

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.
NMSF080005

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
BP AMERICA PRODUCTION CO

Contact: MARY CORLEY
E-Mail: corleyml@bp.com

8. Well Name and No.
FLORANCE U 6M

9. API Well No.
30-045-30407-00-X1

3a. Address
P. O. BOX 3092
HOUSTON, TX 77253

3b. Phone No. (include area code)
Ph: 281.366.4491
Fx: 281.366.0700

10. Field and Pool, or Exploratory
BASIN DAKOTA

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

Sec 23 T30N R9W NWSE Lot O 1930FSL 2400FEL
36.47700 N Lat, 107.44900 W Lon

11. County or Parish, and State

SAN JUAN COUNTY, NM

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

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

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 shall 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 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.)

BP America respectfully request the following amendments to our drilling program for the subject well:

Amend from a straight hole completion to a directionally controlled completion as follows:

Surface Location - No Change
Bottom Hole Location - 1740' FSL & 2015' FEL
Amend Total Depth from 7419' to 7313' TVD & 7346 MD

Attached in support of our application are amending drilling and completion program, cementing report, directional plot, directional profile, and Form C-102 with BHL indicated.

- A minimum of 200' of surface casing is required for this well.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #14577 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO, sent to the Farmington Committed to AFMSS for processing by Adrienne Garcia on 10/01/2002 (03AXG0010SE)	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 09/26/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By	Title	OCT -7 Date
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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

NMOCD

Cementing Program

Well Name: Florance U 6M Location: 23-30N-9W, 1930 FSL, 2400 FEL County: San Juan State: New Mexico	Field: Blanco Mesaverde / Basin Dakota API No. Well Flac Formation: Dakota MesaVerde KB Elev (est) 5997 GL Elev. (est) 5983
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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	120 200	12.25	9.625	ST&C	Surface	NA	
Intermediate	3023	8.75	7	LT&C	Surface	NA	
Production -	7346	6.25	4.5	?	Surface	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	8.845
Intermediate		7	20 K-55	3740	2270	234	0.0405	6.456
Production -		4.5	11.6 J-55	5350	4960	154	0.0155	3.875

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Prio Cementing:
			PV <20 YP <10 Fluid Los: <15
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	

Cementing Program:

	Surface	Intermediate	Production
Excess %, Bit	100%	80	10
Excess %, Caliper	NA	NA	30
BHST (est deg. F)	60	120	160
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate
Rate, Max (bpm)	7	4	2
Rate Recommended (bpm)	6	4	2
Pressure, Max (psi)	200	2000	2000
Shoe Joint	40	80	40
Batch Mix	NA	NA	NA
Circulating prior cmtng (hr)	0.5	1.5	2
Time Between Stages, (hr)	NA	NA	NA
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.
- *** Run TMD cased hole logs to identify pay; Perforating and CH logs can be run rigless.

Surface:

Preflush	20 bbl.	FreshWater
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Cementing Program

Slurry 1 TOC@Surface	65 sx Class G Cement + 2% CaCl ₂ (accelerator) 0.25 #/sk Cellophane Flake (lost circulation additive) 0.1% D46 antifoam	120+ 75 cuft 0.3132 cuft/ft OH 100 % excess
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Slurry Properties:	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1	15.8	1.16	4.95

Casing Equipment:

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

Intermediate:

Fresh Water	20 bbl	fresh water
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Lead Slurry 1 TOC@Surface	231 sx Class "G" Cement + 3% D79 extender + 2% S1 Calcium Chloride +1/4 #/sk. Cellophane Flake + 0.1% D46 antifoam'	671 cuft
Tail Slurry 2 500 ft fill	107 sx 50/50 Class "G"/Poz + 2% gel (extender) 0.1% D46 antifoam +1/4 #/sk. Cellophane Flake + 2% CaCl ₂ (accelerator)	135 cuft 0.1503 cuft/ft OH 0.1746 cuft/ft csg ann 80 % excess

Slurry Properties:	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1	11.4	2.9	17.77
Slurry 2	13.5	1.27	5.72

Casing Equipment:

