

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 23 2008

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.*

5. Lease Serial No.  
NMSF-078771

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
WILLIAMS PRODUCTION CO., LLC

3a. Address  
P. O BOX 640  
AZTEC, NM 87410

3b. Phone No (include area code)  
(505) 634-4208

4. Location of Well (Footage, Sec, T, R, M., or Survey Description)  
Surface - 380' FSL & 1135' FEL  
BHL - 380' FSL & 330' FWL      Sec 11, T31N, R6W

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

8. Well Name and No.  
ROSA UNIT #9C

9. API Well No.  
30-039-30179

10. Field and Pool or Exploratory Area  
BLANCO MV/BASIN DK

11. Country or Parish, State  
RIO ARRIBA, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomplate 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 recomplate 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 )

*ht*

Due to change in plans Williams Production intends to drill this well an a Mesaverde/Dakota dual completion. See attached plat, drilling plan and directional plan.

**CONDITIONS OF APPROVAL**  
Adhere to previously issued stipulations.

**NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT**  
RCV 29 '08  
OIL CONS. DIV.  
DIST. 3

Hold C104  
for Directional Survey  
and "As Drilled" plat + Bottom hole deviation survey

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

Title Drilling COM

Signature *Larry Higgins*

Date 09/23/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by *[Signature]*

Title *Petr. Eng*

Date *9/26/08*

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

(Instructions on page 2)

**NMOCD #6**

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
1301 W. Grand Avenue, Artesia, NM 88210

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

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

Form C-102  
Revised October 12, 2005  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-039-30179</b>		<sup>2</sup> Pool Code 72319 / 71599		<sup>3</sup> Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
<sup>4</sup> Property Code 17033		<sup>5</sup> Property Name ROSA UNIT			<sup>6</sup> Well Number 9C
<sup>7</sup> GRID No. 120782		<sup>8</sup> Operator Name WILLIAMS PRODUCTION COMPANY			<sup>9</sup> Elevation 6386'

<sup>10</sup> Surface Location

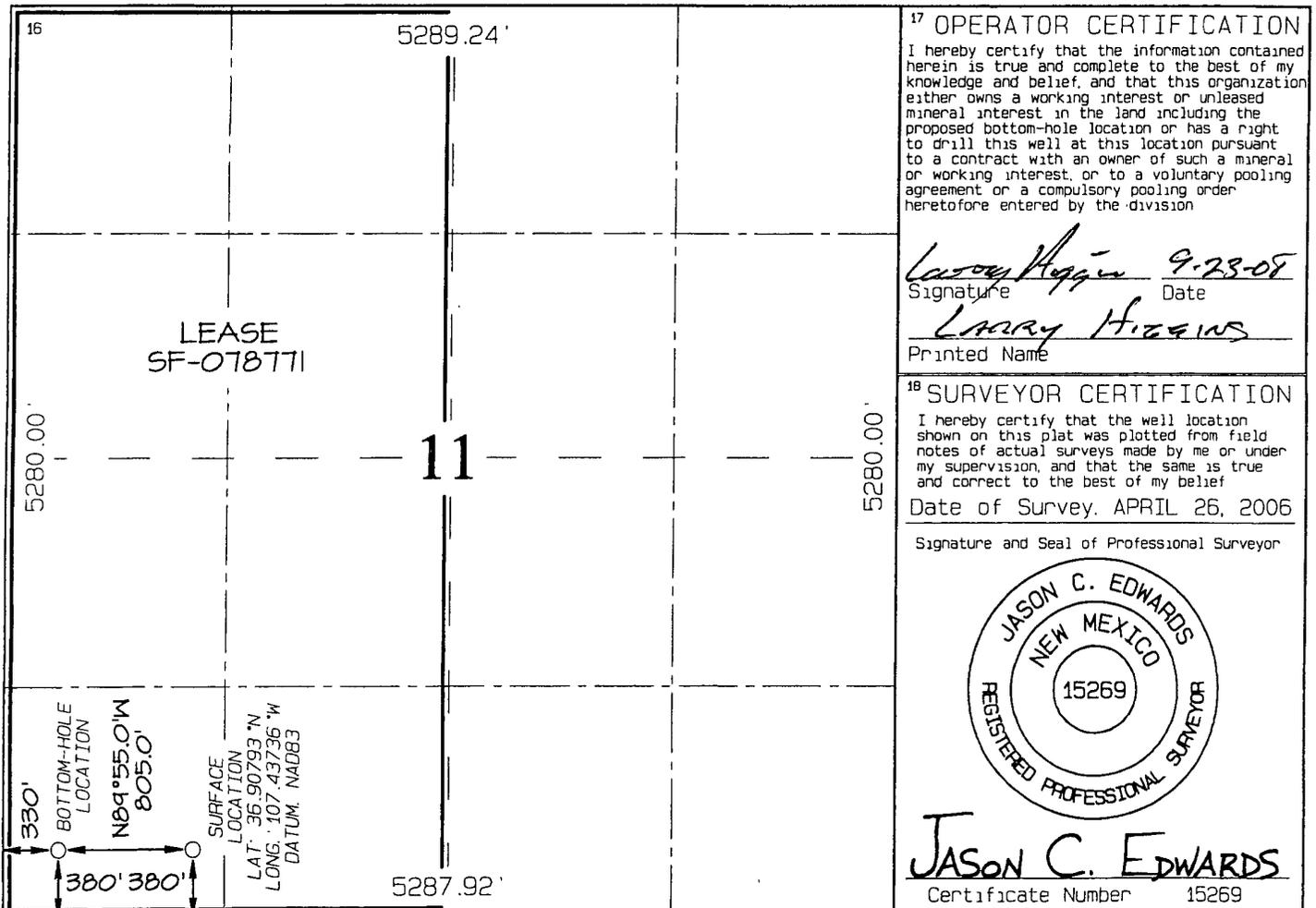
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	11	31N	6W		380	SOUTH	1135	WEST	RIO ARRIBA

