	179.93	4,827.7	-4,463.6	5.5	4,463.6	0.00	0.00	
9,200.0	90.80	179.93	4,826.3	-4,563.6	5.7	4,563.6	0.00	0.00	
9,300.0	90.80	179.93	4,824.9	-4,663.6	5.8	4,663.6	0.00	0.00	
9,379.7	90.80	179.93	4,823.8	-4,743.2	5.9	4,743.2	0.00	0.00	TD at 9379.7 - Good Times D06-2309 01H PBH

Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Good Times D06-2309 0	- plan hits target center	0.00	0.00	4,823.8	-4,743.2	5.9	1,910,164.02	2,722,051.37	36.249620	-107.836880
	- Point									

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
500.0	500.0	9 5/8"	9.625	12.250
5,029.0	4,853.9	7" @ 72°	7.000	8.750

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
510.0	510.0	Ojo Alamo Ss.		-0.80	179.93
625.0	625.0	Kirtland Shale		-0.80	179.93
905.0	905.0	Fruitland Coal		-0.80	179.93
1,247.0	1,247.0	Pictured Cliffs Ss.		-0.80	179.93
1,404.0	1,404.0	Lewis Shale		-0.80	179.93
1,981.0	1,981.0	Cliffhouse Ss.		-0.80	179.93
2,582.0	2,582.0	Menefee Fn.		-0.80	179.93
3,658.0	3,658.0	Point Lookout Ss.		-0.80	179.93
3,826.0	3,826.0	Mancos Shale		-0.80	179.93
4,363.0	4,363.0	Mancos Silt		-0.80	179.93
4,553.7	4,547.0	Mancos Silt Base		-0.80	179.93
4,654.1	4,635.0	Gallup Fn.		-0.80	179.93

Planning Report

Database: USA EDM 5000 Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: San Juan Co, NM
 Site: S6-T23N-R9W (Good Times)
 Well: Good Times D06-2309 01H
 Wellbore: Hz
 Design: Plan #1

Local Co-ordinate Reference: Well Good Times D06-2309 01H
 TVD Reference: WELL @ 6815.0ft (Original Well Elev)
 MD Reference: WELL @ 6815.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
4,309.0	4,309.0	0.0	0.0	KOP @ 4309'
5,217.0	4,881.9	-581.0	0.7	LP @ 5217' MD; 90.8°
9,379.7	4,823.8	-4,743.2	5.9	TD at 9379.7

WELLHEAD BLOWOUT CONTROL SYSTEM



Well name and number:

Good Times D06-2309 01H

