Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS 2004 OCT 13

Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals.

RECEIVED

SUBMIT IN TRIPLICATE – Other instructions on reverse side

OCT 2004

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	5. Lease Serial No **NMSF 080247**
	6. If Indian, Allottee or tribe Name
	7. If Unit or CA/Agreement, Name and/or No.
	8. Well Name and No. **Florance 117 S**
2. Name of Operator **BP AMERICA PRODUCTION COMPANY**	9. API Well No. **30-045-32363**
3a. Address **P.O. BOX 3092 HOUSTON, TX 77253-3092**	3b. Phone No. *(include area code)* **281-366-4081**
	10. Field and Pool, or Exploratory Area **BASIN FRUITLAND COAL**
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* **Surface: SEC 35 T29N & R09W SESE 660' FSL 950' FEL** **Bottom Hole: Sec. 35 T29N & 09W NWSE 1338' FSL & 1818' FEL**	11. County or Parish, State **SAN JUAN, NM**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OR 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 to Original Drilling plan**
	☐ Change Plans	☐ Plug and Abandon	☐ Water Disposal	
	☐ Convert to Injection	☐ Plug Back		

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.

Original APD submitted on 5/17/04 and approved on 8/13/04. The original plan was to drill the well as a straight hole. It is now our intent to directionally drill the well to a bottom hole location of 1338' FSL & 1818' FEL. The surface location remains the same.

Attached in support of our request is amended drilling and completion program, amended cementing report, directional drilling plot and profile & amended Form C-102.

14. I hereby certify that the foregoing is true an dcorrect
Name (Printed/typed) **Cherry Hlava** Title **Regulatory Analyst**

Signature Cherry Hlava Date **10/11/2004**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Jim Lovato Title Petr. Eng Date 10/18/04

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 witin its jurisdiction.

HOLD C104 FOR Directional Survey NMOCD

BP AMERICA PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM

Prospect Name: Florance 117S
Lease:
Well No: 117S
Surface Location: Section 35P, T29N, R09W; 660' FSL, 950' FEL
BHL: 1338' FSL; 1818' FEL
County: San Juan
State: New Mexico
Field: Basin Fruitland Coal
Date: October 11, 2004

OBJECTIVE: Drill to a TD of 2586' MD set 7" casing and perf and frac the Fruitland Coal interval.

METHOD OF DRILLING

TYPE OF TOOLS	DEPTH OF DRILLING
Rotary	0 – 2586' MD

LOG PROGRAM

TYPE	DEPTH INVERAL
OPEN HOLE	
Run1: Run Platform Express (array induction, 3-detector Litho-Density, compensated neutron, caliper, microlog, SP and gamma ray). **(see Remarks section below).**	TD up to minimum charge.
Run 2: Run dipole sonic (compressional and shear delta t required for frac gradient log)	TD up to minimum charge.

REMARKS:
- Primary presentation is Bulk Density Presentation (5"=100') with <1.75 g/cc shaded as coal. High resolution pass across the Fruitland interval only. Three final prints to Dennis Hilkewich in Houston. Customer LAS file to Dennis Hilkewich in Houston – hilkewdn@bp.com

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Estimated GL: 5748 Estimated KB: 5761

MARKER	SUBSEA	TVD	MD
Ojo Alamo	4692	1069	1165
Kirtland	4581	1180	1293
Fruitland	3819	1942	2173
Fruitland Coal	3819	1942	2173
Pictured Cliffs	3610	2151	2414
TOTAL DEPTH	3461	2300	2586

SPECIAL TESTS

TYPE
None

REMARKS:

DRILL CUTTING SAMPLES		DRILLING TIME	
FREQUENCY	DEPTH	FREQUENCY	DEPTH
none	none	Geolograph	0-2586

MUD PROGRAM:

Approx. Interval			Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 120		Spud	8.6-9.2			
120	- 2586	(1)	Water/LSND	8.6-9.2		<6	

