

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION OF FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF - 078129-A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well Gas <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or tribe Name
2. Name of Operator BP AMERICA PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No
3a. Address P.O. BOX 3092 HOUSTON, TX 77079-2064	3b. Phone No. (include area code) 281-366-4081	8. Lease Name and Well No. Florance Gas Com J 3S
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1115' FSL & 825' FEL SESE At proposed prod. Zone		9. API Well No. 30-045-33228
14. Distance in miles and direction from nearest town or post office* 19+ MILES EAST FROM AZTEC, NM		10. Field and Pool, or Exploratory Basin Fruitland Coal
15. Distance from proposed* Location to nearest Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) 825'	16. No. of Acres in lease 320	11. Sec., T., R., M., or Blk. and survey or Area SECTION 6 T30N & R09W
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 3339' MD	12. County or Parish SAN JUAN
21. Elevations (show whether DF, KDB., RT, GL, etc.) 6511' GL	22. Approximate date work will start* 07/21/05	13. State NEW MEXICO
23. Estimated duration 3 DAYS		17. Spacing Unit dedicated to this well E/2
20. BLM/BIA Bond No. on file WY2924		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>Cherry Hlava</i>	Name (Printed/typed) Cherry Hlava	Date 07/01/2005
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Title Regulatory Analyst		
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Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) AFM	Date 9/28/05
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Title AFM	Office FFO	
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Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct Operations thereon.

Conditions of approval, if any, are attached.

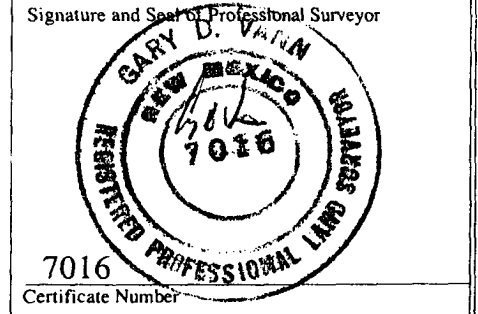
Title 18 U.S.C. Section 1001 and title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3105.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