- 7", 8R, ST&C
- 1 Float Shoe (autofill with minimal LCM in mud)
- 1 Float Collar (autofill with minimal LCM in mud)
- 1 Stop Ring
- 10 Centralizers (one in middle of first joint, then every third collar)
- 2 Fluidmaster vane centralizers @ base of Ojo
- 7 Centralizers one every 4th joint from Ojo to base of surface casing
- 1 Top Rubber Plug
- 1 Thread Lock Compound

Production:

Fresh Water	10 bbl	CW100
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Lead Slurry 1 TOC@Surface	134 LiteCrete D961 / D124 / D154 + 0.03 gps D47 antifoam + 0.5% D112 fluid loss	287 cuft
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Cementing Program

+ 0.11% D65 TIC

Tail
Slurry 2

1777 ft fill

139 sx 50/50 Class "G"/Poz
+ 5% D20 gel (extender)
+ 0.1% D46 antifoam
+ 1/4 #/sk. Cellophane Flake
+ 0.25% D167 Fluid Loss

201 cuft
+ 5 #/sk D24 gilsonite
+ 0.15% D65 TIC
+ 0.1% D800 retarder

Slurry Properties:

Density
(lb/gal)

Yield
(ft³/sk)

Water
(gal/sk)

0.1026 cuft/ft OH
10 % excess

0.1169 cuft/ft csg ann

Slurry 1

9.5

2.14

6.38

Slurry 2

13

1.44

6.5

Top of Mancos

5069

Casing Equipment:

4-1/2", 8R, ST&C

1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)
1 Stop Ring
39 Centralizers (every third joint)

1 Top Rubber Plug
1 Thread Lock Compound

Note:

1. The job should be pumped at 2-3 bpm max rate. Do not exceed 3 bpm on displacement
2. Wash pump and lines before displacement. Slow to 1 bpm for the last 30 bbl of displacement.

**BP AMERICA PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM**

Prospect Name: Florance U
Lease: FLORANCE U
County: San Juan
State: New Mexico
Date: September 24, 2002

Well No: 6M
Surface Location: 23-30N-9W, 1930 FSL, 2400 FEL
Field: Blanco Mesaverde/Basin Dakota
Bottom Location: 23-30N-9W, 1740 FSL, 2015 FEL

OBJECTIVE: Drill 50' below the base of the Lower Cubero, set 4 1/2" Production Casing, Stimulate CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER																																																									
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 5983		Estimated KB: 5997																																																							
Rotary	0 - TD	<table border="1"> <thead> <tr> <th>MARKER</th> <th>TVD</th> <th>MEAS. DEPTH</th> </tr> </thead> <tbody> <tr><td>Ojo Alamo</td><td>1499</td><td>1512</td></tr> <tr><td>Kirtland</td><td>1651</td><td>1666</td></tr> <tr><td>Fruitland</td><td>2118</td><td>2139</td></tr> <tr><td>Fruitland Coal</td><td>*</td><td>2326</td></tr> <tr><td>Pictured Cliffs</td><td>*</td><td>2746</td></tr> <tr><td>Lewis</td><td>#</td><td>2921</td></tr> <tr><td>Cliffhouse</td><td>#</td><td>4287</td></tr> <tr><td>Menefee</td><td>#</td><td>4573</td></tr> <tr><td>Point Lookout</td><td>#</td><td>4983</td></tr> <tr><td>Mancos</td><td></td><td>5327</td></tr> <tr><td>Greenhorn</td><td></td><td>7013</td></tr> <tr><td>Graneros</td><td></td><td>7073</td></tr> <tr><td>Two Wells</td><td>#</td><td>7112</td></tr> <tr><td>Paguate</td><td>#</td><td>7223</td></tr> <tr><td>Cubero (Upper)</td><td>#</td><td>7257</td></tr> <tr><td>Cubero (Lower)</td><td>*</td><td>7296</td></tr> <tr><td>TOTAL DEPTH</td><td></td><td>7346</td></tr> </tbody> </table>				MARKER	TVD	MEAS. DEPTH	Ojo Alamo	1499	1512	Kirtland	1651	1666	Fruitland	2118	2139	Fruitland Coal	*	2326	Pictured Cliffs	*	2746	Lewis	#	2921	Cliffhouse	#	4287	Menefee	#	4573	Point Lookout	#	4983	Mancos		5327	Greenhorn		7013	Graneros		7073	Two Wells	#	7112	Paguate	#	7223	Cubero (Upper)	#	7257	Cubero (Lower)	*	7296	TOTAL DEPTH		7346
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CBL	Identify 4 1/2" cement top																																																										
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Please report any flares (magnitude & duration).																																																											
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME																																																							
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		None	Production hole	Geolograph	0-TD																																																						
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MUD PROGRAM:						
Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification	
0 - 100 200	Spud	8.6-9.2				
20 - 3023 (1)	Water/LSND	8.6-9.2		<6		
3023 - 7346	Gas/Air/Mist	Volume sufficient to maintain a stable and clean wellbore				

