

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0135

Expires November 30, 2000

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.

SF - 078039

6. If Indian, Allottee or tribe Name

7. Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Barnes LS 7N

9. API Well No.

30-045-32828

10. Field and Pool, or Exploratory Area

Basin Dakota & Blanco Mesaverde

11. County or Parish, State

San Juan County, New Mexico

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

BP America Production Company Attn: Cherry Hlava

3a. Address

P.O. Box 3092 Houston, TX 77253

3b. Phone No. (include area code)

281-366-4081

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

810' FSL & 745' FWL Sec 23 T32N R11W

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

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|--|---|--|--|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☐ Temporarily Abandon |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Water Disposal | |
| ☐ Injection | ☐ Plug Back | ☒ Other | Change to BH location |

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 recomple 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

The original APD was submitted on 05/04/2005 and approval was granted on 05/31/2005.

BP America respectfully requests permission to change the Bottom Hole location.

From: 710' FSL & 1350' FWL

To: 730' FSL & 1585' FWL

The surface remains the same. The Intermediate and Production casing will change slightly with very little increase in cement.

Please see the attached documentation.

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

Name (Printed/typed)

Cherry Hlava

Title

Regulatory Analyst

Signature

Date

7/27/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Pet. Eng

Date

8/4/05

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.

HOLD C104 FOR Directional Survey

NMOCD

BP AMERICA PRODUCTION COMPANY

DRILLING AND COMPLETION PROGRAM

11/24/2004 (Revised 07/19/2005)

Lease:	Barnes LS	Well Name & No.	Barnes LS #7N	Field:	Blanco Mesaverde/Basin Dakota
County:	San Juan, New Mexico	Surface Location:	23-32N-11W : 810' FSL, 745' FWL		
Minerals:	State	Surface:	Lat: 36.9653821 Long: -107.9645837		
Rig :	Aztec 184	BH Location:	23-32N-11W: 730 FSL x 1585 FWL; Lat. 36.9652035 Long. -107.9617095		
OBJECTIVE:	Drill 275' below top of the Two Wells member of Dakota, set 4-1/2" production casing. Stimulate DK, MF, and PL intervals.				

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GL:	6,362	Estimated KB:	6,376
Rotary	0 - TD	Marker		SUBSEA	TVD
LOG PROGRAM					APPROX. MD
Type	Depth Interval	Ojo Alamo		5,083'	1,293'
Single Run		Kirtland		5,008'	1,368'
		Fruitland	*	3,902'	2,474'
		Fruitland Coal	*	3,661'	2,715'
		Pictured Cliffs	*	3,269'	3,107'
		Lewis	*	3,080'	3,296'
Cased Hole	TD to 7" shoe.	Cliff House	#	1,750'	4,626'
TDT- CBL		Menefee	#	1,355'	5,021'
	Identify 4 1/2" cement top	Point Lookout	#	1,003'	5,373'
REMARKS: - Please report any flares (magnitude & duration).		Mancos		646'	5,730'
		Greenhorn Lime		-1,062'	7,438'
		Graneros (Bent marker)		-1,115'	7,491'
		Two Wells (DKOT)	#	-1,186'	7,562'
		Paguate	#	-1,256'	7,632'
		Upper Cubero	#	-1,287'	7,663'
		Lower Cubero	#	-1,319'	7,695'
		Encinal Canyon	#	-1,350'	7,726'
		TOTAL DEPTH:		-1,461'	7,837'
		# Probable completion interval			# Possible Pay

SPECIAL TESTS:		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE	Post fracture stimulation and clean-up, set pressure bomb within DKOT interval for extended build-up. Retrieve when ready for production.	FREQUENCY	DEPTH	FREQUENCY	DEPTH
		none	3,507' to TD	Geolograph	0 - TD
REMARKS:					

MUD PROGRAM:					
Interval	TypeMud	#/gal	Vis, sec/qt	/30 min	Other Specification
200'	Spud	8.8 - 9.0	Sufficient to clean hole.		
3,507'	Water/LSND	8.4 - 9.0		<9	Sweep hole while whilst water drilling, LCM onsite
7,952'	Air	1	1000 cfm for bit		Volume sufficient to maintain a stable and clean wellbore

