Form 3160-5 (August 2007)

RECEIVED

SEP 27 2012

Farmington Field Office
Bureau of Land Management

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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*

5. Lease Serial No. **SF-078039-A**

6 If Indian, Allottee or Tribe Name

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

1 Type of Well: [ ] Oil Well [X] Gas Well [ ] Other

8. Well Name and No **Primo Mudge 1C**

2 Name of Operator **Burlington Resources Oil & Gas Company LP**

9 API Well No **30-045-35202**

3a Address **PO Box 4289, Farmington, NM 87499**

3b. Phone No. (include area code) **(505) 326-9700**

10 Field and Pool or Exploratory Area **BASIN MANCOS**

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

Surface **UNIT L (NWSW), 1571' FSL & 1115' FWL, Sec. 24, T32N, R11W**
Bottomhole **UNIT J (NWSE), 1720' FSL & 2480' FEL, Sec. 24, T32N, R11W**

11 Country or Parish, State **San Juan , New Mexico**

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

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

WFK

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 recomplete 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 recompletion 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)

Burlington Resources requests permission to change the surface casing setting depth from the APD approved depth of 290' to 320' and the Intermediate casing setting depth from the APD approved depth of 3,864' to 4,613' due to a large step out in the directional drill. The new Project Proposal and Directional Plan are attached.

RCVD OCT 2'12
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct Name *(Printed/Typed)*

Denise Journey — Title **Regulatory Technician**

Signature Denise Journey — Date **9/26/2012**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **Original Signed: Stephen Mason** — Title — Date OCT 0 1 2012

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

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

(Instruction on page 2)

NMOCD

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

PRIMO MUDGE 1C **DEVELOPMENT**

Lease:	AFE #: WAN.CDR.9423			AFE $: 0.00
Field Name: SAN JUAN	Rig: Aztec Rig 730	State: NM	County: SAN JUAN	API #: 3004535202

Geologist:	Phone:	Geophysicist:	Phone:
Geoscientist:	Phone:	Prod. Engineer:	Phone:
Res. Engineer:	Phone:	Proj. Field Lead:	Phone:

Primary Objective (Zones):

Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)
FRR	BASIN DAKOTA (PRORATED GAS)

Location: Surface Datum Code: NAD 27 **Directional**

Latitude: 36.967678	Longitude: -107.945998	X:	Y:	Section: 24	Range: 011W
Footage X: 1115 FWL	Footage Y: 1571 FSL	Elevation: 6407 (FT)	Township: 032N		
Tolerance:					

Location: Bottom Hole Datum Code: NAD 27 **Directional**

Latitude: 36.968068	Longitude: -107.940518	X:	Y:	Section: 24	Range: 011W
Footage X: 2480 FEL	Footage Y: 1720 FSL	Elevation: (FT)	Township: 032N		
Tolerance:					

Location Type: Year Round Start Date (Est.): 1/1/2012 Completion Date: Date In Operation:

Formation Data: Assume KB = 6422 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NACIMIENTO	239	6183		☐			
Surface Casing	320	6102		☐			12-1/4 hole. 290' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	1676	4746		☐			
KIRTLAND	1862	4560		☐			
FRUITLAND	2562	3860		☐			Possible Gas
PICTURED CLIFFS	3188	3234		☐			
LEWIS	3334	3088		☐			
HUERFANITO BENTONITE	3864	2558		☐			
CHACRA	4332	2090		☐			
Intermediate Casing	4613	1809		☐		126	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1110 cuft. Circulate cement to surface.
UPPER CLIFF HOUSE	4711	1711		☐			Gas; Est. Top Perf - 4713 (1709)
MASSIVE CLIFF HOUSE	5024	1398		☐	238		Gas; Cliffhouse is dry
MENEFEE	5094	1328		☐			
POINT LOOKOUT	5446	976		☐			
MANCOS	5814	608		☐			
UPPER GALLUP	6810	-388		☐			
GREENHORN	7514	-1092		☐			
GRANEROS	7565	-1143		☐			
TWO WELLS	7637	-1215		☐	3050		Gas
PAGUATE	7705	-1283		☐			
UPPER CUBERO	7728	-1306		☐			