REMARKS:
 (1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency..

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	20 100	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate 1	3023	7 "	J/K-55 ST&C	20#	8.75"	1,2
Production (liner)	7346	4.5"	J-55	11.6#	6.25"	3

REMARKS:
 (1) Circulate Cement to Surface
 (2) Set casing 100' into the Lewis Shale
 (3) Bring cement 100' above 7" shoe

CORING PROGRAM:
 None

COMPLETION PROGRAM:
 Rigless, 4-6 Stage Limited Entry Hydraulic Frac

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

Form 46 Reviewed by: _____ Logging program reviewed by: N/A

PREPARED BY: KAS/MNP	APPROVED:	DATE: September 24, 2002 Version 3.0
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BOP Test Pressure

BP America Production Company BOP Pressure Testing Requirements

Well Name: Florance U
County: San Juan

6M
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1499		
Fruitland Coal	2303		
PC	2718		
Lewis Shale	2891		
Cliff House	4254	500	0
Menefee Shale	4540		
Point Lookout	4950	600	0
Mancos	5294		
Dakota	7224	2600	1485

** Note: Determined using the following formula: $ABHP - (.22 \times TVD) = ASP$

Requested BOP Pressure Test Exception: 1500 psi

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

District II
811 South First, Artesia, NM 88210

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-26364	² Pool Code 72319 & 71599	³ Pool Name Blanco Mesaverde & Basin Dakota
⁴ Property Code 000553	⁵ Property Name Florance U	⁶ Well Number 6M
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 5983'

¹⁰ Surface Location

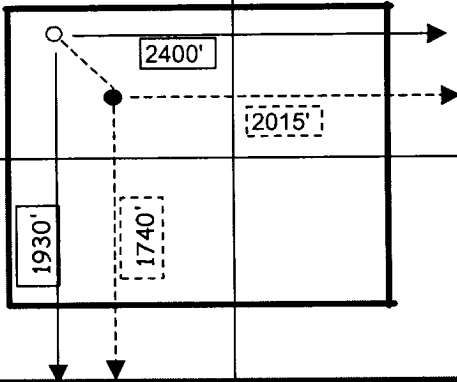
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit J	23	30N	09W		1930'	South	2400'	East	San Juan

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
Unit J	23	30N	09W		1740'	South	2015'	East	San Juan
¹² Dedicated Acres 320		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

				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> Mary
				Signature Mary Corley
				Printed Name Sr. Regulatory Analyst
				Title 09/26/2002
				Date
				¹⁸ SURVEYOR CERTIFICATION <i>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.</i> 11/24/2000
				Date of Survey
				Signature and Seal of Professional Surveyor: Gary D Vann 7016
				Certificate Number



Proposed Well Profile

Report Date: September 23, 2002		Survey / DLS Computation Method: Minimum Curvature / Lubinski	
Client: BP America Inc.		Vertical Section Azimuth: 116.270°	
Field: NM, San Juan County (NAD 83 WZ)		Vertical Section Origin: N 0.000 ft, E 0.000 ft	
Structure / Slot: BP 23 30N 9W (Florance U 6M) No Certified Plat / Florance U 6M		TVD Reference Datum: RKB	
Well: Florance U 6M		TVD Reference Elevation: 5997.0 ft relative to MSL	
Borehole: Original Hole		Sea Bed / Ground Level Elevation:	
UWI / API#:		Magnetic Declination:	
Survey Name / Date: Rev0 jok 23-Sep-02 / September 23, 2002		Total Field Strength:	
Tort / AHD / DDI / ERD ratio: 18.218° / 429.33 ft / 3.895 / 0.059		Magnetic Dip:	
Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet		Declination Date:	
Location Lat / Long:		Magnetic Declination Model:	
Location Grid N/E Y/X:		North Reference: True North	
Grid Convergence Angle:		Total Corr Mag North -> True North:	
Grid Scale Factor:		Local Coordinates Referenced To: Well Head	

