

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE -- Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

MAR 25 2013

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

Farmington Field Office
Bureau of Land Management

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

3b. Phone No. (include area code)
720-876-5353

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 287' FSL and 862' FEL Sec 36, T24N, R10W
BHL: 330' FSL and 1730' FEL Sec 1, T23N, R10W

5. Lease Serial No.
NMNM 42059

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

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

8. Well Name and No.
Good Times P36A-2410 01H

9. API Well No.
PENDING 30-045-35449

10. Field and Pool or Exploratory Area
South Bisti-Gallup

11. Country or Parish, State
San Juan, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Encana Oil & Gas (USA) Inc. (Encana) would like to revise the hole sizes, casing sizes, and cement plans for the Good Times P36A-2410 01H well. Encana would like to change the intermediate hole size from 8 1/2" to 8 3/4" and change the cementing program to accomidate the hole size changes. 10pt plan and wellbore diagram is also updated to reflect the most recent directional plan. Please see attached 10 point drilling plan, wellbore diagram, and directional plan. Drilling is estimated to commence on April 22, 2014.

RCVD APR 10 '13
OIL CONS. DIV.
DIST. 3

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

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)
Amie Weis

Title Drilling Engineer

Signature

Date 3/22/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salyers

Title Petroleum Engineer

Date 4/3/2013

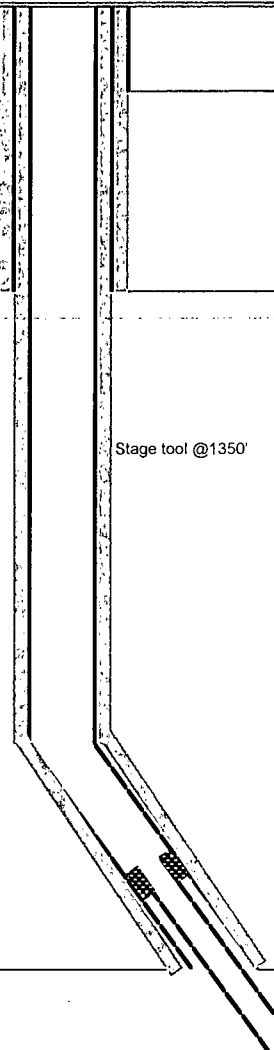
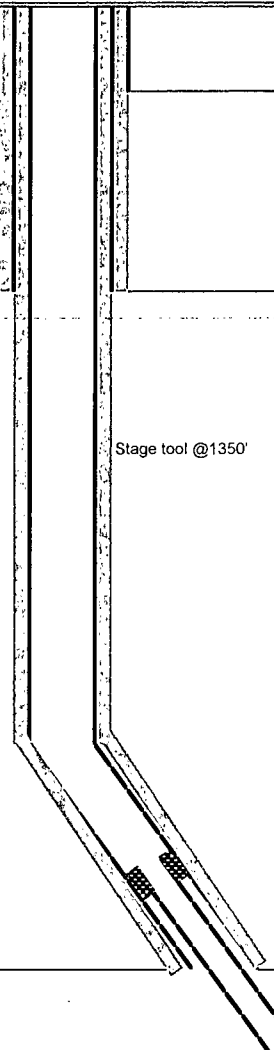
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office FFO

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.

(Instructions on page 2)

NMOCDFV

LOC: Sec 36-T24N-R10W County: San Juan WELL: Good Times P36A-2410 01H			Encana Natural Gas WELL SUMMARY				encana™ natural gas		ENG: J. Fox/ A. 3/22/13 RIG: GLE: 6866 RKBE: 6879	
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					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	559 697	5700		8 3/4	7" 26ppf J55 LTC TOC @ surface 30% OH excess: 587 sks Total Stage 1 Lead: 279 sks Stage 1 Tail: 191 sks Stage 2 Lead: 117 sks	Fresh Wtr 8.5-8.8	Vertical <1°	
		Fruitland Coal	1009							
		Pictured Cliffs Ss Lewis Shale	1302 1461							
		Cliffhouse Ss Menefee Fn	2036 2599							
	Mud logger onsite	Point Lookout Ss Mancos Sh	3717 3899							
		KICK OFF PT	4250							
	Mancos Silt	4429								
	Gallup Top	4699								
			4946			6 1/8	200' overlap at liner top			
Surveys every 500' Gyro at CP MWD Gamma Directional	No OH Logs	horz target	4957	5798			4620' Lateral	8.6-9.0 OBM	.25deg updip 4875'TVD TD = 10418' MD	
		Base Gallup	5034				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	Switch to OBM 8.6-9.0		