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 ~~H-40~~ J-55, 8 RND	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	120	8-5/8"	~~H-40~~, 8 RND	20.0	12-1/4"	1
Intermediate	2586	5-1/2"	J-55, 8 RND	15.5	7-7/8"	1

REMARKS:
(1) Circulate Cement to Surface

CORING PROGRAM:
None

COMPLETION PROGRAM:
Rigless, Single 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: HGJ	APPROVED:	DATE: 10/11/2004	

Form 46 12-00 MNP

BP America Production Company
BOP Pressure Testing Requirements

Well Name: Florance 117S
County: San Juan **State:** New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1069		
Kirtland	1180		
Fruitland Coal	1942	400	0
PC			
Lewis Shale			
Cliff House			
Menefee Shale			
Point Lookout			
Mancos			
Dakota			

** Note: Determined using the following formula: ABHP – (.22*TVD) = ASP

Requested BOP Pressure Test Exception: 850 psi

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

1 API Number	2 Pool Code	3 Pool Name
30-045-32363	71629	Basin Fruitland Coal

4 Property Code	5 Property Name	6 Well Number
518	Florance	# 117S

7 OGRID No.	8 Operator Name	9 Elevation
000778	BP AMERICA PRODUCTION COMPANY	5748

10 Surface Location

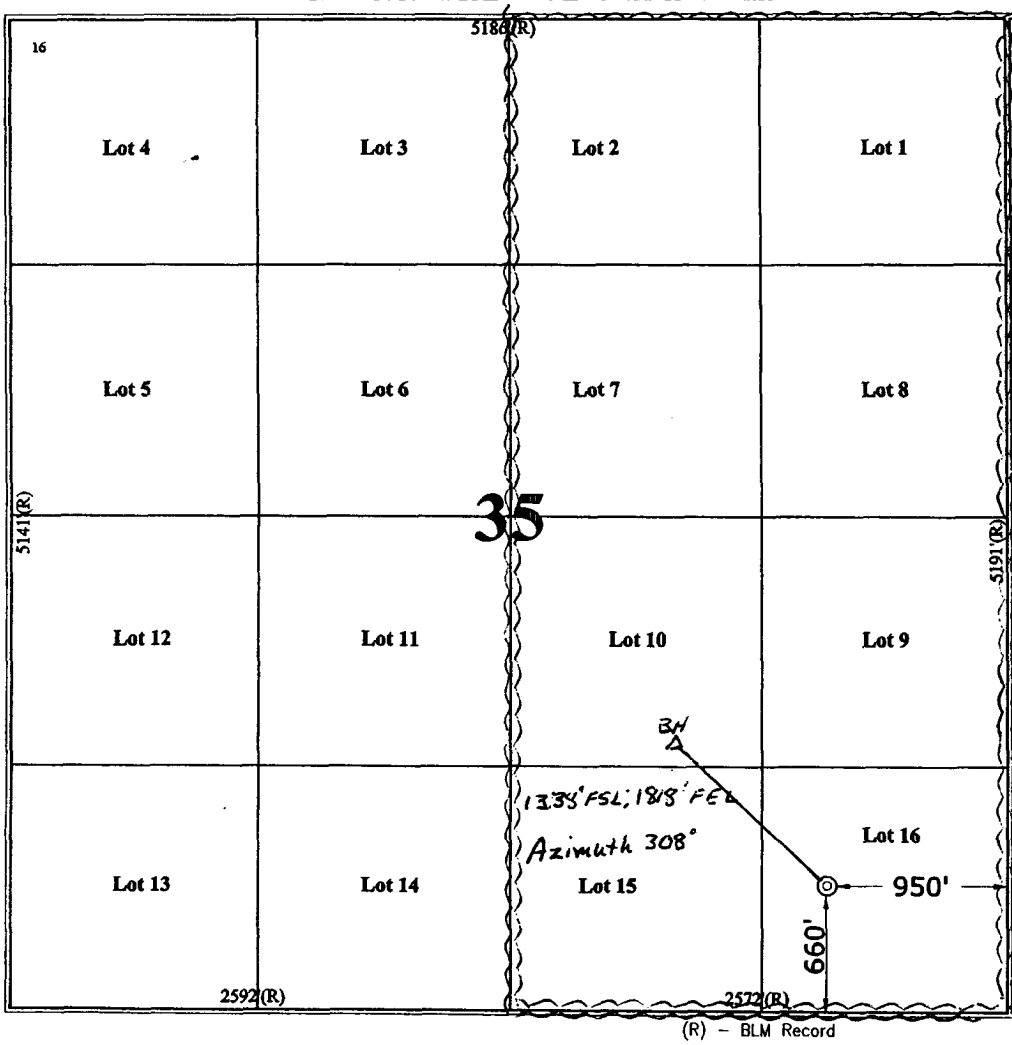
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P (Lot 16)	35	29 N	9 W		660	SOUTH	950	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	35	29N	9W		1338'	South	1818'	East	San Juan