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/S (ft)	E/W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
Surface	0.00	0.00	116.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	116.3MTF
9 5/8" Casing Point	120.00	0.00	116.27	120.00	0.00	0.00	0.00	0.00	0.00	0.00	116.3MTF
KOP, Begin 2.0°/100' Build	200.00	0.00	116.27	200.00	0.00	0.00	0.00	0.00	0.00	0.00	116.3MTF
	300.00	2.00	116.27	299.98	1.75	-0.77	1.56	1.75	116.27	2.00	116.3MTF
	400.00	4.00	116.27	399.84	6.98	-3.09	6.26	6.98	116.27	2.00	116.3MTF
	500.00	6.00	116.27	499.45	15.69	-6.95	14.07	15.69	116.27	2.00	0.0
	600.00	8.00	116.27	598.70	27.88	-12.34	25.00	27.88	116.27	2.00	0.0
Begin Tangent	655.45	9.11	116.27	653.54	36.13	-15.99	32.40	36.13	116.27	2.00	0.0
Ojo Alamo 1499 TVD	1511.71	9.11	116.27	1499.00	171.69	-75.98	153.96	171.69	116.27	0.00	0.0
Kirtland 1651 TVD	1665.66	9.11	116.27	1651.00	196.06	-86.77	175.81	196.06	116.27	0.00	0.0
	2138.62	9.11	116.27	2118.00	270.94	-119.90	242.96	270.94	116.27	0.00	0.0
Fruitland 2118 TVD	2325.98	9.11	116.27	2303.00	300.60	-133.03	269.56	300.60	116.27	0.00	0.0

Pictured Cliffs 2718 TVD	2746.28	9.11	116.27	2718.00	367.14	-162.48	329.23	367.14	116.27	0.00	0.0
Lewis 2891 TVD	2921.49	9.11	116.27	2891.00	394.88	-174.75	354.10	394.88	116.27	0.00	0.0
7" Casing Point 2991 TVD	3022.77	9.11	116.27	2991.00	410.91	-181.85	368.48	410.91	116.27	0.00	0.0
Begin Natural Drop	3025.03	9.11	116.27	2993.23	411.27	-182.01	368.80	411.27	116.27	0.00	180.0
	3100.00	6.11	116.27	3067.53	421.19	-186.40	377.70	421.19	116.27	4.00	180.0
	3200.00	2.11	116.27	3167.25	428.36	-189.57	384.13	428.36	116.27	4.00	116.3MTF
Begin Vertical	3252.76	0.00	116.27	3220.00	429.33	-190.00	385.00	429.33	116.27	4.00	116.3MTF
Cliffhouse 4254 TVD	4286.76	0.00	116.27	4254.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
Menefee 4540 TVD	4572.76	0.00	116.27	4540.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
Point Lookout 4950 TVD	4982.76	0.00	116.27	4950.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
Mancos 5294 TVD	5326.76	0.00	116.27	5294.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
	5332.76	0.00	116.27	5300.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
Greenhorn 6980 TVD	7012.76	0.00	116.27	6980.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
Graneros 7040 TVD	7072.76	0.00	116.27	7040.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
TW 7079 TVD	7111.76	0.00	116.27	7079.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
Paguate 7190 TVD	7222.76	0.00	116.27	7190.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
Cubero (Upper) 7224 TVD	7256.76	0.00	116.27	7224.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
Cubero (Lower) 7263 TVD	7295.76	0.00	116.27	7263.00	429.33	-190.00	385.00	429.33	116.27	0.00	116.3MTF
PBHL/TD 7313 TVD	7345.76	0.00	116.27	7313.00	429.33	-190.00	385.00	429.33	116.27	0.00	0.0MTF