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 KOP of 4250' , 8 3/4" hole size,
- 5) PU directional tools and start curve at 10deg/100' build rate
- 6) Drill to casing point of 5700' MD
- 7) R&C 7" casing, circ cmt to surface, switch to OBM
- 8) Land at 90deg, drill 4620' lateral to 10418', run 4 1/2" liner with external swellable csg packers

Good Times P36A-2410 01H
SHL: SESE Section 36, T24N, R10W
287 FSL and 862 FEL
BHL: SWSW Section 1, T23N, R10W
330 FSL and 1730 FEL
San Juan County, New Mexico
Lease Number: NM 42059

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 Ss.	559'
Kirtland	697'
Fruitland Coal	1009'
Pictured Cliffs	1302'
Lewis	1461'
Cliffhouse	2036'
Menefee	2599'
Point Lookout	3717'
Mancos Shale	3899'
Mancos Silt	4429'
Gallup	4699'

The referenced surface elevation is 6866', KB 6879'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth (TVD)</u>
Gas	Fruitland Coal	1009'
Gas	Pictured Cliffs	1302'
Gas	Cliffhouse	2036'
Gas	Point Lookout	3717'
Oil/Gas	Mancos	3899'

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 P36A-2410 01H**SHL: SESE Section 36, T24N, R10W
287 FSL and 862 FEL****BHL: SWSW Section 1, T23N, R10W
330 FSL and 1730 FEL****San Juan County, New Mexico****Lease Number: NM 42059**

- 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'-5700'MD	8 3/4"	7"	26#	J55, LTC New
Production Liner	5500'-10418'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 P36A-2410 01H

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287 FSL and 862 FEL

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330 FSL and 1730 FEL

San Juan County, New Mexico

Lease Number: NM 42059

Casing	Depth	Cement Volume (sacks)	Cement Type&Yield	Designed TOC	Centralizers
Conductor	60'	100sk	Type I Neat 14.8 ppg	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 per joint on bottom 3 joints
Intermediate	5700'MD	30% open hole excess Stage 1 Lead: 279sk Stage 1 Tail: 191sk Stage 2 Lead: 117sk	Lead (Stages 1 and 2): PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuf/sk Tail (Stage 1): 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*	5500'-10418'	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 a minimum of 8 hours or 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 horizontal well will have a kick off point of 4250'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	4875'/10418'	Gallup

Good Times P36A-2410 01H**SHL: SESE Section 36, T24N, R10W
287 FSL and 862 FEL****BHL: SWSW Section 1, T23N, R10W
330 FSL and 1730 FEL****San Juan County, New Mexico****Lease Number: NM 42059****6. DRILLING FLUIDS PROGRAM**

a) Surface through Intermediate Casing Point:

Hole Size (in)	Depth (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
30"	0-60' TVD	Fresh Water	8.3-9.2	38-100	4-28
12 1/4"	0-500' TVD	Fresh Water	8.4-8.6	60-70	NC
8 1/2"	500'TVD- 4946'TVD/5700'MD	Fresh Water LSND	8.5-8.8	40-50	8-10

b) Intermediate Casing Point to TD:

Hole Size (in)	MD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
6 1/8"	5700'-10418'	Synthetic Oil Based Mud	8.6-9.0	15-25	<15

- c) There will be sufficient mud on location to control a blowout should one occur. Mud flow and volume will be monitored both visually and with electronic pit volume totalizers. Mud tests shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.
- d) A closed-loop system will be used to recover drilling fluid and dry cuttings in both phases of the well and on all hole intervals, 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 – None anticipated.
- c) Mud Logging – Mud loggers will be on location from kick off point to TD.
- d) Logging – See Below

Cased Hole:

CBL/CCL/GR/VDL will be run as needed for perforating control

8. ABNORMAL PRESSURES & HYDROGEN SULFIDE

The anticipated bottom hole pressure is +/- 2320 psi based on a 9.0 ppg at 4957' TVD of the landing point of the horizontal lateral. 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.