CASING PROGRAM:							
CasingString	Depth	Size	Casing Size	Grade, Thread	Weight	Landing Point	Cement
Surface/Conductor	200'	13 1/2"	9-5/8"	H-40 ST&C	32#		cmt to surface
Intermediate 1	3,507'	8-3/4"	7"	J/K-55 ST&C	20#	100' below LWIS	cmt to surface
Production	7,952'	6-1/4"	4-1/2"	P-110	11.6#	MNCS	150' inside Intermediate - TOC survey required

CORING PROGRAM:	
None	

COMPLETION PROGRAM:	
Rigless, 2-3 Stage Limited Entry Hydraulic Frac, FMC Unihead	

GENERAL REMARKS:	
Notify BLM/NMOCDD 24 hours prior to Spud, BOP testing, and Casing and Cementing.	

BOP Pressure Testing Requirements			
Formation	Depth	Anticipated bottom hole pressure	Max anticipated surface pressure**
Cliffhouse	4,626'	500	0
Point Lookout	5,373'	600	0
Dakota	7,562'	2600	936.36
Requested BOP Pressure Test Exception = 1500 psi		** Note: Determined using the following formula: ABHP - (.22*TVD) = ASP	

Form 46 Reviewed by:	Logging program reviewed by:		DATE:	APPROVED:	DATE:
PREPARED BY:	APPROVED:		DATE:	APPROVED:	DATE:
HGJ	JMP/GGZ		24/2004 (Revised 07/19/20)		
Form 46 7-84bw	For Drilling Dept.			For Production Dept.	

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-32828		Pool Code 71599; 72319		Pool Name Basin Dakota; Blanco Mesaverde	
Property Code 000300	Property Name Barnes LS			Well Number # 7N	
GORID No 000778	Operator Name BP AMERICA PRODUCTION COMPANY			Elevation 6362	

10 Surface Location

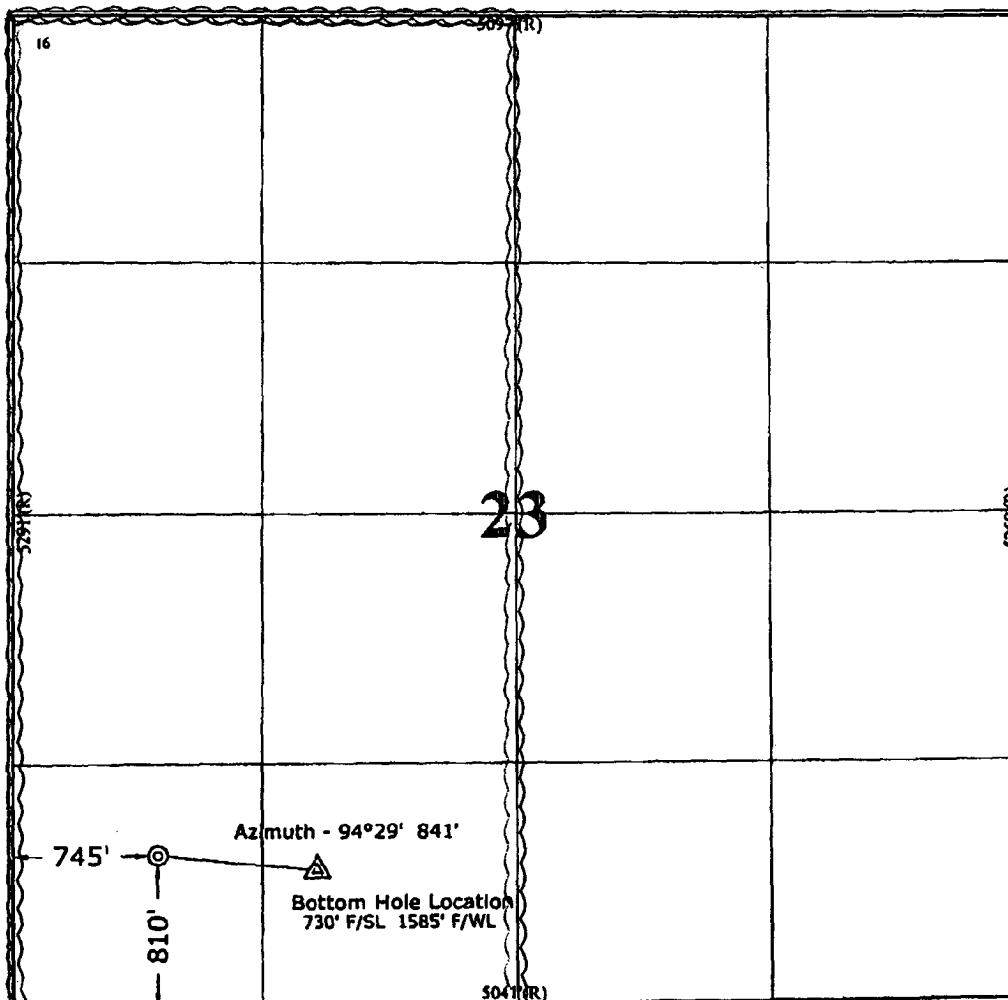
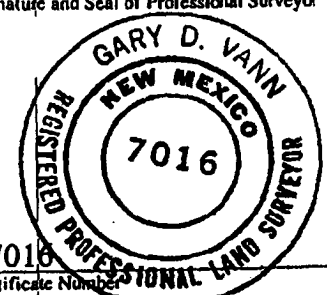
UL or Lot No. M	Section 23	Township 32 N	Range 11 W	Lot Idn	Feet from the 810	North/South line SOUTH	Feet from the 745	East/West line WEST	County SAN JUAN
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11 Bottom Hole Location If Different From Surface