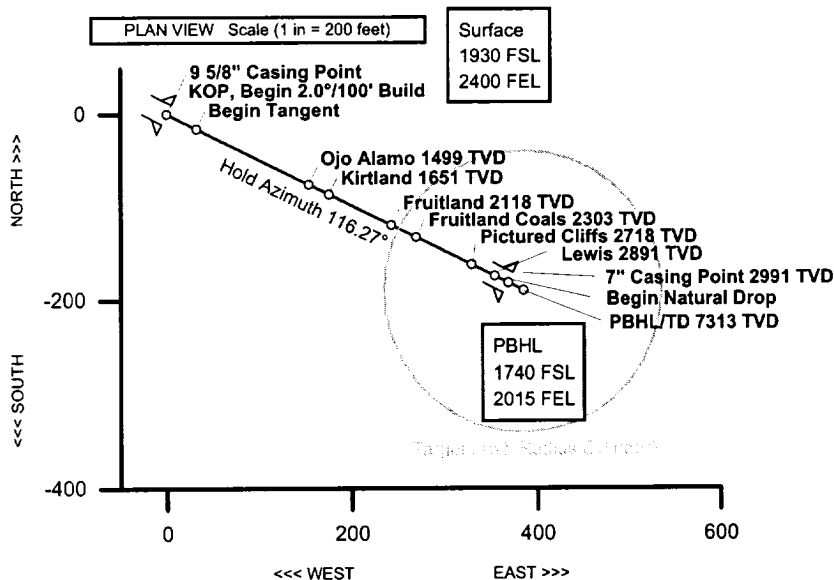
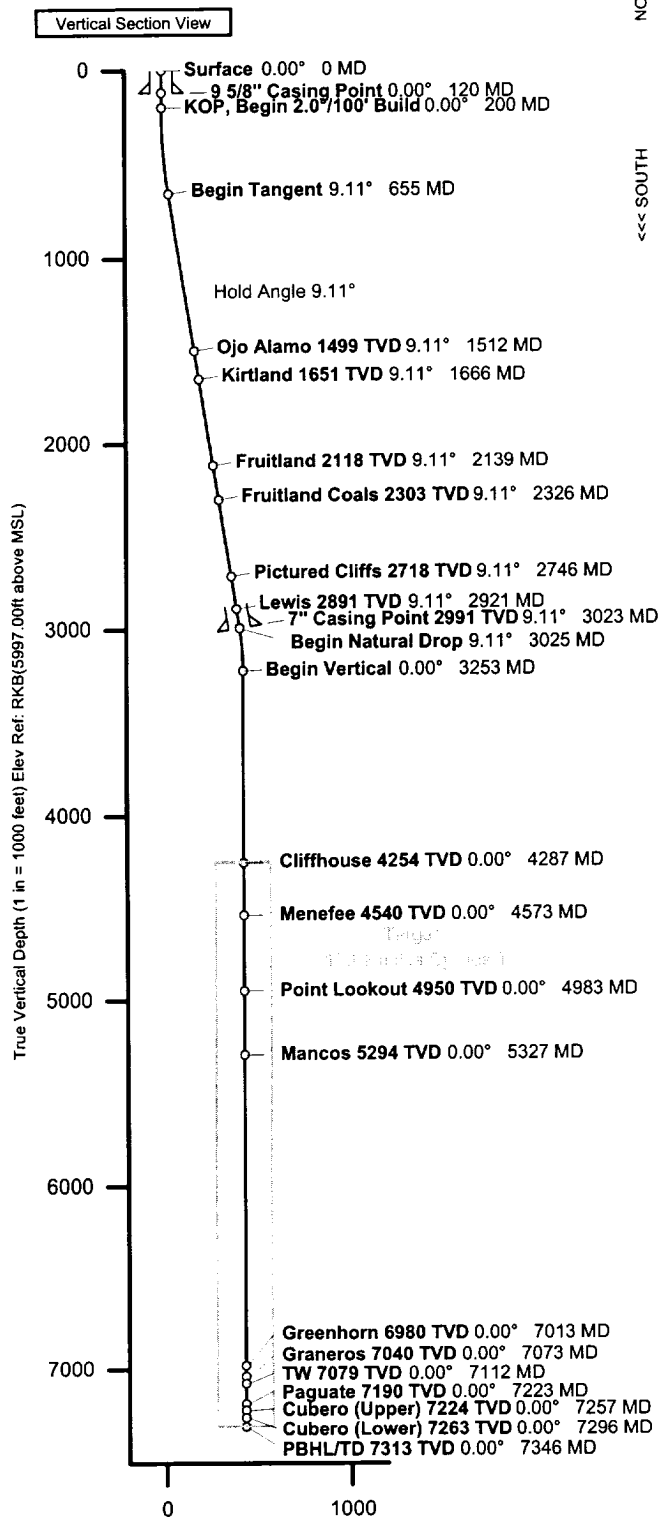
Survey Error Model: Topographic 3-D 95.00% Confidence 2.7957 sigma