Good Times P36A-2410 01H

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330 FSL and 1730 FEL**

San Juan County, New Mexico

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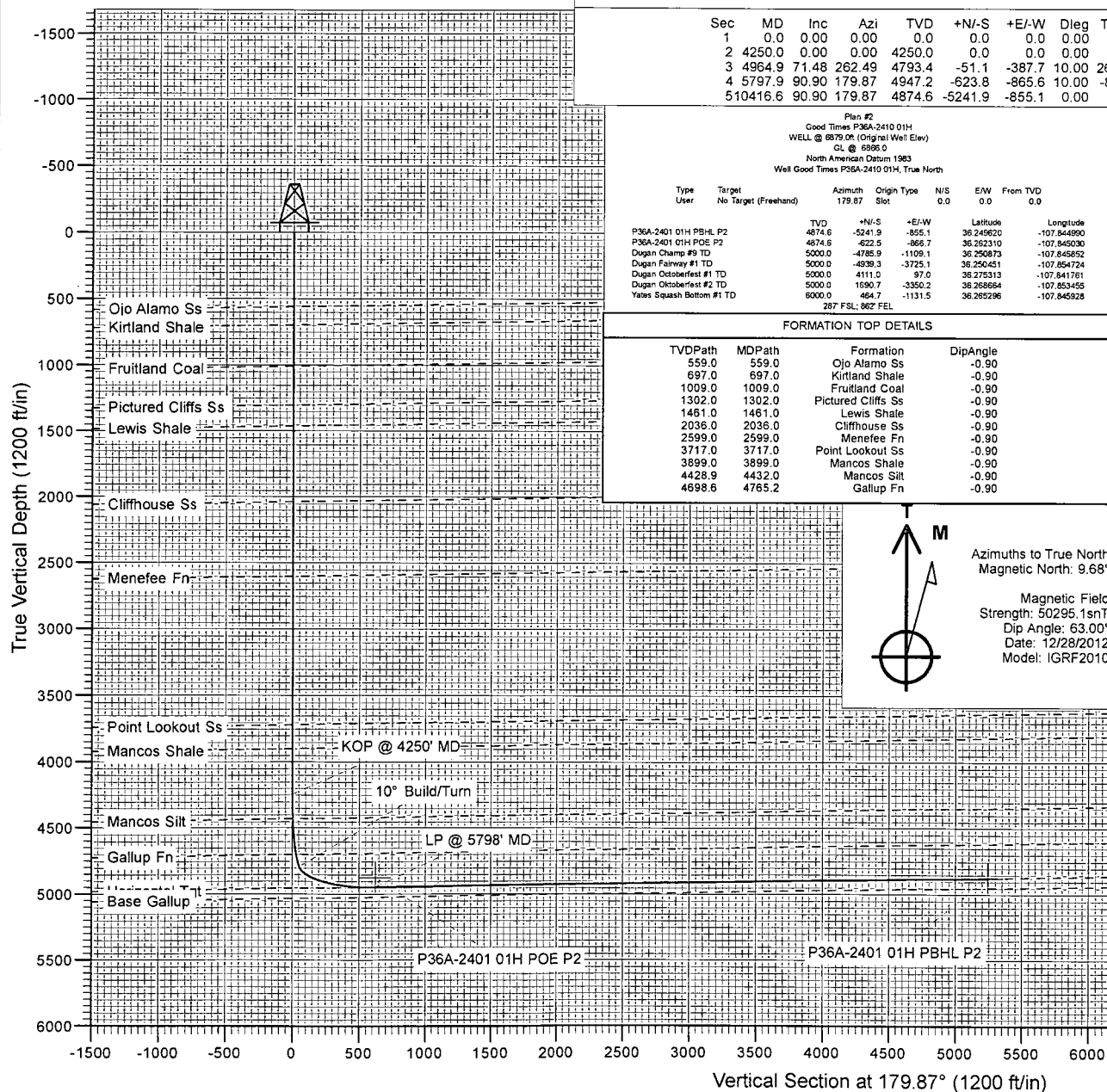
9. ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence on April 22, 2014. 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.



