

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 ☐ Other2. Name of Operator
WILLIAMS PRODUCTION CO., LLC3a. Address
P. O. BOX 640
AZTEC, NM 874103b. Phone No (include area code)
(505) 634-42084. Location of Well (Footage, Sec, T, R, M., or Survey Description)
Surface - 380' FSL & 1135' FEL
BHL - 380' FSL & 330' FWL Sec 11, T31N, R6W7. If Unit of CA/Agreement, Name and/or No.
ROSA UNIT8. Well Name and No.
ROSA UNIT #9C9. API Well No.
30-039-3017910. Field and Pool or Exploratory Area
BLANCO MV/BASIN DK11. 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.)

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-SEP 23 '08
OIL CONS. DIV.

Hold C104

for Directional Survey
and "As Drilled" plat

DIST. 3

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

Larry Higgins

Title Drilling COM

Signature

Date 09/23/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Pet. 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

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

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
M	11	31N	6W		380	SOUTH	1135	WEST	RIO ARriba

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	11	31N	6W		380	SOUTH	330	WEST	RIO ARriba

¹² Dedicated Acres 320.0 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

<div><p>¹⁶</p><p>5289.24'</p><p>LEASE SF-078771</p><p>5280.00'</p><p>11</p><p>5280.00'</p><p>330'</p><p>BOTTOM-HOLE LOCATION</p><p>N89°55.0'W 805.0'</p><p>SURFACE LOCATION</p><p>LAT. 36.90793°N LONG. 107.43736°W DATUM: NAD83</p><p>380' 380'</p><p>5287.92'</p></div>	<div><p>¹⁷ OPERATOR CERTIFICATION</p><p>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 the division</p><p><i>Larry Higgins</i> 9-23-05 Signature Date</p><p><i>Larry Higgins</i> Printed Name</p><p>¹⁸ SURVEYOR CERTIFICATION</p><p>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</p><p>Date of Survey. APRIL 26, 2006</p><p>Signature and Seal of Professional Surveyor</p><p></p><p><i>JASON C. EDWARDS</i> Certificate Number 15269</p></div>
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WILLIAMS PRODUCTION COMPANY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 8/10/2007 **FIELD:** Basin DK/ BlancoMV
WELL NAME: Rosa #9C **SURFACE:** BLM
BH LOCATION: SWSW Sec 11-31N-6W **MINERALS:** BLM
Rio Arriba, NM
SURF LOCATION: SWSW Sec 11-31N-6W
Rio Arriba, NM
ELEVATION: 6,386' GR **LEASE #** SF-078771
MEASURED DEPTH: 8,191'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	2,537	2,440	Menefee	5,576	5,455
Kirtland	2,647	2,545	Point Lookout	5,826	5,705
Fruitland	3,055	2,940	Mancos	6,131	6,010
Pictured Cliffs	3,339	3,220	Gallup	7,141	7,020
Lewis	3,635	3,515	Greenhorn	7,871	7,750
Cliff House	5,526	5,405	Graneros	7,921	7,800
			Dakota	8,046	7,925
			TD	8,191	8,070

B. MUD LOGGING PROGRAM: Mudlogger on location at 100' above Gallup SS to TD. Mud logger to pick TD.

C. LOGGING PROGRAM: Cased Hole Logs only.

D. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM: Clear water with benex to 7-5/8" casing point. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use air w/Air Hammer from 7-5/8in. csg.to TD.

B. BOP TESTING: While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

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% CaCl₂ + 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 ft³) 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 ft³/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 448ft³. 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.

