

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

State of New Mexico

Form C-101
Revised October 25, 2012

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

RCVD JUL 2 '13

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address ENCANA OIL & GAS (USA) INC. 370 17TH STREET, SUITE 1700 DENVER, CO 80202		OGRID Number 282327
Property Code 39985		Property Name Good Times P36-2410
		ADP Number 30-045-35482
		02H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
SHL: P	36	24N	10W		1311	SOUTH	255	EAST	SAN JUAN

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
BHL: M	36	24N	10W		860	SOUTH	330	WEST	SAN JUAN

9. Pool Information

Basin Mancos/South Bisti Gallup (97232/5860)
--

Additional Well Information

11. Work Type N	12. Well Type O	13. Cable/Rotary R	14. Lease Type S	15. Ground Level Elevation 6874'
16. Multiple N/A	17. Proposed Depth 4973' TVD/9518' MD	18. Formation GALLUP	19. Contractor AZTEC	20. Spud Date December 28, 2013
Depth to Ground water UNKNOWN		Distance from nearest fresh water well GREATER THAN 5280'		Distance to nearest surface water ~6000'

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
CONDUCTOR	30"	20"	94#	60'	100	SURFACE
SURFACE	12 1/4"	9 5/8"	36#	500'	178	SURFACE
INTERMEDIATE	8 3/4"	7"	26#	4942' TVD / 5216' MD	535 (30% EXCESS)	SURFACE
PROD. LINER	6 1/8"	4 1/2"	11.6#	5016' - 9518' MD	N/A	N/A

Casing/Cement Program: Additional Comments

HORIZONTAL LATERAL IN THE GALLUP FORMATION. NO CEMENT IN THE PRODUCTION LINER, WILL RUN EXTERNAL SWELL CASING PACKER SYSTEM. WILL USE OIL-BASED MUD SYSTEM FROM INTERMEDIATE CASING POINT TO TD OF HORIZONTAL LATERAL

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
ANNULAR	3000	1500	TBD
DOUBLE RAM	3000	3000	TBD
ROTATING HEAD	3000	1500	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. NO DRILLING PIT WILL BE USED
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable

Signature:

Printed name: Brenda R. Linster

Title: Regulatory Lead

E-mail Address: brenda.linster@encana.com

Date: 06-28-13

Phone: 720-876-3989

Hold C104

For Directional Survey
and "As Drilled" plat

OIL CONSERVATION DIVISION

Approved By:

Title: SUPERVISOR DISTRICT #3

Approved Date: JUL 09 2013

Expiration Date: JUL 09 2015

Conditions of Approval Attached

HOLD C104 FOR: NSC, NSP, DH

A

JUL 09 2013 ca

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

1 API Number 30-045-35482		2 Pool Code 97232 / 5860		3 Pool Name BASIN MANCOS / SOUTH BISTI GALLUP	
4 Property Code 39985		5 Property Name GOOD TIMES P36-2410			6 Well Number 02H
7 QGRID No. 282327		8 Operator Name ENCANA OIL & GAS (USA) INC.			9 Elevation 6874'

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	36	24N	10W		1311	SOUTH	255	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