Surveying Programme:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type
0.00	7345.76	Act-Sins	MWD2 (none assigned-default tool used)

Schlumberger BP America Inc.

WELL Florance U 6M	FIELD NM, San Juan County	STRUCTURE BP 23 30N 9W
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No Certified Plat

Critical Points	MD	INCL	ASIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
Surface	0.00	0.00	116.27	0.00	0.00	0.00	0.00	0.00
9 5/8" Casing Poi	120.00	0.00	116.27	120.00	0.00	0.00	0.00	0.00
KOP, Begin 2.0°/1	200.00	0.00	116.27	200.00	0.00	0.00	0.00	0.00
Begin Tangent	655.45	9.11	116.27	653.54	36.13	-15.99	32.40	2.00
Ojo Alamo 1499 TV	1511.71	9.11	116.27	1499.00	171.69	-75.98	153.96	0.00
Kirtland 1651 TVD	1665.66	9.11	116.27	1651.00	196.06	-86.77	175.81	0.00
Fruitland 2118 TV	2138.62	9.11	116.27	2118.00	270.94	-119.90	242.96	0.00
Fruitland Coals 2	2325.98	9.11	116.27	2303.00	300.60	-133.03	269.56	0.00
Pictured Cliffs 2	2746.28	9.11	116.27	2718.00	367.14	-162.48	329.23	0.00
Lewis 2891 TVD	2921.49	9.11	116.27	2891.00	394.88	-174.75	354.10	0.00
7" Casing Point 2	3022.77	9.11	116.27	2991.00	410.91	-181.85	368.48	0.00
Begin Natural Dro	3025.03	9.11	116.27	2993.23	411.27	-182.01	368.80	0.00
Begin Vertical	3252.76	0.00	116.27	3220.00	429.33	-190.00	385.00	4.00
Cliffhouse 4254 T	4286.76	0.00	116.27	4254.00	429.33	-190.00	385.00	0.00
Menefee 4540 TVD	4572.76	0.00	116.27	4540.00	429.33	-190.00	385.00	0.00
Point Lookout 495	4982.76	0.00	116.27	4950.00	429.33	-190.00	385.00	0.00
Mancos 5294 TVD	5326.76	0.00	116.27	5294.00	429.33	-190.00	385.00	0.00
Greenhorn 6980 TV	7012.76	0.00	116.27	6980.00	429.33	-190.00	385.00	0.00
Graneros 7040 TVD	7072.76	0.00	116.27	7040.00	429.33	-190.00	385.00	0.00
TW 7079 TVD	7111.76	0.00	116.27	7079.00	429.33	-190.00	385.00	0.00
Paguate 7190 TVD	7222.76	0.00	116.27	7190.00	429.33	-190.00	385.00	0.00
Cubero (Upper) 72	7256.76	0.00	116.27	7224.00	429.33	-190.00	385.00	0.00
Cubero (Lower) 72	7295.76	0.00	116.27	7263.00	429.33	-190.00	385.00	0.00
PBHLTD 7313 TVD	7345.76	0.00	116.27	7313.00	429.33	-190.00	385.00	0.00

Quality Control
 Date Drawn: 23-Sep-2002
 Drawn by: John O'Keefe
 Checked by: Allen Starkey
 Client OK: _____