Project: San Juan County, NM
 Site: S36-T24N-R10W (Good Times)
 Well: Good Times P36A-2410 01H
 Wellbore: HZ
 Design: Plan #2



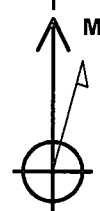
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	4250.0	0.0	0.0	0.00	0.00	0.0		
2	4250.0	0.00	0.00	4250.0	0.0	0.0	0.00	0.00	0.0		
3	4964.9	71.48	262.49	4793.4	-51.1	-387.7	10.00	262.49	50.3		
4	5797.9	90.90	179.87	4947.2	-623.8	-865.6	10.00	-86.78	621.8		
5	10416.6	90.90	179.87	4874.6	-5241.9	-855.1	0.00	0.00	5240.0	P36A-2401 01H PBHL P2	PBHL @ 10417' MD

Plan #2
 Good Times P36A-2410 01H
 WELL @ 6879.0ft (Original Well Elev)
 CL @ 6886.0
 North American Datum 1983
 Well Good Times P36A-2410 01H, True North

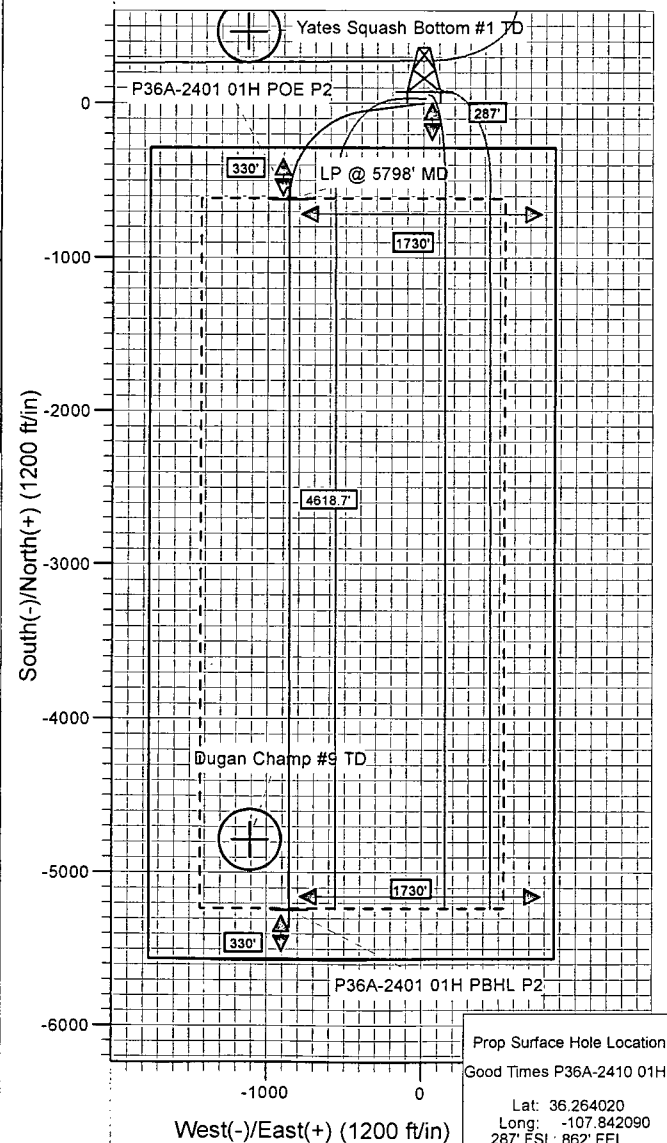
Type	Target	Target No	Freehand	Azimuth	Origin Type	N/S	E/W	From TVD	Longitude
P36A-2401 01H PBHL P2				179.87	Slot	0.0	0.0	0.0	-107.844990
P36A-2401 01H POE P2				179.87	Slot	0.0	0.0	0.0	-107.845030
Dugan Champ #9 TD				179.87	Slot	0.0	0.0	0.0	-107.845652
Dugan Fairway #1 TD				179.87	Slot	0.0	0.0	0.0	-107.854724
Dugan Octoberfest #1 TD				179.87	Slot	0.0	0.0	0.0	-107.841761
Dugan Octoberfest #2 TD				179.87	Slot	0.0	0.0	0.0	-107.853455
Yates Squash Bottom #1 TD				179.87	Slot	0.0	0.0	0.0	-107.845928

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION	DIPANGLE
559.0	559.0	Ojo Alamo Ss	-0.90
697.0	697.0	Kirtland Shale	-0.90
1009.0	1009.0	Fruitland Coal	-0.90
1302.0	1302.0	Pictured Cliffs Ss	-0.90
1461.0	1461.0	Lewis Shale	-0.90
2036.0	2036.0	Cliffhouse Ss	-0.90
2599.0	2599.0	Menefee Fn	-0.90
3717.0	3717.0	Point Lookout Ss	-0.90
3899.0	3899.0	Mancos Shale	-0.90
4428.9	4432.0	Mancos Silt	-0.90
4698.6	4765.2	Gallup Fn	-0.90