UL or lot no. N	Section 23	Township 32 N	Range 11 W	Lot Idn	Feet from the 730	North/South line SOUTH	Feet from the 1585	East/West line WEST	County SAN JUAN
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12 Dedicated Acres	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

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <u>Cherry Hlava</u> Printed Name: <u>Cherry Hlava</u> Title: <u>Regulatory Analyst</u> Date: <u>7-27-05</u>
	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. Revised July 27, 2005 <u>September 28, 2004</u> Date of Survey Signature and Seal of Professional Surveyor  7016 Certificate Number

Cementing Program

Revision

Well Name: Barnes LS #7N
 Location: 23-32N-11W: 810' FSL, 745' FWL
 County: San Juan
 State: New Mexico

Well Flac
 Formation: Blanco Mesaverde/Basin Dakota
 KB Elev (est) 6376
 GL Elev. (est) 6362

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)
Surface	200	13.5	9.625	ST&C	Surface	NA	
Intermediate	3507	8.75	7	ST&C	Surface	NA	
Production -	7952	6.25	4.5	ST&C	3407	NA	

Casing Properties:

(No Safety Factor Included)								
Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface		9.625	32 H-40	3370		1400	254	0.0787
Intermediate		7	20 K-55	3740		2270	234	0.0405
Production -		4.5	11.6 J-55	5350		4960	154	0.0155

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight
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0 - SCP	Water/Spud	8.6-9.2
SCP - ICP	Water/LSND	8.6-9.2
ICP - ICP2	Gas/Air Mist	NA
ICP2 - TD	LSND	8.6 - 9.2

Recommended Mud Properties Prio Cementing:

PV <20
 YP <10
 Fluid Loss <15

Cementing Program:

	Surface	Intermediate	Production
Excess %, Lead	100	75	40
Excess %, Tail	NA	0	40
BHST (est deg. F)	75	120	183
Special Instructions	1,6,7	1,6,8	2,4,6

1. Do not wash pumps and lines.
2. Wash pumps and lines.
3. Reverse out
4. Run Blend Test on Cement
5. Record Rate, Pressure, and Density on 3.5" disk
6. Confirm densitometer with pressurized mud scales
7. 1" cement to surface if cement is not circulated.
8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

Notes:

*Do not wash up on top of plug. Wash lines before displacing production cement job to minimize drillout.