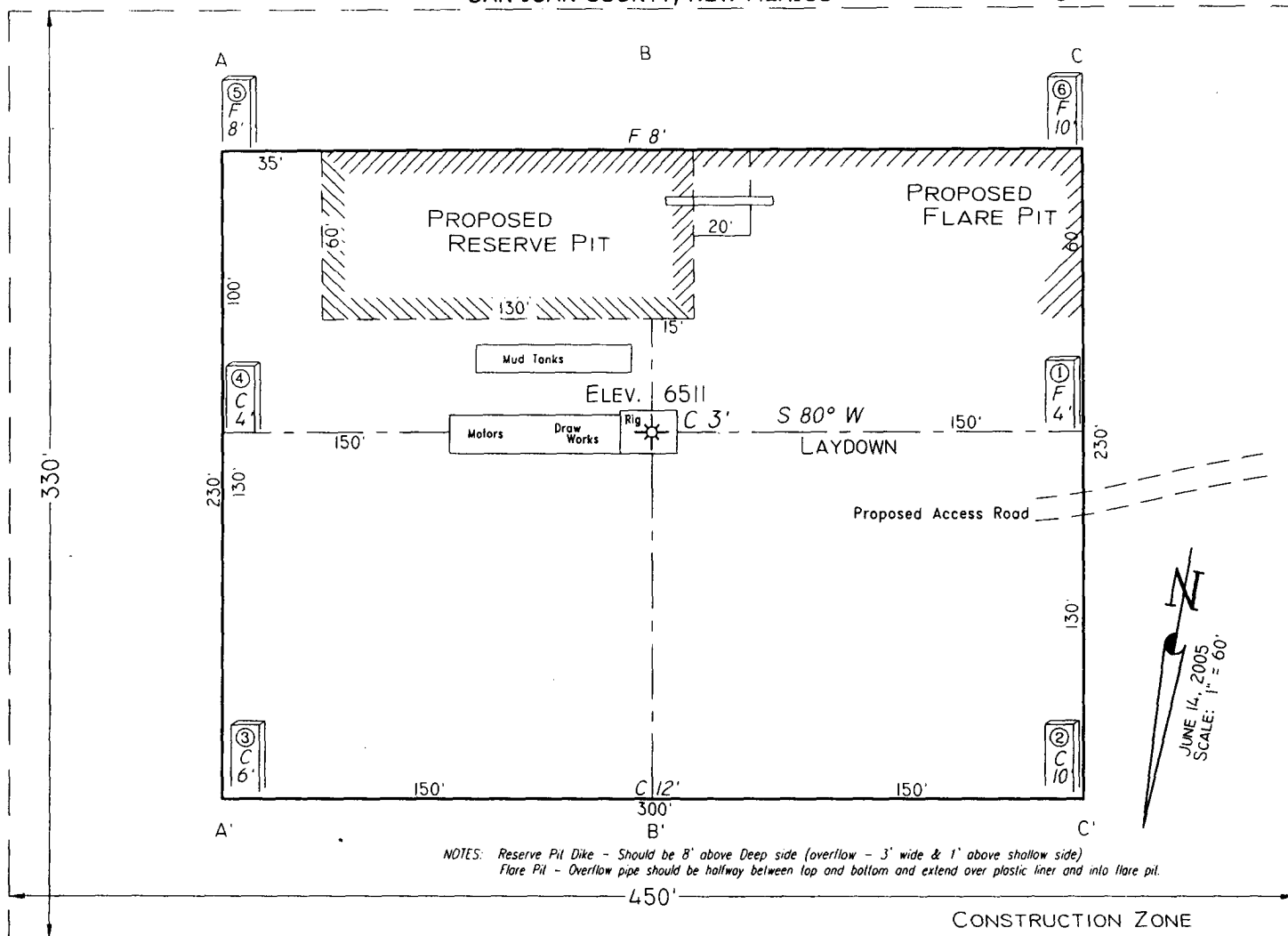
NMOCD



PAD LAYOUT PLAN & PROFILE
 BP AMERICA PRODUCTION COMPANY
 Florance Gas Com J # 3S
 1115' F/SL 825' F/EL
 SEC. 6, T30N, R9W, N.M.P.M.
 SAN JUAN COUNTY, NEW MEXICO

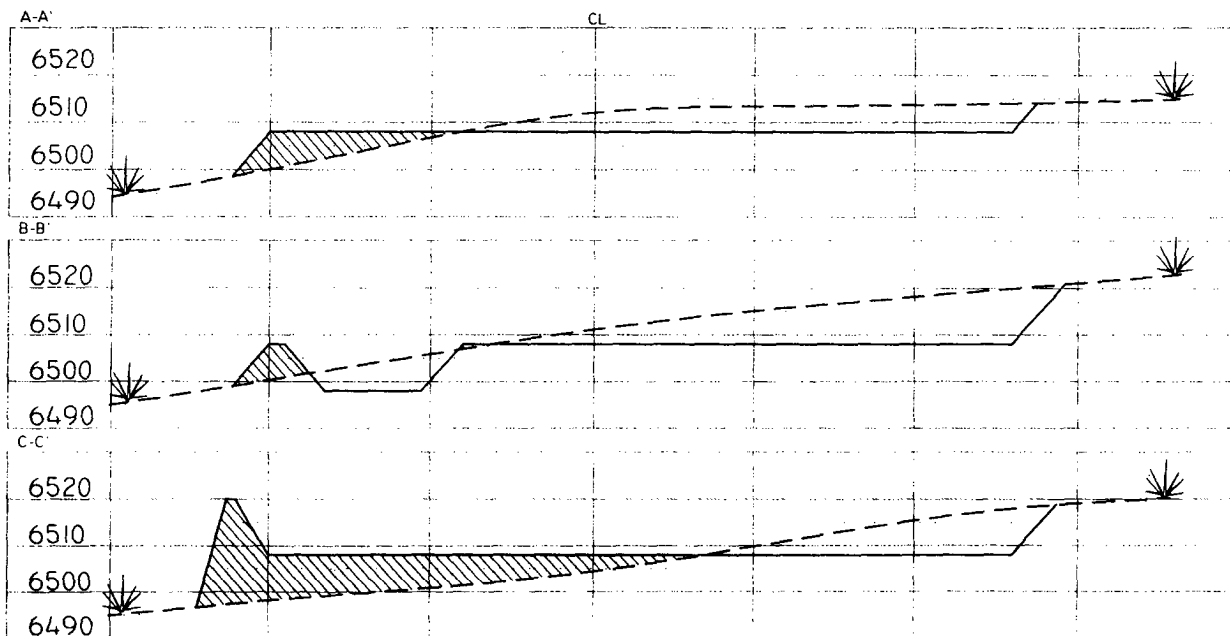
Lat: 36.8364°
 Long: 107.8156°

Lat: 36°50'11"
 Long: 107°48'56"



Area of Construction Zone - 330'x450' or 3.41 acres, more or less.