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
306.35			

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



(R) – BLM Record

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Cherry Hlava
Signature

Cherry Hlava
Printed Name

Regulatory Analyst
Title

3-25-04
Date

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.

February 23, 2004
Date of Survey

Signature and Seal of Professional Surveyor

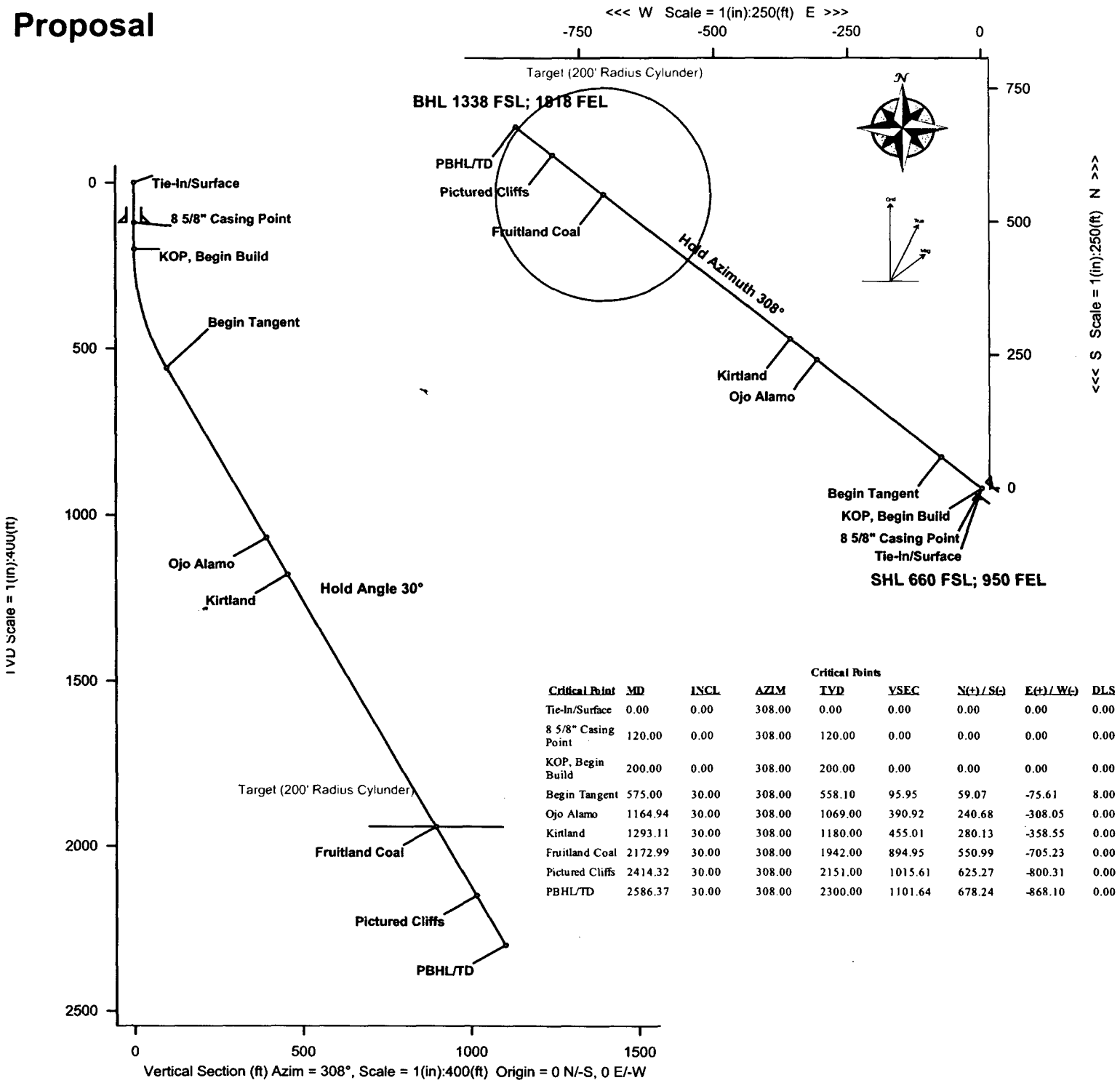
GARY D. VANN
NEW MEXICO
7016
REGISTERED PROFESSIONAL LAND SURVEYOR

7016
Certificate Number

Schlumberger **BP America Inc.** **Rev 0**

Well	Field	Structure
Florance 117S	NM, San Juan County	BP 35P-29N-9W

Proposal



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
Tie-In/Surface	0.00	0.00	308.00	0.00	0.00	0.00	0.00	0.00
8 5/8" Casing Point	120.00	0.00	308.00	120.00	0.00	0.00	0.00	0.00
KOP, Begin Build	200.00	0.00	308.00	200.00	0.00	0.00	0.00	0.00
Begin Tangent	575.00	30.00	308.00	558.10	95.95	59.07	-75.61	8.00
Ojo Alamo	1164.94	30.00	308.00	1069.00	390.92	240.68	-308.05	0.00
Kirtland	1293.11	30.00	308.00	1180.00	455.01	280.13	-358.55	0.00
Fruitland Coal	2172.99	30.00	308.00	1942.00	894.95	550.99	-705.23	0.00
Pictured Cliffs	2414.32	30.00	308.00	2151.00	1015.61	625.27	-800.31	0.00
PBHL/TD	2586.37	30.00	308.00	2300.00	1101.64	678.24	-868.10	0.00

Quality Control
Date Drawn: Wed 02:50 PM October 06, 2004
Drawn by: John O'Keefe
Checked by: Richard Sanders
Client OK:

Florance 117S R0 Proposal

Schlumberger

Report Date:	October 6, 2004	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	BP America Inc.	**Vertical Section Azimuth:**	308.000°
Field:	NM, San Juan County (NAD 83 WZ) 2004	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	BP 35P-29N-9W (Florance 117S) No Plat / Florance 117S	**TVD Reference Datum:**	RKB
Well:	Florance 117S	**TVD Reference Elevation:**	5761.0 ft relative to MSL
Borehole:	Original Hole	**Sea Bed / Ground Level Elevation:**	5748.000 ft relative to MSL
UWI/API#:		**Magnetic Declination:**	
Survey Name / Date:	Florance 117S R0 jok 05-Oct-04 / October 6, 2004	**Total Field Strength:**	
Tort / AHD / DDI / ERD ratio:	30.000° / 1101.64 ft / 4.570 / 0.479	**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:**	Grid North
Grid Convergence Angle:		**Total Corr Mag North -> Grid North:**	
Grid Scale Factor:		**Local Coordinates Referenced To:**	Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In/Surface	0.00	0.00	308.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-52.00M
8 5/8" Casing Point	*120.00*	*0.00*	*308.00*	*120.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-52.00M*
KOP, Begin 8.0°/100' Build	200.00	0.00	308.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	-52.00M
	300.00	8.00	308.00	299.68	6.97	4.29	-5.49	6.97	308.00	8.00	0.00G
	400.00	16.00	308.00	397.41	27.74	17.08	-21.86	27.74	308.00	8.00	0.00G
	500.00	24.00	308.00	491.30	61.92	38.12	-48.79	61.92	308.00	8.00	0.00G
Begin Tangent	575.00	30.00	308.00	558.10	95.95	59.07	-75.61	95.95	308.00	8.00	0.00G
Ojo Alamo	*1164.94*	*30.00*	*308.00*	*1069.00*	*390.92*	*240.68*	*-308.05*	*390.92*	*308.00*	*0.00*	*0.00G*
Kirtland	*1293.11*	*30.00*	*308.00*	*1180.00*	*455.01*	*280.13*	*-358.55*	*455.01*	*308.00*	*0.00*	*0.00G*
Fruitland Coal	*2172.99*	*30.00*	*308.00*	*1942.00*	*894.95*	*550.99*	*-705.23*	*894.95*	*308.00*	*0.00*	*0.00G*
Pictured Cliffs	*2414.32*	*30.00*	*308.00*	*2151.00*	*1015.61*	*625.27*	*-800.31*	*1015.61*	*308.00*	*0.00*	*0.00G*
PBHL/TD	2586.37	30.00	308.00	2300.00	1101.64	678.24	-868.10	1101.64	308.00	0.00	0.00G

Survey Type: Raw Proposal

Survey Error Model: **SLB ISCWSA version 21 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type
0.00	2586.37	1/100.00 ft	SLB_MWD-STD

Cementing Program

Well Name:	Florance 117S	Field:	Basin Fruitland Coal
Location:	Sec 35 - 29N - 09W, 660' FSL, 950' FEL	API No.	
County:	San Juan	Well Flac	
State:	New Mexico	Formation:	Fruitland Coal
		KB Elev (est)	5761
		GL Elev. (est)	5748

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)
Surface	120	12.25	8 5/8	8rd	Surface
Production -	2586	7.875	5 1/2	8rd	Surface

Casing Properties: (No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft)	Grade
Surface	8 5/8	20	~~H-40~~ X-42
Production -	5 1/2	15.5	J-55

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight
0 - SCP	Water/Spud	8.6-9.2
SCP - TD	Water/LSND	8.6-9.2

Recommended Mud Properties Prio Cementing:

PV	<20
YP	<10
Fluid Loss	<6

Cementing Program:

	Surface	Production
Excess %, Lead	100	40
Excess %, Tail	NA	40
BHST (est deg. F)	75	120
Special Instructions	1,6	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

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	80 sx Class C Cement		99 cuft
TOC@Surface	+ 2% CaCl2 (accelerator)		
			0.4127 cuft/ft OH

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.2	1.27	5.8

Casing Equipment:

8-5/8", 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

Cementing Program

Production:

Fresh Water		10 bbl	CW100	
Lead		230	sx Class "G" Cement	580 cuft
Slurry 1			+ 3% D79 extender	
TOC@Surface			+ 2% S1 Calcium Chloride	
			+1/4 #/sk. Cellophane Flake	
			+ 0.1% D46 antifoam'	
Tail		120	sx 50/50 Class "G"/Poz	141 cuft
Slurry 2			+ 2% gel (extender)	
	500 ft fill		0.1% D46 antifoam	0.2019 cuft/ft OH
			+1/4 #/sk. Cellophane Flake	0.2009 cuft/ft csg ann
			+ 2% CaCl2 (accelerator)	

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	11.4	2.61	17.77
Slurry 2	13.5	1.27	5.72

Casing Equipment:

5 1/2", 8R, ST&C
1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)
Centralizers as needed
1 Top Rubber Plug
1 Thread Lock Compound