Surface:

Preflush	20 bbl.	Fresh Water	
Slurry 1	154 sx Class C Cement		195 cuft
TOC@Surface	+ 2% CaCl2 (accelerator)		
			0.4887 cuft/ft OH

Slurry Properties:

Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1 15.2	1.27	5.8

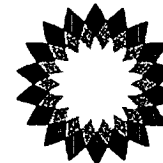
Casing Equipment:

- 9-5/8", 8R, ST&C
- 1 Guide Shoe
- 1 Top Wooden Plug
- 1 Autofill insert float valve
- Centralizers, 1 per joint except top joint
- 1 Stop Ring
- 1 Thread Lock Compound



Scientific Drilling
Directional Drilling Operations

Field: SAN JUAN, New Mexico
Site: SEC 23-T32N-11W
Well: Barnes LS #7N
Wellpath: OH
Plan: Plan #1



bp

SECTION DETAILS

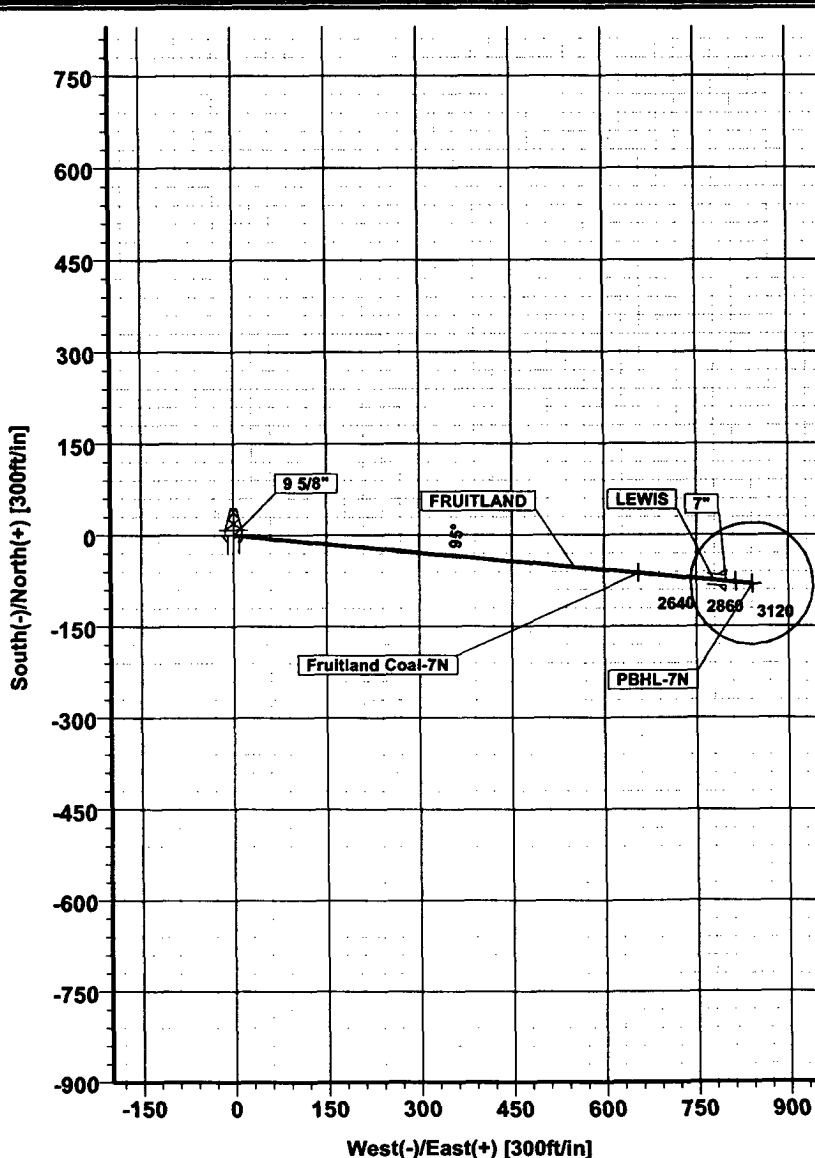
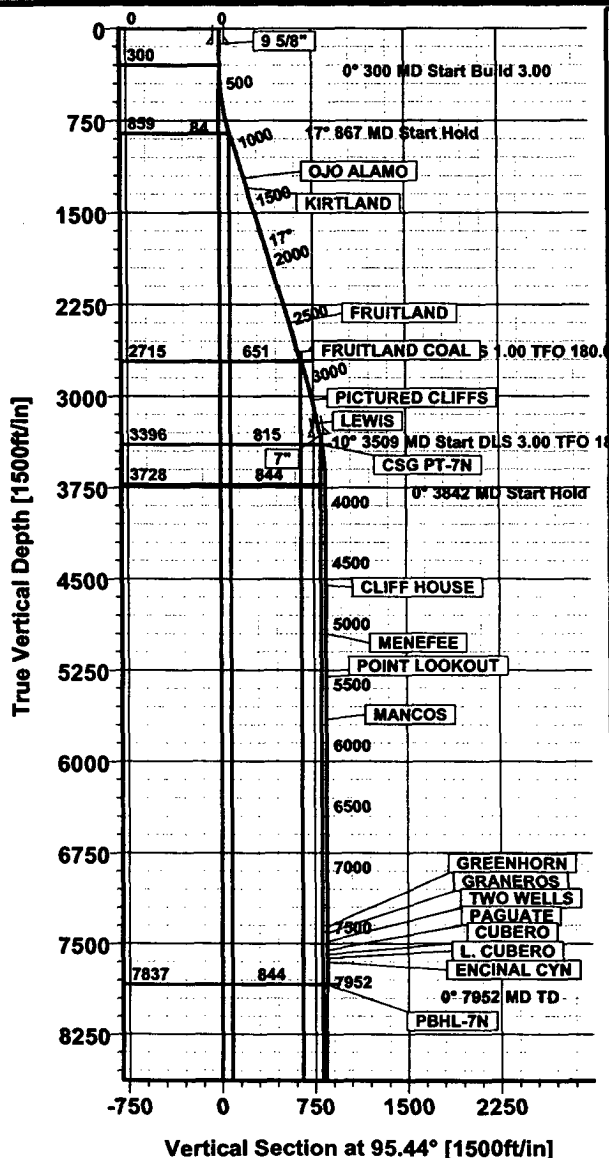
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	866.99	17.01	95.44	858.70	-7.92	83.17	3.00	95.44	83.55	
4	2808.21	17.01	95.44	2715.00	-61.76	648.49	0.00	0.00	651.42	Fruitland Coal-7N
5	3509.02	10.00	95.44	3396.00	-77.26	811.32	1.00	180.00	814.99	CSG PT-7N
6	3842.41	0.00	0.00	3727.70	-80.02	840.21	3.00	180.00	844.01	
7	7951.71	0.00	0.00	7837.00	-80.02	840.21	0.00	0.00	844.01	PBHL-7N