<sup>11</sup> 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	11	31N	6W		380	SOUTH	330	WEST	RIO ARRIBA

<sup>12</sup> Dedicated Acres 320.0 Acres - (W/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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





**III. MATERIALS****A. CASING PROGRAM:**

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	14 3/4	300	10 3/4	40.5	K-55
Intermediate	9 7/8	3,821	7 5/8	26.4	K-55
Longstring	6 3/4	8,191	5 1/2	17	N-80

**B. FLOAT EQUIPMENT:**

1. SURFACE CASING: 10 3/4" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
2. INTERMEDIATE CASING: 7 5/8" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
3. PRODUCTION LINER / CASING: 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

**C. CEMENTING:**

*(Note: Volumes may be adjusted onsite due to actual conditions)*

1. SURFACE: Slurry: 255sx (356 cu.ft.) of "Type III" + 2% CaCl<sub>2</sub> + ¼ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
2. INTERMEDIATE: Lead - 655 sx (1,363) cu.ft.) of "Premium Light with 8% gel and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 100 sx (139cu.ft.) of "Type III" with 1/4# cello-flake/sk, (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use **100% excess in Lead Slurry** to circulate to surface. **No excess in Tail Slurry**. Total volume = 1,502 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
3. PRODUCTION CASING: 10 bbl Gelled Water space. Cement: 210 sx (450 ft<sup>3</sup>) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft<sup>3</sup>/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess in slurry should cover 100 ft into intermediate casing. Total volume 448ft<sup>3</sup>. WOC 12 hours

**IV. IV COMPLETION****A. CBL**

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement not circulated to surface..

**B. PRESSURE TEST**

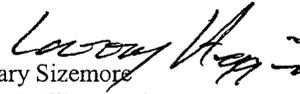
1. Pressure test 5-1/2" casing to 6000 psi max, hold at 1500 psi for 30 minutes.

**C. STIMULATION**

1. Stimulate Dakota with approximately 10,000# of LiteProp 108™ sand in slick water..
2. Isolate Dakota with a RBP.
3. Stimulate Point Lookout with approximately 9300# of 14/30 LiteProp™ in slick water.
4. Isolate Point Lookout with a RBP.
5. Perforate the Menefee/Cliff House as determined from the open hole logs.
6. Stimulate with approximately 9300# of 14/30 LiteProp™ in slick water.
7. Test each zone before removing bridge plugs.

**D. RUNNING TUBING**

1. Dakota: Run 2-1/16", 3.25#, J-55, IJ tubing with 1/2 mule shoe on bottom , SN with pump-out plug on top of adeem joint and 5 Seal Units. Land tubing approximately 100' below top Dakota perf.
2. Mesa Verde: Run 2-1/16", 2.9#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforations.