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ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

PRIMO MUDGE 1C | **DEVELOPMENT**

LOWER CUBERO	7742	-1320	☐		Est. Btm Perf - 7828 (- 1406) based on offset wells
ENCINAL	7808	-1386	☐		TD - 35' below T/ENCN
Total Depth	7843	-1421	☐	227	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 425 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Barnes 1	32N 11W 26 NE NE
Production	Page 1B	32N 10W 18 S2 NE SW
Production	Brown Federal J-1	32N 11W 13 NE SW SW
Production	Barnes 1E	32N 11W 26 NW SE NW

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☑ Other

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips SJBU

San Juan Basin - New Mexico West Wells
Other Named Wells
Primo Mudge #1C

Principal Wellbore

Plan: Plan #1

Standard Planning Report

26 September, 2012

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well Primo Mudge #1C
Company:	ConocoPhillips SJBU	**TVD Reference:**	RKB @ 6422.0usft (AWS RIG)
Project:	San Juan Basin - New Mexico West Wells	**MD Reference:**	RKB @ 6422.0usft (AWS RIG)
Site:	Other Named Wells	**North Reference:**	Grid
Well:	Primo Mudge #1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Project San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site Other Named Wells

Site Position:		**Northing:**	2,108,178.26 usft	**Latitude:**	36° 47' 33.793 N
From:	Lat/Long	**Easting:**	643,887.63 usft	**Longitude:**	107° 20' 30.932 W
Position Uncertainty:	15.0 usft	**Slot Radius:**	6-1/8"	**Grid Convergence:**	0.29 °

Well Primo Mudge #1C, Directional "S" Curve Long, Lewis not included

Well Position	**+N/-S**	0.0 usft	**Northing:**	2,171,522.43 usft	**Latitude:**	36° 58' 3.645 N
	+E/-W	0.0 usft	**Easting:**	467,085.85 usft	**Longitude:**	107° 56' 45 598 W
Position Uncertainty		3.5 usft	**Wellhead Elevation:**	usft	**Ground Level:**	6,407.0 usft

Wellbore Principal Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/21/2010	10.08	63 68	50,914

Design Plan #1

Audit Notes:

Version:	1	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0.0	0.0	85 01

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
0.0	0.00	0.00	0 0	0.0	0 0	0.00	0 00	0.00	0.00	
420.0	0.00	0.00	420.0	0 0	0.0	0.00	0.00	0.00	0.00	
1,282.9	25.89	85.01	1,253.9	16 7	190.9	3 00	3.00	0.00	85.01	
4,089.9	25.89	85.01	3,779.1	123.3	1,411.8	0 00	0.00	0.00	0.00	
4,952.8	0.00	0.00	4,613.0	139 9	1,602.8	3.00	-3.00	0.00	180.00	Primo Mudge #1C - IC
8,182.8	0.00	0 00	7,843.0	139 9	1,602 8	0 00	0.00	0.00	0 00	Primo Mudge #1C - P

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well Primo Mudge #1C
Company:	ConocoPhillips SJBU	**TVD Reference:**	RKB @ 6422.0usft (AWS RIG)
Project:	San Juan Basin - New Mexico West Wells	**MD Reference:**	RKB @ 6422.0usft (AWS RIG)
Site:	Other Named Wells	**North Reference:**	Grid
Well:	Primo Mudge #1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