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Fruitland Coal-7N	2715.00	-62.44	655.65	2170697.869	2685409.108	Point
CSG PT-7N	3396.00	-77.26	813.32	2170683.050	2685566.765	Point
PBHL-7N	7837.00	-80.00	840.00	2170680.311	2685593.443	Circle (Radius: 100)

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Barnes LS #7N	-891.68	-3424.89	2170760.304	2684753.511	36°57'55.375N	107°57'52.501W	N/A





Scientific Drilling Planning Report



Company: BP	Date: 6/27/2005	Time: 15:47:14	Page: 6
Field: SAN JUAN, New Mexico	Co-ordinate(NE) Reference: Well: Barnes LS #7N, Grid North		
Site: SEC 23-T32N-11W	Vertical (TVD) Reference: AGL=6362+KB=14 6376.0		
Well: Barnes LS #7N	Section (VS) Reference: Well (0.00N,0.00E,95.44Azi)		
Wellpath: OH	Plan: Plan #1		

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1244.82	1220.00	OJO ALAMO		0.00	0.00
1323.25	1295.00	KIRTLAND		0.00	0.00
2479.85	2401.00	FRUITLAND		0.00	0.00
2731.87	2642.00	FRUITLAND COAL		0.00	0.00
3139.07	3034.00	PICTURED CLIFFS		0.00	0.00
3332.84	3223.00	LEWIS		0.00	0.00
4667.71	4553.00	CLIFF HOUSE		0.00	0.00
5062.71	4948.00	MENEFEE		0.00	0.00
5414.71	5300.00	POINT LOOKOUT		0.00	0.00
5771.71	5657.00	MANCOS		0.00	0.00
7479.71	7365.00	GREENHORN		0.00	0.00
7532.71	7418.00	GRANEROS		0.00	0.00
7603.71	7489.00	TWO WELLS		0.00	0.00
7673.71	7559.00	PAGUATE		0.00	0.00
7704.71	7590.00	CUBERO		0.00	0.00
7736.71	7622.00	L. CUBERO		0.00	0.00
7767.71	7653.00	ENCINAL CYN		0.00	0.00