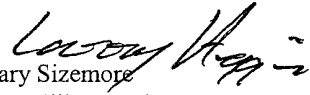
C. STIMULATION

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



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

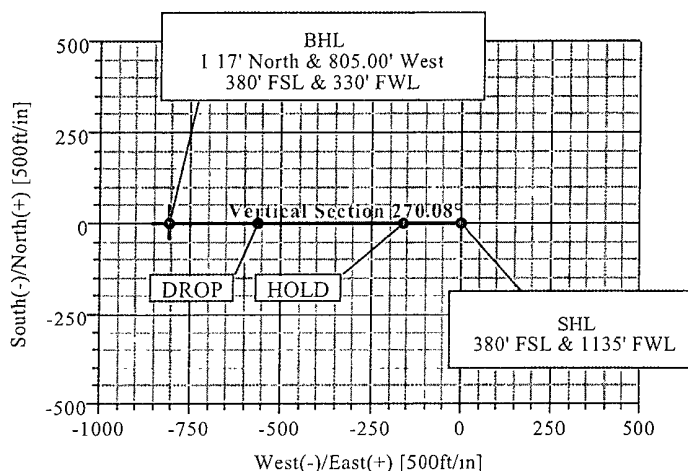
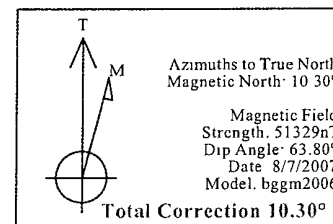
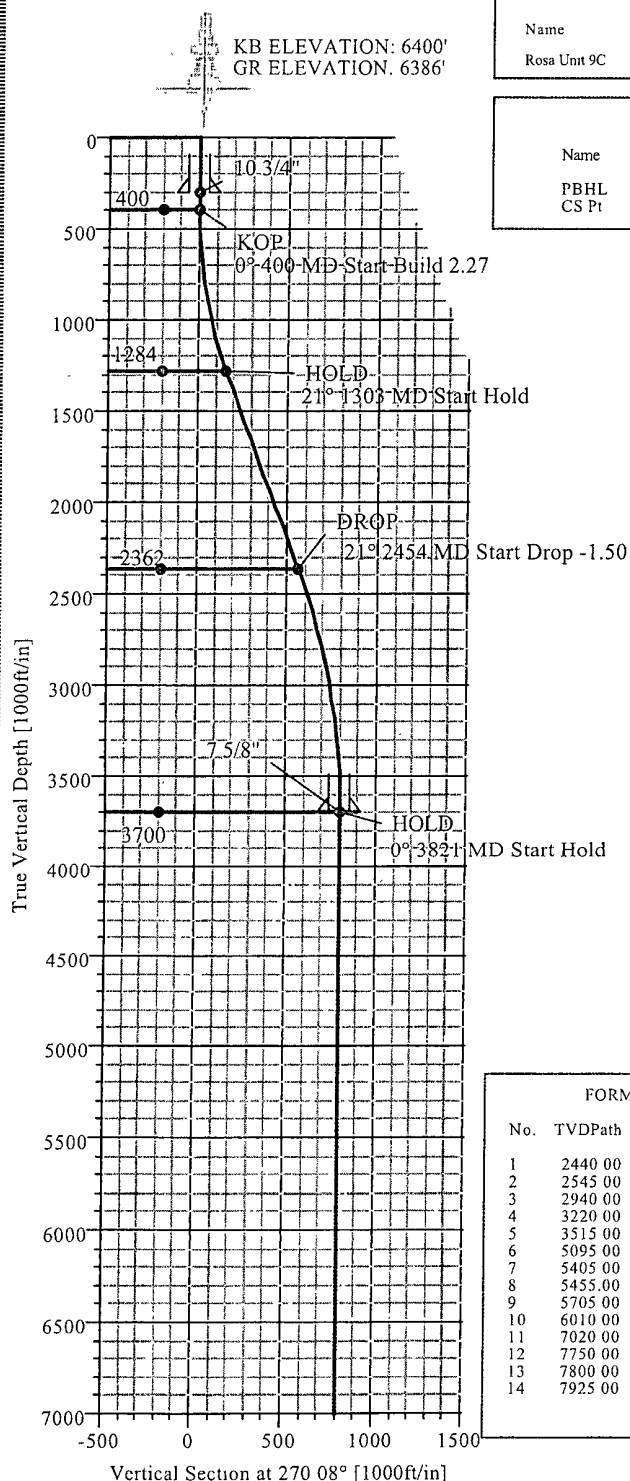


Weatherford®

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	Granerosos
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 Deg Min Sec	Longitude 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	Granerosos		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