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)
0.0	0.00	0 00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
239.0	0.00	0.00	239.0	0.0	0.0	0.0	0.00	0.00	0.00
Nacimiento									
290.0	0.00	0.00	290.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface Casing									
420.0	0.00	0.00	420.0	0 0	0.0	0.0	0 00	0.00	0.00
500.0	2.40	85.01	500.0	0.1	1.7	1.7	3.00	3.00	0.00
600.0	5.40	85.01	599.7	0.7	8.4	8.5	3 00	3 00	0.00
700.0	8.40	85.01	699.0	1.8	20.4	20.5	3 00	3 00	0 00
800.0	11.40	85.01	797.5	3.3	37.5	37.7	3.00	3.00	0.00
900.0	14.40	85.01	895.0	5.2	59.8	60.0	3.00	3.00	0.00
1,000.0	17.40	85.01	991.1	7.6	87.1	87.4	3.00	3.00	0.00
1,100.0	20.40	85.01	1,085.7	10.4	119.3	119.8	3.00	3.00	0.00
1,200.0	23.40	85.01	1,178.5	13.7	156.5	157.1	3.00	3.00	0.00
1,282.9	25.89	85.01	1,253.9	16.7	190.9	191.7	3.00	3.00	0.00
1,300.0	25.89	85.01	1,269.2	17.3	198.4	199.1	0.00	0.00	0.00
1,400.0	25.89	85.01	1,359.2	21.1	241.8	242.8	0.00	0.00	0.00
1,500.0	25.89	85 01	1,449.2	24.9	285.3	286.4	0.00	0.00	0.00
1,600.0	25.89	85.01	1,539.1	28.7	328.8	330.1	0.00	0.00	0.00
1,700.0	25.89	85.01	1,629.1	32 5	372.3	373.8	0.00	0.00	0.00
1,752.1	25.89	85.01	1,676.0	34.5	395.0	396.5	0.00	0.00	0.00
Ojo Alamo									
1,800.0	25.89	85.01	1,719.0	36.3	415.8	417.4	0.00	0.00	0.00
1,900.0	25.89	85.01	1,809.0	40.1	459.3	461.1	0.00	0.00	0 00
1,958.9	25.89	85.01	1,862.0	42.3	484.9	486.8	0.00	0.00	0.00
Kirtland									
2,000 0	25.89	85.01	1,899.0	43.9	502.8	504.7	0.00	0.00	0 00
2,100.0	25 89	85.01	1,988.9	47.7	546.3	548.4	0.00	0.00	0 00
2,200.0	25.89	85.01	2,078.9	51.5	589.8	592.1	0 00	0 00	0.00
2,300 0	25 89	85.01	2,168.9	55.3	633.3	635.7	0 00	0.00	0.00
2,347.9	25.89	85.01	2,212.0	57.1	654.2	656.6	0.00	0.00	0.00
Stage Tool									
2,400.0	25.89	85.01	2,258.8	59.1	676.8	679.4	0.00	0.00	0.00
2,500.0	25.89	85.01	2,348.8	62.9	720.3	723.0	0.00	0.00	0 00
2,600.0	25.89	85.01	2,438.8	66.7	763.8	766.7	0.00	0 00	0.00
2,700.0	25.89	85.01	2,528.7	70.5	807.3	810.4	0.00	0 00	0 00
2,737.0	25.89	85.01	2,562.0	71.9	823.4	826.5	0 00	0.00	0.00
Fruitland									
2,800 0	25 89	85.01	2,618.7	74.3	850.8	854.0	0.00	0.00	0.00
2,900 0	25.89	85.01	2,708.7	78.1	894.3	897.7	0.00	0.00	0.00
3,000.0	25 89	85.01	2,798.6	81.9	937 8	941.3	0.00	0.00	0.00
3,100.0	25.89	85.01	2,888.6	85.7	981.3	985.0	0.00	0.00	0.00
3,200.0	25 89	85.01	2,978.6	89.5	1,024.8	1,028.7	0.00	0.00	0.00
3,300.0	25.89	85.01	3,068.5	93.3	1,068.3	1,072.3	0.00	0.00	0 00
3,400.0	25.89	85.01	3,158.5	97.1	1,111.8	1,116.0	0.00	0.00	0.00
3,432.8	25.89	85.01	3,188.0	98.3	1,126.0	1,130.3	0.00	0.00	0.00
Pictured Cliffs									
3,500.0	25.89	85.01	3,248.5	100.9	1,155.3	1,159.7	0.00	0.00	0.00
3,595.1	25 89	85.01	3,334.0	104 5	1,196 6	1,201.2	0.00	0.00	0.00
Lewis									
3,600 0	25.89	85.01	3,338.4	104.7	1,198 8	1,203.3	0.00	0.00	0 00
3,700 0	25.89	85.01	3,428.4	108.5	1,242.2	1,247.0	0.00	0.00	0.00
3,800.0	25.89	85.01	3,518.3	112.3	1,285.7	1,290.6	0.00	0 00	0.00