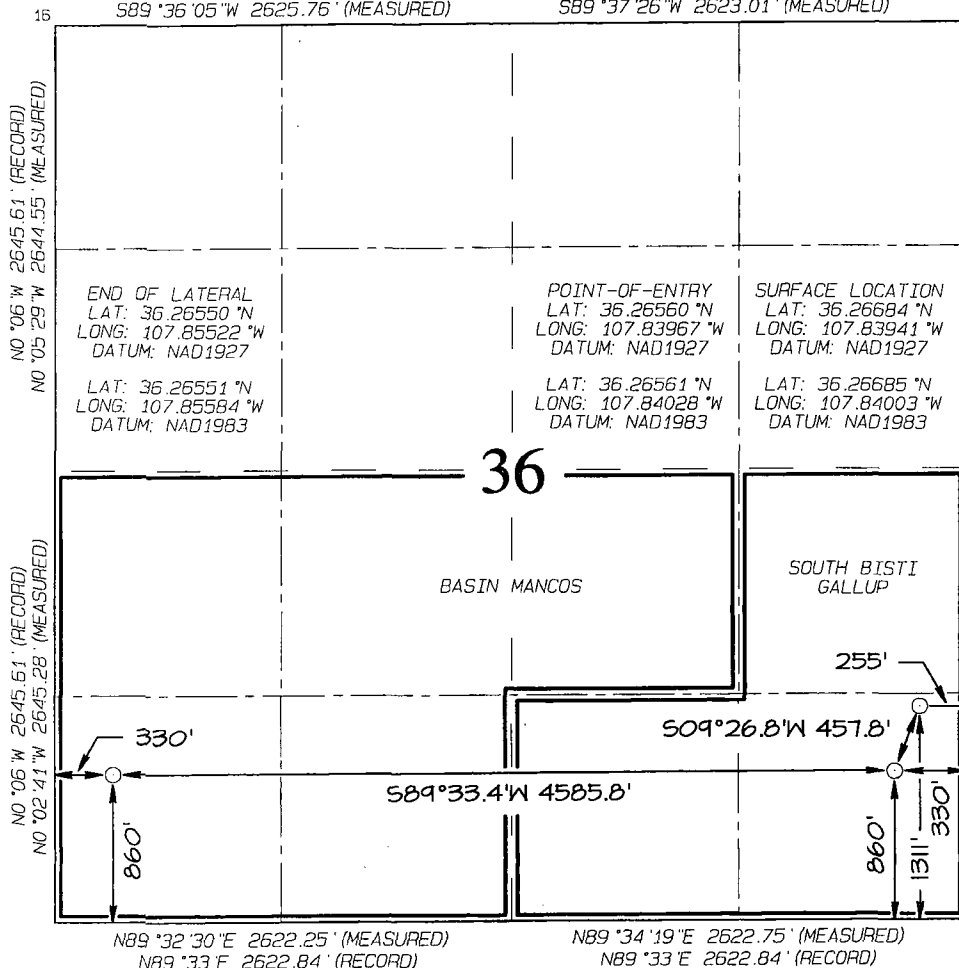
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	24N	10W		860	SOUTH	330	WEST	SAN JUAN

12 Dedicated Acres 320.0 Acres S/2 Section 36		13 Joint or Infill	14 Consolidation Code	15 Order No.
---	--	--------------------	-----------------------	--------------

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

S89°37'W 2624.16' (RECORD)
S89°36'05"W 2625.76' (MEASURED)

S89°37'W 2624.16' (RECORD)
S89°37'26"W 2623.01' (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 this division.

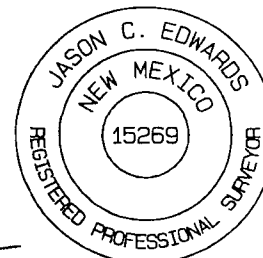
Signature: *Brenda R. Linster* Date: *06-28-13*
Printed Name: Brenda R. Linster
E-mail Address: brenda.linster@encana.com

18 SURVEYOR CERTIFICATION

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

Date Revised: JUNE 14, 2013
Date of Survey: AUGUST 20, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

Directions from the Intersection of US Hwy 550 & US Hwy 64
in Bloomfield, NM to Encana Oil & Gas (USA) Inc. Good Times P36-2410 02H
1311' FSL & 255' FEL, Section 36, T24N, R10W, N.M.P.M., San Juan County, NM

Latitude: 36.26685°N Longitude: 107.84003°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 4.0 miles to fork in road;

Go left (North-easterly) for 0.4 miles to fork in road;