SCALE: 1"=60'-HORIZ.
 1"=40'-VERT.



NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

Cuts and fills shown are approximate - final finished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sideslopes and drainages. Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS
 P. O. Box 1306
 Farmington, NM

DRILLING AND COMPLETION PROGRAM

Lease: Florance GC J

Well Name & No. Florance GC J #3S

Field: Basin Fruitland Coal

County: San Juan, New Mexico

Surface Location: SE 1/4, S 6, T30N, R9W : 1115' FSL, 825' FEL

Minerals:

Surface: Lat: 36.8364 Long:-107.8156

Rlg :	Aztec 507
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BH Location: SE 1/4, S 6, T30N, R9W : 1115' FSL, 825' FEL

OBJECTIVE:	Drill to TD, set 5.5" casing, perf and frac the Fruitland Coal interval.
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REMARKS:

Primary Log presentation is RST Coal interpretation (5"=100') with coal shaded. Carbon-oxygen/Inelastic Capture pass across Fruitland interval only. Two final prints and customer LAS file to Dennis Hilkewich in Houston - hilkewdn@bp.com.

SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		none	none to TD	Geologist	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.		
3,339'	Water/LSND	8.4 - 9.0		<9	Sweep hole while whilst water drilling, LCM onsite

CASING PROGRAM:

CasingString	Depth	Size	Casing Size	Grade, Thread	Weight	Landing Point	Cement
Surface/Conductor	200'	12 1/4"	8-5/8"	H-40 ST&C	20#		cmt to surface
Production	3,339'	7 7/8"	5-1/2"	J-55	15.5#		cmt to surface

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, Limited Entry Hydraulic Frac

GENERAL REMARKS:

Notify BLM/NMOCD 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**
Fruitland	3,024'	500	0
Pictured Cliffs	3,239'	200	0
	-		

Requested BOP Pressure Test Exception = 1500 psi

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

Form 46 Reviewed by:

Logging program reviewed by:

PREPARED BY:

APPROVED:

DATE: _____

APPROVED:

DATE:

DNH/DDR	TT/HGJ
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30-Jun-05

Form 46 7-84bw

For Drilling Dept.

For Production Dept.

SAN JUAN BASIN
Basin Fruitland Coal Formation
Pressure Control Equipment

Background

The objective Fruitland Coal formation maximum surface pressure is anticipated to be less than 1000 psi, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 psi. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 psi system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 psi rated pressure control equipment will typically be utilized in a single ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Fruitland. No abnormal temperature, pressure, or H₂S anticipated.

Equipment Specification

Interval

BOP Equipment

Below conductor casing to total depth 11" nominal or 7 1/16", 2000 psi Single ram preventer with 3000 psi annular preventer and rotating head.

All ram type and annular preventers as well as related control equipment will be hydraulically tested to 250 psi (low pressure) and 1500 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

FEDERAL CEMENTING REQUIREMENTS

- 1. All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.**
 - 2. The hole size will be no smaller than 1 ½" larger diameter than the casing O.D. across all water zones.**
 - 3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.**
 - 4. An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.**
 - 5. Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.**
 - 6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.**
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Cementing Program

Well Name:	Florance GC J #3S	API No.	
Location:	Sec 06 - 30N - 09W, 1115' FSL, 825' FEL	Well Flac	
County:	San Juan	Formation:	Fruitland Coal
State:	New Mexico	KB Elev (est)	6522
		GL Elev. (est)	6511

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)
Surface	200	12.25	8 5/8	8rd	Surface
Production -	3339	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
Production -	5 1/2	15.5	J-55

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	<u>Recommended Mud Properties Prio Cementing:</u>	
			PV	<20
			YP	<10
			Fluid Loss	<6
0 - SCP	Water/Spud	8.6-9.2		
SCP - TD	Water/LSND	8.6-9.2		

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	130 sx Class C Cement		165 cuft
TOC@Surface	+ 2% CaCl2 (accelerator)		
			0.4127 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:	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	298 sx Class "G" Cement	777 cuft
Slurry 1	+ 3% D79 extender	
TOC@Surface	+ 2% S1 Calcium Chloride	
	+1/4 #/sk. Cellophane Flake	
	+ 0.1% D46 antifoam'	
Tail	111 sx 50/50 Class "G"/Poz	141 cuft
Slurry 2	+ 2% gel (extender)	
500 ft fill	0.1% D46 antifoam	0.2009 cuft/ft OH
	+1/4 #/sk. Cellophane Flake	0.1733 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

BP American Production Company

Well Control Equipment Schematic