FOR   
Gary Sizemore  
Sr. Drilling Engineer



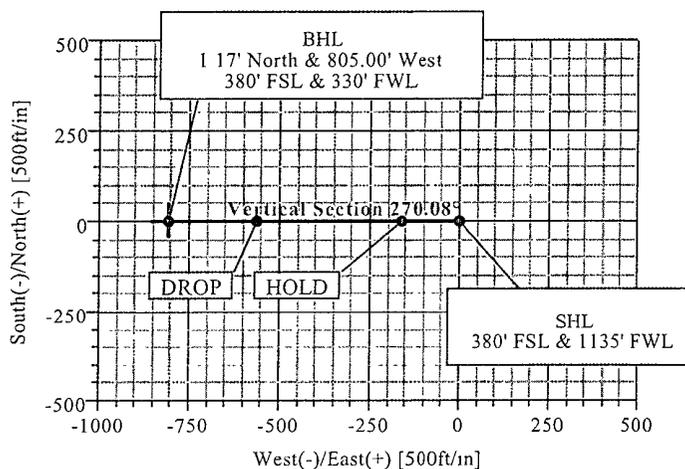
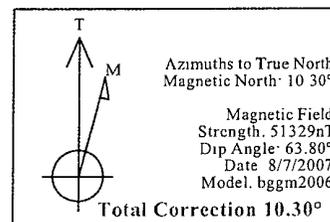
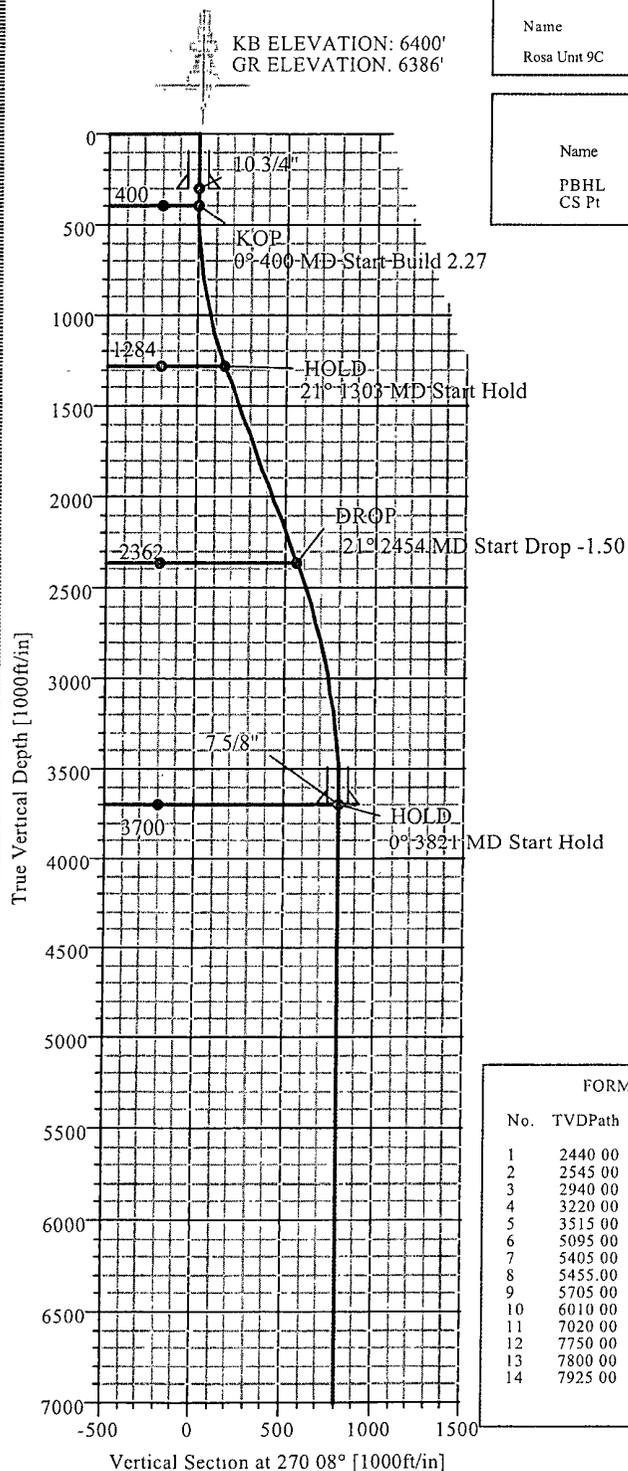
**Weatherford**

Rosa Unit 9C  
 Section 11 T31N R6W  
 380' FSL & 1135' FWL  
 Rio Arriba County, NM  
 Plan 2

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	270.08	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	270.08	400.00	0.00	0.00	0.00	0.00	0.00	
3	1302.67	20.50	270.08	1283.53	0.23	-159.77	2.27	270.08	159.77	
4	2454.38	20.50	270.08	2362.31	0.82	-563.11	0.00	0.00	563.11	
5	3821.04	0.00	270.08	3700.00	1.17	-805.00	1.50	180.00	805.00	CS Pt.
6	8191.04	0.00	270.08	8070.00	1.17	-805.00	0.00	270.08	805.00	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rosa Unit 9C	0.00	0.00	2150057.85	2838864.30	36°54'28.548N	107°26'14.496W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8070.00	1.17	-805.00	2150055.68	2838059.30	Point
CS Pt	3700.00	1.17	-805.00	2150055.68	2838059.30	Point



FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	2440.00	2537.00	Ojo Alamo
2	2545.00	2647.68	Kirtland
3	2940.00	3055.94	Fruitland
4	3220.00	3339.77	Pictured Cliffs
5	3515.00	3635.97	Lewis
6	5095.00	5216.04	Cliff House Trans
7	5405.00	5526.04	Cliff House
8	5455.00	5576.04	Menefee
9	5705.00	5826.04	Point Lookout
10	6010.00	6131.04	Mancos
11	7020.00	7141.04	Gallup
12	7750.00	7871.04	Greenhorn
13	7800.00	7921.04	Graneros
14	7925.00	8046.04	Dakota

Plan: Plan #2 (Rosa Unit 9C)  
 Created by: Jose Perez Date: 08/07/07  
 Weatherford Drilling Services  
 11943 FM 529  
 Houston TX USA 77041  
 (713) 896 8194 MAIN  
 (713) 896 0498 FAX



# Weatherford Drilling Services Planning Report

Company: WILLIAMS PRODUCTION	Date: 8/7/2007	Time: 13:34:12	Page: 5
Field: Rio Arriba County (NAD:83)	Co-ordinate(NE) Reference:	Site: Rosa Unit 9C, True North	
Site: Rosa Unit 9C	Vertical (TVD) Reference:	SITE 6400.0	
Well: Rosa Unit 9C	Section (VS) Reference:	Well: (0.00N,0.00E,270.08Azi)	
Wellpath: 1	Plan:	Plan #2	

### Survey

MD ft.	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6800.00	0.00	270.08	6678.96	1.17	-805.00	805.00	0.00	0.00	0.00	
6900.00	0.00	270.08	6778.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7000.00	0.00	270.08	6878.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7100.00	0.00	270.08	6978.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7141.04	0.00	270.08	7020.00	1.17	-805.00	805.00	0.00	0.00	0.00	Gallup
7200.00	0.00	270.08	7078.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7300.00	0.00	270.08	7178.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7400.00	0.00	270.08	7278.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7500.00	0.00	270.08	7378.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7600.00	0.00	270.08	7478.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7700.00	0.00	270.08	7578.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7800.00	0.00	270.08	7678.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7871.04	0.00	270.08	7750.00	1.17	-805.00	805.00	0.00	0.00	0.00	Greenhorn
7900.00	0.00	270.08	7778.96	1.17	-805.00	805.00	0.00	0.00	0.00	
7921.04	0.00	270.08	7800.00	1.17	-805.00	805.00	0.00	0.00	0.00	Graneros
8000.00	0.00	270.08	7878.96	1.17	-805.00	805.00	0.00	0.00	0.00	
8046.04	0.00	270.08	7925.00	1.17	-805.00	805.00	0.00	0.00	0.00	Dakota
8100.00	0.00	270.08	7978.96	1.17	-805.00	805.00	0.00	0.00	0.00	
8191.04	0.00	270.08	8070.00	1.17	-805.00	805.00	0.00	0.00	0.00	PBHL

### Targets

Name	Description Dip	Dir	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude			Longitude				
								Deg	Min	Sec	Deg	Min	Sec		
CS Pt.			3700.00	1.17	-805.00	2150055.68	2838059.30	36	54	28.559	N	107	26	24.408	W
-Plan hit target															
PBHL			8070.00	1.17	-805.00	2150055.68	2838059.30	36	54	28.559	N	107	26	24.408	W
-Circle (Radius: 50)															
-Plan hit target															

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2537.00	2440.00	Ojo Alamo		0.00	0.00
2647.68	2545.00	Kirtland		0.00	0.00
3055.94	2940.00	Fruitland		0.00	0.00
3339.77	3220.00	Pictured Cliffs		0.00	0.00
3635.97	3515.00	Lewis		0.00	0.00
5216.04	5095.00	Cliff House Trans		0.00	0.00
5526.04	5405.00	Cliff House		0.00	0.00
5576.04	5455.00	Menefee		0.00	0.00
5826.04	5705.00	Point Lookout		0.00	0.00
6131.04	6010.00	Mancos		0.00	0.00
7141.04	7020.00	Gallup		0.00	0.00
7871.04	7750.00	Greenhorn		0.00	0.00
7921.04	7800.00	Graneros		0.00	0.00
8046.04	7925.00	Dakota		0.00	0.00

### Annotation

MD ft	TVD ft	
400.00	400.00	KOP
1302.67	1283.53	HOLD
2454.38	2362.31	DROP
3821.04	3700.00	HOLD