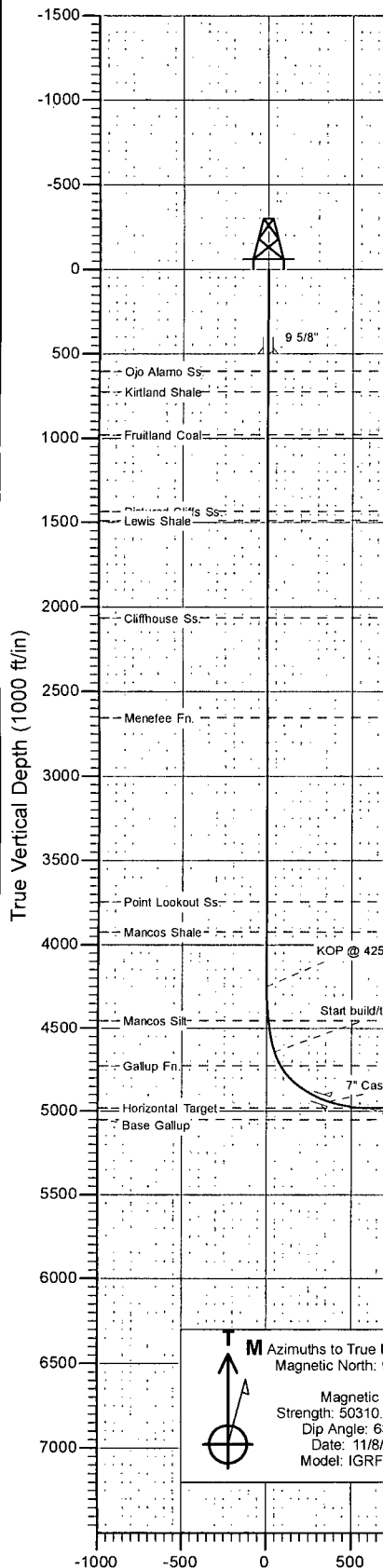
Go right (South-easterly) for 0.6 miles to fork in road;

Go left which is straight (South-easterly) for 0.1 miles to 4-way intersection;

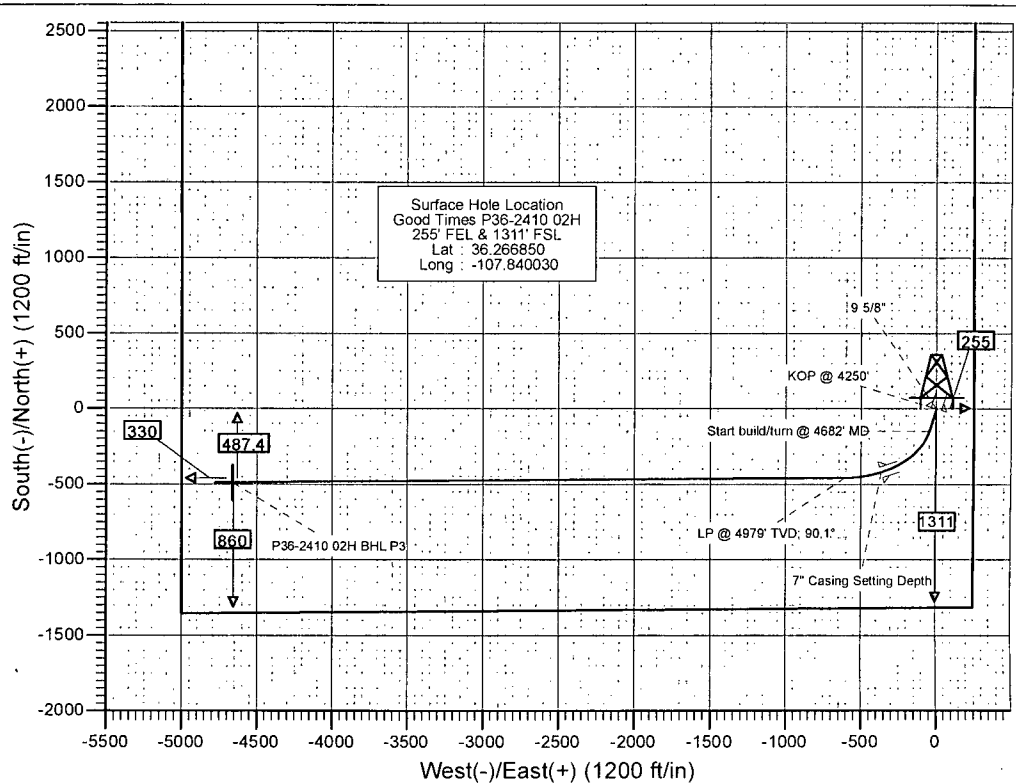
Go straight (South-easterly) @ 4-way intersection for 0.3 miles to new access on left-hand side of existing roadway which continues for 170' to Encana Good Times P36-2410 02H location.