Azimuths to True North
 Magnetic North: 9.68°
 Magnetic Field
 Strength: 50295.1snT
 Dip Angle: 63.00°
 Date: 12/28/2012
 Model: IGRF2010



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times P36A-2410 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6879.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6879.0ft (Original Well Elev)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36A-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		S36-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 P36A-2410 01H					
Well Position	+N/-S	0.0 ft	Northing:	1,915,406.28 ft	Latitude:	36.264021
	+E/-W	0.0 ft	Easting:	2,720,515.52 ft	Longitude:	-107.842090
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,866.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	12/28/2012	9.68	63.00	50,295

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	179.87

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	
4,250.0	0.00	0.00	4,250.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,965.3	71.51	262.52	4,793.5	-50.9	-388.1	10.00	10.00	0.00	262.52	
5,798.8	90.90	179.87	4,947.2	-623.7	-866.4	10.00	2.33	-9.92	-86.80	
10,417.5	90.90	179.87	4,874.6	-5,241.8	-855.9	0.00	0.00	0.00	0.00	P36A-2401 01H PBHI

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times P36A-2410 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6879.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6879.0ft (Original Well Elev)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36A-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	
559.0	0.00	0.00	559.0	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	
697.0	0.00	0.00	697.0	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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,009.0	0.00	0.00	1,009.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	
1,302.0	0.00	0.00	1,302.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,461.0	0.00	0.00	1,461.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,036.0	0.00	0.00	2,036.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,599.0	0.00	0.00	2,599.0	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	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,717.0	0.00	0.00	3,717.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,899.0	0.00	0.00	3,899.0	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	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times P36A-2410 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6879.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6879.0ft (Original Well Elev)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36A-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
4,250.0	0.00	0.00	4,250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 4250' MD
4,300.0	5.00	262.52	4,299.9	-0.3	-2.2	0.3	10.00	10.00	
4,400.0	15.00	262.52	4,398.3	-2.5	-19.4	-2.5	10.00	10.00	
4,432.0	18.19	262.52	4,429.0	-3.7	-28.4	3.7	10.00	10.00	Mancos Silt
4,500.0	24.99	262.52	4,492.1	-7.0	-53.2	6.9	10.00	10.00	
4,600.0	34.99	262.52	4,578.6	-13.5	-102.7	13.2	10.00	10.00	
4,700.0	44.99	262.52	4,655.2	-21.8	-166.4	21.5	10.00	10.00	
4,765.2	51.51	262.52	4,698.6	-28.2	-214.6	27.7	10.00	10.00	Gallup Fn
4,800.0	54.99	262.52	4,719.4	-31.8	-242.2	31.2	10.00	10.00	
4,900.0	64.98	262.52	4,769.3	-43.0	-327.9	42.3	10.00	10.00	
4,965.3	71.51	262.52	4,793.5	-50.9	-388.1	50.1	10.00	10.00	10° Build/Turn
5,000.0	71.74	258.88	4,804.5	-56.3	-420.5	55.3	10.00	0.66	
5,100.0	72.78	248.44	4,835.0	-83.0	-511.8	81.9	10.00	1.04	
5,200.0	74.35	238.14	4,863.4	-126.1	-597.3	124.8	10.00	1.57	
5,300.0	76.39	228.02	4,888.7	-184.2	-674.5	182.6	10.00	2.04	
5,400.0	78.83	218.10	4,910.2	-255.5	-741.1	253.8	10.00	2.44	