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well Primo Mudge #1C
Company:	ConocoPhillips SJBU	**TVD Reference:**	RKB @ 6422.0usft (AWS RIG)
Project:	San Juan Basin - New Mexico West Wells	**MD Reference:**	RKB @ 6422.0usft (AWS RIG)
Site:	Other Named Wells	**North Reference:**	Grid
Well:	Primo Mudge #1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

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)
3,900.0	25.89	85.01	3,608.3	116 1	1,329.2	1,334.3	0.00	0.00	0.00
4,000.0	25.89	85 01	3,698.3	119 9	1,372.7	1,378.0	0.00	0.00	0.00
4,089.9	25.89	85.01	3,779.1	123.3	1,411.8	1,417.2	0.00	0.00	0.00
4,100.0	25.58	85.01	3,788.3	123.7	1,416.2	1,421.6	3 00	-3.00	0.00
4,183.1	23 09	85.01	3,864.0	126.6	1,450.3	1,455.9	3.00	-3.00	0.00
Huerfanito Bentonite - Intermediate Casing									
4,200.0	22.58	85.01	3,879.5	127.2	1,456.9	1,462.4	3.00	-3.00	0.00
4,300 0	19.58	85.01	3,972.8	130.3	1,492.7	1,498.4	3.00	-3 00	0.00
4,400.0	16.58	85.01	4,067.9	133.0	1,523.6	1,529.4	3 00	-3 00	0.00
4,500.0	13 58	85.01	4,164.4	135.3	1,549.5	1,555.4	3.00	-3.00	0.00
4,600.0	10 58	85.01	4,262 2	137.1	1,570.4	1,576.4	3 00	-3.00	0.00
4,670.8	8.46	85.01	4,332.0	138.1	1,582.0	1,588.1	3.00	-3.00	0.00
Chacra									
4,700.0	7.58	85.01	4,360.9	138.5	1,586.1	1,592.1	3 00	-3.00	0.00
4,800.0	4.58	85.01	4,460.4	139.4	1,596.7	1,602.7	3.00	-3.00	0.00
4,900.0	1.58	85.01	4,560.2	139 9	1,602.0	1,608.1	3.00	-3.00	0 00
4,952 8	0 00	0.00	4,613.0	139 9	1,602.8	1,608.9	3.00	-3.00	-161.00
Primo Mudge #1C - ICP									
5,000.0	0.00	0.00	4,660.2	139.9	1,602.8	1,608.9	0.00	0.00	0.00
5,050.8	0.00	0.00	4,711.0	139.9	1,602.8	1,608.9	0 00	0.00	0.00
Upper Cliffhouse									
5,100.0	0.00	0.00	4,760.2	139.9	1,602.8	1,608.9	0.00	0.00	0.00
5,200.0	0.00	0.00	4,860.2	139.9	1,602.8	1,608.9	0 00	0 00	0.00
5,300.0	0.00	0 00	4,960.2	139.9	1,602.8	1,608.9	0 00	0.00	0.00
5,363.8	0.00	0.00	5,024.0	139.9	1,602.8	1,608.9	0.00	0.00	0.00
Massive Cliffhouse									
5,400.0	0.00	0.00	5,060.2	139.9	1,602 8	1,608.9	0.00	0.00	0.00
5,433.8	0.00	0.00	5,094.0	139.9	1,602.8	1,608.9	0 00	0.00	0.00
Menefee									
5,500.0	0.00	0 00	5,160.2	139.9	1,602.8	1,608.9	0.00	0.00	0.00
5,600 0	0.00	0.00	5,260.2	139.9	1,602.8	1,608.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,360.2	139.9	1,602.8	1,608.9	0.00	0.00	0.00
5,785.8	0.00	0.00	5,446.0	139.9	1,602.8	1,608.9	0.00	0.00	0 00
Point Lookout									
5,800 0	0.00	0.00	5,460.2	139.9	1,602.8	1,608.9	0 00	0.00	0.00
5,900.0	0.00	0.00	5,560.2	139 9	1,602.8	1,608.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,660 2	139 9	1,602.8	1,608.9	0.00	0.00	0.00
6,100.0	0.00	0.00	5,760.2	139.9	1,602.8	1,608.9	0 00	0.00	0.00
6,153.8	0.00	0.00	5,814.0	139 9	1,602.8	1,608.9	0.00	0.00	0.00
Mancos									
6,200.0	0.00	0.00	5,860.2	139 9	1,602.8	1,608.9	0.00	0.00	0.00
6,300.0	0.00	0.00	5,960.2	139.9	1,602.8	1,608.9	0.00	0.00	0.00
8,182 8	0.00	0.00	7,843.0	139.9	1,602.8	1,608.9	0.00	0.00	0.00
Total Depth - Production Casing - Primo Mudge #1C - PCP									