encana

Project: San Juan County, NM
Site: S36-T24N-R10W (Good Times)
Well: Good Times P36-2410 02H
Wellbore: HZ
Design: Plan #3



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	4250.0	0.00	0.00	4250.0	0.0	0.0	0.00	0.00	0.0	
3	4682.3	43.22	197.31	4642.5	-148.4	-46.3	10.00	197.31	47.4	
4	5462.6	90.10	269.55	4979.9	-455.6	-605.0	10.00	76.79	608.6	
5	9518.4	90.10	269.55	4972.9	-487.4	-4660.7	0.00	0.00	4664.4	P36-2410 02H BHL P3



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
P36-2410 02H BHL P3	-487.4	-4660.7	1915949.12	2716462.30	36.265510	-107.855840

CASING DETAILS		
TVD	MD	Name
500.0	500.0	9 5/8"
4941.5	5216.2	7" Casing Setting Depth

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
605.0	605.0	Ojo Alamo Ss.
727.0	727.0	Kirtland Shale
980.0	980.0	Fruitland Coal
1435.0	1435.0	Pictured Cliffs Ss.
1490.0	1490.0	Lewis Shale
2065.0	2065.0	Cliffhouse Ss.
2655.0	2655.0	Menefee Fn.
3744.0	3744.0	Point Lookout Ss.
3924.0	3924.0	Mancos Shale
4453.0	4457.5	Mancos Silt
4724.9	4798.7	Gallup Fn.

M Azimuths to True North
Magnetic North: 9.70°
Magnetic Field
Strength: 50310.3nT
Dip Angle: 63.01°
Date: 11/8/2012
Model: IGRF2010

Plan #3
Good Times P36-2410 02H
KB @ 6890.0ft (Aztec)
Ground Elevation @ 6874.0
North American Datum 1983
Well Good Times P36-2410 02H, True North

Vertical Section at 269.55° (1000 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times P36-2410 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6890.0ft (Aztec)
Project:	San Juan County, NM	MD Reference:	KB @ 6890.0ft (Aztec)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36-2410 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #3		

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 P36-2410 02H					
Well Position	+N/-S	0.0 ft	Northing:	1,916,436.21 ft	Latitude:	36.266850
	+E/-W	0.0 ft	Easting:	2,721,123.01 ft	Longitude:	-107.840030
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,874.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/8/2012	9.70	63.01	50,310

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	269.55

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	
4,682.3	43.22	197.31	4,642.5	-148.4	-46.3	10.00	10.00	0.00	197.31	
5,462.6	90.10	269.55	4,979.9	-455.6	-605.0	10.00	6.01	9.26	76.79	
9,518.4	90.10	269.55	4,972.9	-487.4	-4,660.7	0.00	0.00	0.00	0.00	P36-2410 02H BHL P

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times P36-2410 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6890.0ft (Aztec)
Project:	San Juan County, NM	MD Reference:	KB @ 6890.0ft (Aztec)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36-2410 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	9 5/8"
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
605.0	0.00	0.00	605.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
727.0	0.00	0.00	727.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
980.0	0.00	0.00	980.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,435.0	0.00	0.00	1,435.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,490.0	0.00	0.00	1,490.0	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	
2,065.0	0.00	0.00	2,065.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,655.0	0.00	0.00	2,655.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,744.0	0.00	0.00	3,744.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
3,924.0	0.00	0.00	3,924.0	0.0	0.0	0.0	0.00	0.00	Mancos Shale
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	Local Co-ordinate Reference:	Well Good Times P36-2410 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6890.0ft (Aztec)
Project:	San Juan County, NM	MD Reference:	KB @ 6890.0ft (Aztec)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36-2410 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #3		