5,500.0	81.59	208.34	4,927.2	-337.8	-795.0	336.0	10.00	2.76	
5,600.0	84.59	198.73	4,939.3	-428.7	-834.5	426.8	10.00	3.00	
5,700.0	87.73	189.22	4,946.0	-525.4	-858.6	523.5	10.00	3.15	
5,798.8	90.90	179.87	4,947.2	-623.7	-866.4	621.8	10.00	3.21	LP @ 5798' MD
5,800.0	90.90	179.87	4,947.2	-625.0	-866.4	623.0	0.00	0.00	
5,900.0	90.90	179.87	4,945.6	-725.0	-866.2	723.0	0.00	0.00	
6,000.0	90.90	179.87	4,944.0	-824.9	-865.9	823.0	0.00	0.00	
6,100.0	90.90	179.87	4,942.5	-924.9	-865.7	923.0	0.00	0.00	
6,200.0	90.90	179.87	4,940.9	-1,024.9	-865.5	1,022.9	0.00	0.00	
6,300.0	90.90	179.87	4,939.3	-1,124.9	-865.3	1,122.9	0.00	0.00	
6,400.0	90.90	179.87	4,937.8	-1,224.9	-865.0	1,222.9	0.00	0.00	
6,500.0	90.90	179.87	4,936.2	-1,324.9	-864.8	1,322.9	0.00	0.00	
6,600.0	90.90	179.87	4,934.6	-1,424.9	-864.6	1,422.9	0.00	0.00	
6,700.0	90.90	179.87	4,933.0	-1,524.9	-864.4	1,522.9	0.00	0.00	
6,800.0	90.90	179.87	4,931.5	-1,624.8	-864.1	1,622.9	0.00	0.00	
6,900.0	90.90	179.87	4,929.9	-1,724.8	-863.9	1,722.9	0.00	0.00	
7,000.0	90.90	179.87	4,928.3	-1,824.8	-863.7	1,822.8	0.00	0.00	
7,100.0	90.90	179.87	4,926.8	-1,924.8	-863.4	1,922.8	0.00	0.00	
7,200.0	90.90	179.87	4,925.2	-2,024.8	-863.2	2,022.8	0.00	0.00	
7,300.0	90.90	179.87	4,923.6	-2,124.8	-863.0	2,122.8	0.00	0.00	
7,400.0	90.90	179.87	4,922.0	-2,224.8	-862.8	2,222.8	0.00	0.00	
7,500.0	90.90	179.87	4,920.5	-2,324.8	-862.5	2,322.8	0.00	0.00	
7,600.0	90.90	179.87	4,918.9	-2,424.7	-862.3	2,422.8	0.00	0.00	
7,700.0	90.90	179.87	4,917.3	-2,524.7	-862.1	2,522.8	0.00	0.00	
7,800.0	90.90	179.87	4,915.8	-2,624.7	-861.9	2,622.8	0.00	0.00	
7,900.0	90.90	179.87	4,914.2	-2,724.7	-861.6	2,722.7	0.00	0.00	
8,000.0	90.90	179.87	4,912.6	-2,824.7	-861.4	2,822.7	0.00	0.00	
8,100.0	90.90	179.87	4,911.1	-2,924.7	-861.2	2,922.7	0.00	0.00	
8,200.0	90.90	179.87	4,909.5	-3,024.7	-861.0	3,022.7	0.00	0.00	
8,300.0	90.90	179.87	4,907.9	-3,124.6	-860.7	3,122.7	0.00	0.00	
8,400.0	90.90	179.87	4,906.3	-3,224.6	-860.5	3,222.7	0.00	0.00	
8,500.0	90.90	179.87	4,904.8	-3,324.6	-860.3	3,322.7	0.00	0.00	
8,600.0	90.90	179.87	4,903.2	-3,424.6	-860.0	3,422.7	0.00	0.00	
8,700.0	90.90	179.87	4,901.6	-3,524.6	-859.8	3,522.6	0.00	0.00	
8,800.0	90.90	179.87	4,900.1	-3,624.6	-859.6	3,622.6	0.00	0.00	
8,900.0	90.90	179.87	4,898.5	-3,724.6	-859.4	3,722.6	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times P36A-2410 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6879.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6879.0ft (Original Well Elev)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36A-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	90.90	179.87	4,896.9	-3,824.6	-859.1	3,822.6	0.00	0.00	
9,100.0	90.90	179.87	4,895.3	-3,924.5	-858.9	3,922.6	0.00	0.00	
9,200.0	90.90	179.87	4,893.8	-4,024.5	-858.7	4,022.6	0.00	0.00	
9,300.0	90.90	179.87	4,892.2	-4,124.5	-858.5	4,122.6	0.00	0.00	
9,400.0	90.90	179.87	4,890.6	-4,224.5	-858.2	4,222.6	0.00	0.00	
9,500.0	90.90	179.87	4,889.1	-4,324.5	-858.0	4,322.5	0.00	0.00	
9,600.0	90.90	179.87	4,887.5	-4,424.5	-857.8	4,422.5	0.00	0.00	
9,700.0	90.90	179.87	4,885.9	-4,524.5	-857.6	4,522.5	0.00	0.00	
9,800.0	90.90	179.87	4,884.3	-4,624.5	-857.3	4,622.5	0.00	0.00	
9,900.0	90.90	179.87	4,882.8	-4,724.4	-857.1	4,722.5	0.00	0.00	
10,000.0	90.90	179.87	4,881.2	-4,824.4	-856.9	4,822.5	0.00	0.00	
10,100.0	90.90	179.87	4,879.6	-4,924.4	-856.6	4,922.5	0.00	0.00	
10,200.0	90.90	179.87	4,878.1	-5,024.4	-856.4	5,022.5	0.00	0.00	
10,300.0	90.90	179.87	4,876.5	-5,124.4	-856.2	5,122.4	0.00	0.00	
10,400.0	90.90	179.87	4,874.9	-5,224.4	-856.0	5,222.4	0.00	0.00	
10,417.5	90.90	179.87	4,874.6	-5,241.8	-855.9	5,239.9	0.00	0.00	PBHL @ 10417' MD