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well Primo Mudge #1C
Company:	ConocoPhillips SJBU	**TVD Reference:**	RKB @ 6422.0usft (AWS RIG)
Project:	San Juan Basin - New Mexico West Wells	**MD Reference:**	RKB @ 6422.0usft (AWS RIG)
Site:	Other Named Wells	**North Reference:**	Grid
Well:	Primo Mudge #1C	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

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
Primo Mudge #1C - PCF - plan hits target center - Circle (radius 100.0)	0.00	0.06	7,843.0	139.9	1,602.8	2,171,662.36	468,688.48	36° 58' 5.047 N	107° 56' 25.851 W
Primo Mudge #1C - ICP - plan hits target center - Circle (radius 100.0)	0.00	0 06	4,613.0	139.9	1,602.8	2,171,662.36	468,688.48	36° 58' 5.047 N	107° 56' 25.851 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
290.0	290 0	Surface Casing	9-5/8	12-1/4
4,183.1	3,864.0	Intermediate Casing	7	8-3/4
8,182.8	7,843.0	Production Casing	4-1/2	6-1/4

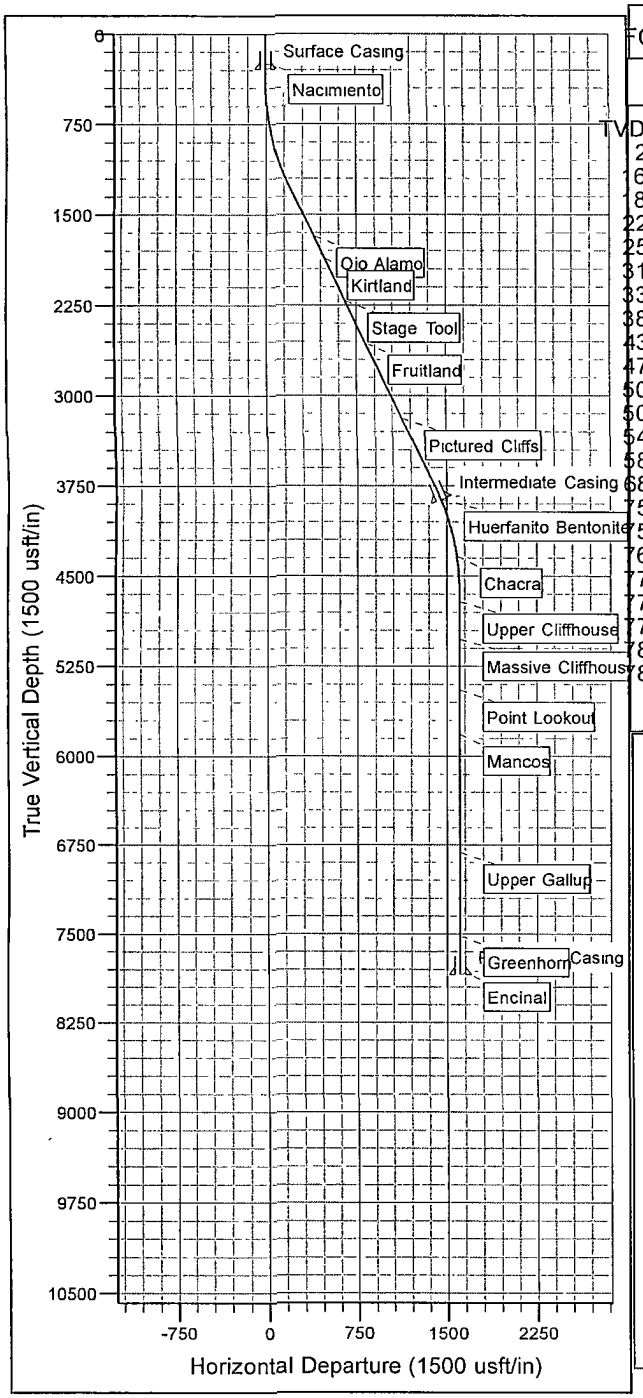
Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,363 8	5,024.0	Massive Cliffhouse		0.00	
7,976.8	7,637.0	Two Wells		0.00	
1,752.1	1,676.0	Ojo Alamo		0.00	
8,147 8	7,808.0	Encinal		0.00	
7,853.8	7,514 0	Greenhorn		0 00	
4,670.8	4,332.0	Chacra		0.00	
2,737.0	2,562.0	Fruitland		0.00	
7,904.8	7,565.0	Graneros		0.00	
1,958.9	1,862.0	Kirtland		0.00	
8,044.8	7,705.0	Paguate		0.00	
2,347.9	2,212.0	Stage Tool		0.00	
5,785.8	5,446.0	Point Lookout		0.00	
7,149.8	6,810 0	Upper Gallup		0.00	
5,433.8	5,094.0	Menefee		0.00	
8,081.8	7,742.0	Lower Cubero		0.00	
6,153.8	5,814.0	Mancos		0.00	
3,432.8	3,188.0	Pictured Cliffs		0.00	
8,067.8	7,728 0	Upper Cubero		0.00	
4,183.1	3,864.0	Huerfanito Bentonite		0.00	
8,182.8	7,843.0	Total Depth		0.00	
5,050.8	4,711.0	Upper Cliffhouse		0.00	
3,595.1	3,334.0	Lewis		0.00	
239.0	239.0	Nacimiento		0 00	