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'
4,300.0	5.00	197.31	4,299.9	-2.1	-0.6	0.7	10.00	10.00	
4,400.0	15.00	197.31	4,398.3	-18.6	-5.8	6.0	10.00	10.00	
4,457.5	20.74	197.31	4,453.0	-35.5	-11.1	11.3	10.00	10.00	Mancos Silt
4,500.0	24.99	197.31	4,492.1	-51.2	-16.0	16.4	10.00	10.00	
4,600.0	34.99	197.31	4,578.6	-98.9	-30.8	31.6	10.00	10.00	
4,682.3	43.22	197.31	4,642.5	-148.4	-46.3	47.4	10.00	10.00	Start build/turn @ 4682' MD
4,700.0	43.65	199.80	4,655.3	-159.9	-50.1	51.4	10.00	2.44	
4,798.7	46.98	212.89	4,724.9	-222.4	-81.3	83.1	10.00	3.38	Gallup Fn.
4,800.0	47.04	213.05	4,725.7	-223.2	-81.9	83.6	10.00	4.11	
4,900.0	51.77	224.66	4,790.9	-282.0	-129.5	131.8	10.00	4.74	
5,000.0	57.50	234.73	4,848.9	-334.4	-191.7	194.4	10.00	5.73	
5,100.0	63.94	243.51	4,897.8	-378.9	-266.6	269.5	10.00	6.43	
5,200.0	70.84	251.35	4,936.3	-414.1	-351.7	355.0	10.00	6.91	
5,216.2	71.99	252.56	4,941.5	-418.9	-366.3	369.6	10.00	7.11	7" Casing Setting Depth
5,300.0	78.05	258.55	4,963.1	-439.0	-444.7	448.1	10.00	7.23	
5,400.0	85.44	265.37	4,977.5	-452.8	-542.5	546.1	10.00	7.38	
5,462.6	90.10	269.55	4,979.9	-455.6	-605.0	608.6	10.00	7.45	LP @ 4979' TVD; 90.1°
5,500.0	90.10	269.55	4,979.9	-455.9	-642.4	646.0	0.00	0.00	
5,600.0	90.10	269.55	4,979.7	-456.6	-742.4	745.9	0.00	0.00	
5,700.0	90.10	269.55	4,979.5	-457.4	-842.4	845.9	0.00	0.00	
5,800.0	90.10	269.55	4,979.3	-458.2	-942.4	945.9	0.00	0.00	
5,900.0	90.10	269.55	4,979.2	-459.0	-1,042.4	1,045.9	0.00	0.00	
6,000.0	90.10	269.55	4,979.0	-459.8	-1,142.4	1,145.9	0.00	0.00	
6,100.0	90.10	269.55	4,978.8	-460.6	-1,242.4	1,245.9	0.00	0.00	
6,200.0	90.10	269.55	4,978.6	-461.4	-1,342.4	1,345.9	0.00	0.00	
6,300.0	90.10	269.55	4,978.5	-462.1	-1,442.4	1,445.9	0.00	0.00	
6,400.0	90.10	269.55	4,978.3	-462.9	-1,542.4	1,545.9	0.00	0.00	
6,500.0	90.10	269.55	4,978.1	-463.7	-1,642.4	1,645.9	0.00	0.00	
6,600.0	90.10	269.55	4,977.9	-464.5	-1,742.4	1,745.9	0.00	0.00	
6,700.0	90.10	269.55	4,977.8	-465.3	-1,842.4	1,845.9	0.00	0.00	
6,800.0	90.10	269.55	4,977.6	-466.1	-1,942.3	1,945.9	0.00	0.00	
6,900.0	90.10	269.55	4,977.4	-466.9	-2,042.3	2,045.9	0.00	0.00	
7,000.0	90.10	269.55	4,977.2	-467.6	-2,142.3	2,145.9	0.00	0.00	
7,100.0	90.10	269.55	4,977.1	-468.4	-2,242.3	2,245.9	0.00	0.00	
7,200.0	90.10	269.55	4,976.9	-469.2	-2,342.3	2,345.9	0.00	0.00	
7,300.0	90.10	269.55	4,976.7	-470.0	-2,442.3	2,445.9	0.00	0.00	
7,400.0	90.10	269.55	4,976.5	-470.8	-2,542.3	2,545.9	0.00	0.00	
7,500.0	90.10	269.55	4,976.4	-471.6	-2,642.3	2,645.9	0.00	0.00	
7,600.0	90.10	269.55	4,976.2	-472.3	-2,742.3	2,745.9	0.00	0.00	
7,700.0	90.10	269.55	4,976.0	-473.1	-2,842.3	2,845.9	0.00	0.00	
7,800.0	90.10	269.55	4,975.9	-473.9	-2,942.3	2,945.9	0.00	0.00	
7,900.0	90.10	269.55	4,975.7	-474.7	-3,042.3	3,045.9	0.00	0.00	
8,000.0	90.10	269.55	4,975.5	-475.5	-3,142.3	3,145.9	0.00	0.00	
8,100.0	90.10	269.55	4,975.3	-476.3	-3,242.3	3,245.9	0.00	0.00	
8,200.0	90.10	269.55	4,975.2	-477.1	-3,342.3	3,345.9	0.00	0.00	
8,300.0	90.10	269.55	4,975.0	-477.8	-3,442.3	3,445.9	0.00	0.00	
8,400.0	90.10	269.55	4,974.8	-478.6	-3,542.3	3,545.9	0.00	0.00	
8,500.0	90.10	269.55	4,974.6	-479.4	-3,642.3	3,645.9	0.00	0.00	
8,600.0	90.10	269.55	4,974.5	-480.2	-3,742.3	3,745.9	0.00	0.00	
8,700.0	90.10	269.55	4,974.3	-481.0	-3,842.3	3,845.9	0.00	0.00	
8,800.0	90.10	269.55	4,974.1	-481.8	-3,942.3	3,945.9	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: San Juan County, NM
Site: S36-T24N-R10W (Good Times)
Well: Good Times P36-2410 02H
Wellbore: HZ
Design: Plan #3