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Yates Squash Bottom #1 - hit/miss target - Shape	0.00	0.00	6,000.0	464.5	-1,131.4	1,915,870.84	2,719,384.20	36.265296	-107.845928
- plan misses target center by 1362.0ft at 5380.9ft MD (4906.4 TVD, -240.9 N, -729.3 E)									
- Circle (radius 200.0)									
Dugan Octoberfest #1 TI - plan misses target center by 4150.5ft at 4597.6ft MD (4576.7 TVD, -13.3 N, -101.4 E)	0.00	0.00	5,000.0	4,110.8	97.1	1,919,517.03	2,720,612.98	36.275313	-107.841761
- Circle (radius 200.0)									
Dugan Fairway #1 TD - plan misses target center by 2870.9ft at 10106.7ft MD (4879.5 TVD, -4931.1 N, -856.6 E)	0.00	0.00	5,000.0	-4,939.5	-3,725.0	1,910,467.14	2,716,790.09	36.250451	-107.854724
- Circle (radius 200.0)									
Dugan Champ #9 TD - plan misses target center by 278.4ft at 9959.2ft MD (4881.8 TVD, -4783.7 N, -857.0 E)	0.00	0.00	5,000.0	-4,786.1	-1,109.0	1,910,620.29	2,719,406.08	36.250873	-107.845852
- Circle (radius 200.0)									
P36A-2401 01H PBHL P - plan hits target center - Polygon	0.00	0.00	4,874.6	-5,241.8	-855.9	1,910,164.52	2,719,659.12	36.249621	-107.844993
Point 1			4,874.6	-330.0	-500.0	1,909,834.56	2,719,159.09		
Point 2			4,874.6	-330.0	500.0	1,909,834.47	2,720,159.09		
Dugan Oktoberfest #2 TI - plan misses target center by 3256.0ft at 5400.0ft MD (4910.2 TVD, -255.5 N, -741.1 E)	0.00	0.00	5,000.0	1,690.5	-3,350.0	1,917,097.08	2,717,165.65	36.268664	-107.853455
- Circle (radius 200.0)									

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times P36A-2410 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6879.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6879.0ft (Original Well Elev)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36A-2410 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #2		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
559.0	559.0	Ojo Alamo Ss		-0.90	180.00
697.0	697.0	Kirtland Shale		-0.90	180.00
1,009.0	1,009.0	Fruitland Coal		-0.90	180.00
1,302.0	1,302.0	Pictured Cliffs Ss		-0.90	180.00
1,461.0	1,461.0	Lewis Shale		-0.90	180.00
2,036.0	2,036.0	Cliffhouse Ss		-0.90	180.00
2,599.0	2,599.0	Menefee Fn		-0.90	180.00
3,717.0	3,717.0	Point Lookout Ss		-0.90	180.00
3,899.0	3,899.0	Mancos Shale		-0.90	180.00
4,432.0	4,429.0	Mancos Silt		-0.90	180.00
4,765.2	4,699.0	Gallup Fn		-0.90	180.00

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,250.0	4,250.0	0.0	0.0	KOP @ 4250' MD
4,965.3	4,793.5	-50.9	-388.1	10° Build/Turn
5,798.8	4,947.2	-623.7	-866.4	LP @ 5798' MD
10,417.5	4,874.6	-5,241.8	-855.9	PBHL @ 10417' MD