REFERENCE INFORMATION	Project: San Juan Basin - New Mexico West V
RKB @ 6422.0usft (AWS RIG) Ground Elevation 6407.0 Reference Lat: 36° 58' 3.645 N Reference Long: 107° 56' 45.598 W	Site: Other Named Wells Well: Primo Mudge #1C Wellbore: Principal-Wellbore Design: Plan #1

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	420.0	0.00	0.00	420.0	0.0	0.0	0.00	0.00	0.0	
3	1282.9	25.89	85.01	1253.9	16.7	190.9	3.00	85.01	191.7	
4	4089.9	25.89	85.01	3779.1	123.3	1411.8	0.00	0.00	1417.2	
5	4952.8	0.00	0.00	4613.0	139.9	1602.8	3.00	180.00	1608.9	Primo Mudge #1C - ICP
6	8182.8	0.00	0.00	7843.0	139.9	1602.8	0.00	0.00	1608.9	Primo Mudge #1C - PCP



FORMATION TOP DETAILS

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle
239.0	239.0	Nacimiento	0.00
1676.0	1752.1	Ojo Alamo	0.00
1862.0	1958.9	Kirtland	0.00
2212.0	2347.9	Stage Tool	0.00
2562.0	2737.0	Fruitland	0.00
3188.0	3432.8	Pictured Cliffs	0.00
3334.0	3595.1	Lewis	0.00
3864.0	4183.1	Huerfanito Bentonite	0.00
4332.0	4670.8	Chacra	0.00
4711.0	5050.8	Upper Cliffhouse	0.00
5024.0	5363.8	Massive Cliffhouse	0.00
5094.0	5433.8	Menefee	0.00
5446.0	5785.8	Point Lookout	0.00
5814.0	6153.8	Mancos	0.00
6810.0	7149.8	Upper Gallup	0.00
7514.0	7853.8	Greenhorn	0.00
7565.0	7904.8	Graneros	0.00
7637.0	7976.8	Two Wells	0.00
7705.0	8044.8	Paguate	0.00
7728.0	8067.8	Upper Cubero	0.00
7742.0	8081.8	Lower Cubero	0.00
7808.0	8147.8	Encinal	0.00
7843.0	8182.8	Total Depth	0.00