Local Co-ordinate Reference: Well Good Times P36-2410 02H
TVD Reference: KB @ 6890.0ft (Aztec)
MD Reference: KB @ 6890.0ft (Aztec)
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
8,900.0	90.10	269.55	4,973.9	-482.6	-4,042.3	4,045.9	0.00	0.00	
9,000.0	90.10	269.55	4,973.8	-483.3	-4,142.3	4,145.9	0.00	0.00	
9,100.0	90.10	269.55	4,973.6	-484.1	-4,242.3	4,245.9	0.00	0.00	
9,200.0	90.10	269.55	4,973.4	-484.9	-4,342.3	4,345.9	0.00	0.00	
9,300.0	90.10	269.55	4,973.2	-485.7	-4,442.3	4,445.9	0.00	0.00	
9,400.0	90.10	269.55	4,973.1	-486.5	-4,542.3	4,545.9	0.00	0.00	
9,500.0	90.10	269.55	4,972.9	-487.3	-4,642.3	4,645.9	0.00	0.00	
9,518.4	90.10	269.55	4,972.9	-487.4	-4,660.7	4,664.4	0.00	0.00	TD at 9518.4

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
P36-2410 02H BHL	0.00	359.99	4,605.8	429.9	-4,660.5	1,916,866.46	2,716,462.51	36.268030	-107.855840
- plan misses target center by 988.0ft at 9511.7ft MD (4972.9 TVD, -487.4 N, -4654.0 E)									
- Point									
P36-2410 02H BHL P3	0.00	359.99	4,972.9	-487.4	-4,660.7	1,915,949.12	2,716,462.30	36.265510	-107.855840
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
5,216.2	4,941.5	7" Casing Setting Depth	7.000	7.500
500.0	500.0	9 5/8"	9.625	12.250

Formations

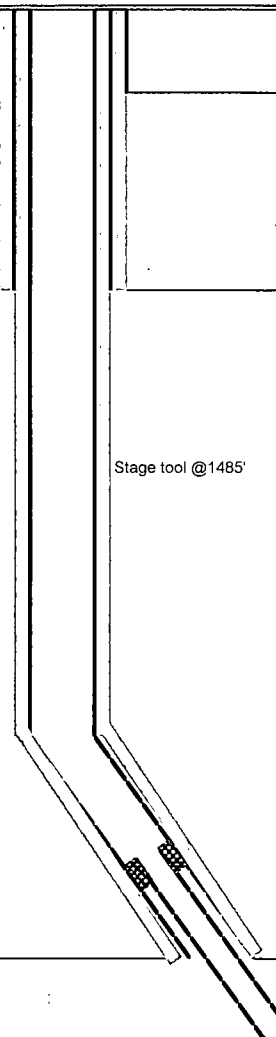
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
605.0	605.0	Ojo Alamo Ss.		-0.10	269.55
727.0	727.0	Kirtland Shale		-0.10	269.55
980.0	980.0	Fruitland Coal		-0.10	269.55
1,435.0	1,435.0	Pictured Cliffs Ss.		-0.10	269.55
1,490.0	1,490.0	Lewis Shale		-0.10	269.55
2,065.0	2,065.0	Cliffhouse Ss.		-0.10	269.55
2,655.0	2,655.0	Menefee Fn.		-0.10	269.55
3,744.0	3,744.0	Point Lookout Ss.		-0.10	269.55
3,924.0	3,924.0	Mancos Shale		-0.10	269.55
4,457.5	4,453.0	Mancos Silt		-0.10	269.55
4,798.7	4,725.0	Gallup Fn.		-0.10	269.55

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times P36-2410 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 6890.0ft (Aztec)
Project:	San Juan County, NM	MD Reference:	KB @ 6890.0ft (Aztec)
Site:	S36-T24N-R10W (Good Times)	North Reference:	True
Well:	Good Times P36-2410 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #3		

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'
4,682.3	4,642.5	-148.4	-46.3	Start build/turn @ 4682' MD
5,462.6	4,979.9	-455.6	-605.0	LP @ 4979' TVD; 90.1°
9,518.4	4,972.9	-487.4	-4,660.7	TD at 9518.4

LOC: Sec 36-T24N-R10W County: San Juan WELL: Good Times P36-2410 02H			Encana Natural Gas WELL SUMMARY					ENG: 6/27/13 RIG: GLE: 6874 RKBE: 6890	
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 Fruitland Coal Pictured Cliffs Ss Lewis Shale Cliffhouse Ss Menefee Fn	605 727 980 1435 1490 2065 2655			8 3/4	7" 26ppf J55 LTC TOC @ surface 30% OH excess: 535 sksTotal. Stage 1 Lead: 240sks Stage 1 Tail: 165sks. Stage 2 Lead: 130sks	Fresh Wtr 8.5-8.8	Vertical <1°
	Mud logger onsite	Point Lookout Ss KICK OFF PT Mancos Sh Mancos Silt Gallup Top 7" csg depth	3744 4250 3924 4453 4725 4942	5216					KOP 4250 10 deg/100'
Surveys every 500' Gyro at CP MWD Gamma Directional	No OH Logs	horz target Base Gallup	4980 5052	5463		6 1/8	200' overlap at liner top 4055' Lateral	8.6-9.0 OBM Switch to OBM 8.6-9.0	.25deg updip 4973'TVD TD = 9518' MD
							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		

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 5463' MD
- 7) R&C 7" casing, circ cmt to surface, switch to OBM
- 8) Land at 90deg, drill 4055' lateral to 9518', run 4 1/2" liner with external swellable csg packers