

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

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

2005 AUG 12 AM 10 53

5. Lease Serial No. **SF - 078319-A**

6. If Indian, Allottee or tribe Name

7. If Unit or CA Agreement, Name and No

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well Gas ☐ Other ☐ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.

Jacquez Gas Com G 1S

2. Name of Operator

BP AMERICA PRODUCTION COMPANY

9. API Well No.

30-045-33276

3a. Address

P.O. BOX 3092 HOUSTON, TX 77079-2064

3b. Phone No. (include area code)

281-366-4081

10. Field and Pool, or Exploratory

Basin Fruitland Coal

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface **1410' FSL & 1740' FEL NWSE**

At proposed prod. Zone

11. Sec., T., R., M., or Blk. and survey or Area

SECTION 29 T31N & R09W

14. Distance in miles and direction from nearest town or post office*

23.5 MILES N/E FROM AZTEC, NM

12. County or Parish

SAN JUAN

13. State

NEW MEXICO

15. Distance from proposed*

Location to nearest
Property or lease line, ft.

(Also to nearest drig. Ujnit line, if any) **870'**

16. No. of Acres in lease

316.60

17. Spacing Unit dedicated to this well

316.60

E2

18. Distance from proposed location*

to nearest well, drilling, completed,
applied for, on this lease, ft.

19. Proposed Depth

3180' MD

20. BLM/BIA Bond No. on file

WY2924

21. Elevations (show whether DF, KDB., RT, GL, etc.)

6266' GL

22. Approximate date work will start*

09/10/05

23. Estimated duration

3 DAYS

24. Attachments

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

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Cherry Hlava

Name (Printed/typed)

Cherry Hlava

Date

08/09/2005

Title

Regulatory Analyst

Approved by (Signature)

[Signature]
AFM

Name (Printed/Typed)

Office

FPO

Date

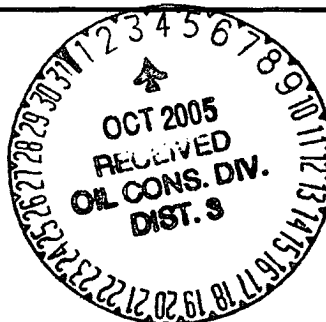
9/28/05

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)



NWOC

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 30-045-33276	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 000719	⁵ Property Name Jacquez Gas Com G	⁶ Well Number # 1S
⁷ OGRID No. 000778	⁸ Operator Name BP AMERICA PRODUCTION COMPANY	⁹ Elevation 6266

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
J (Lot 6)	29	31 N	9 W		1410	SOUTH	1740	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

¹² UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 316.60	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

¹⁶	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Cherry Hlava</i> Signature Cherry Hlava Printed Name Regulatory Analyst Title 8-9-05 Date			
Lot 1	Lot 2	Lot 3	Lot 4	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. July 12, 2005 Date of Survey Signature and Seal of Professional Surveyor  7016 Certificate Number
Lot 8	Lot 7	Lot 6	Lot 5	
Lot 9	Lot 10	Lot 11	Lot 12	

5239(R) 5240(R) 5218(R)

29

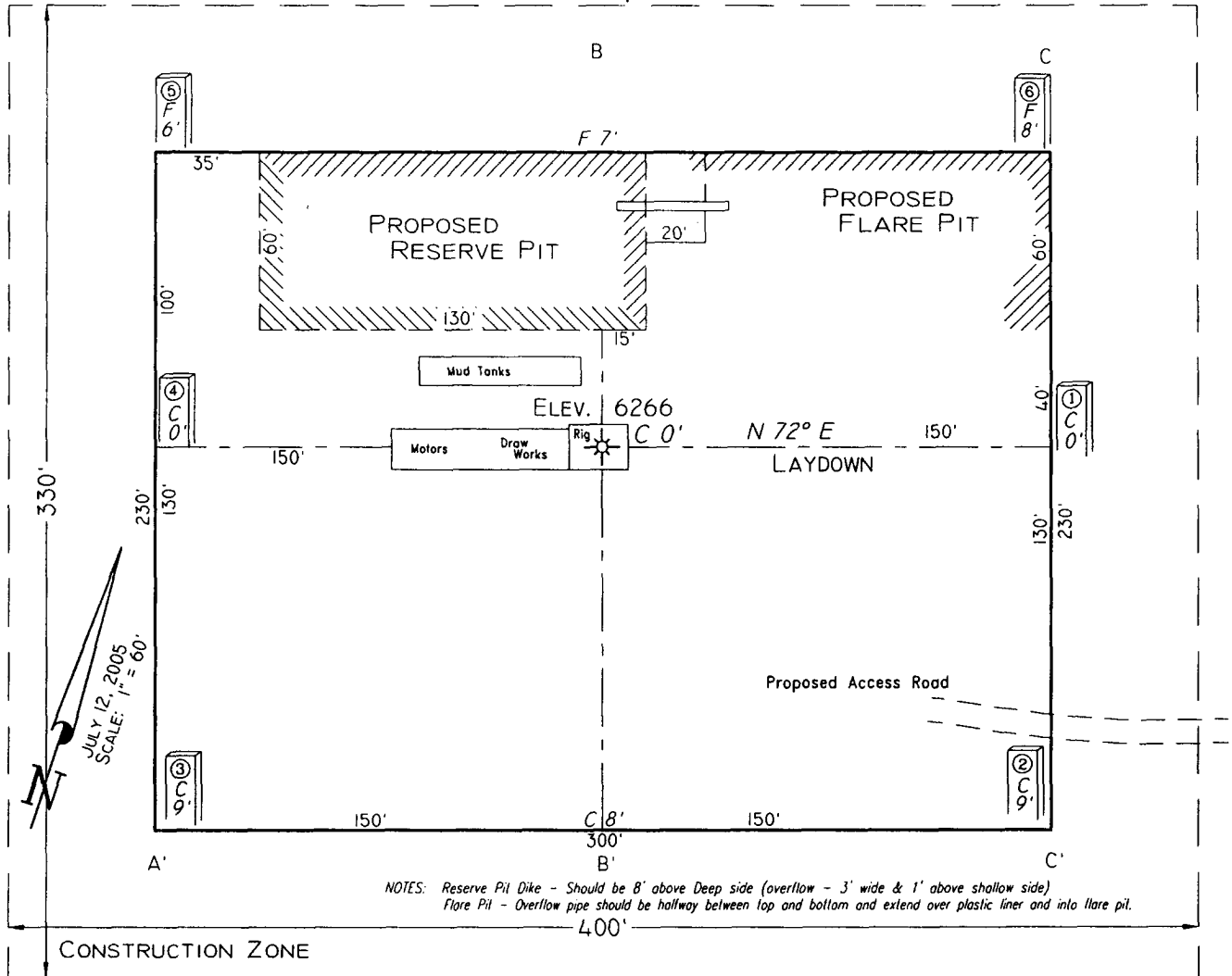
SF-078319-A

← 870' → 1740'

1410'

PAD LAYOUT PLAN & PROFILE
BP AMERICA PRODUCTION COMPANY
 Jacquez Gas Com G # 1S
 1410' F/SL 1740' F/EL
 SEC. 29, T31N, R9W, N.M.P.M.
 SAN JUAN COUNTY, NEW MEXICO

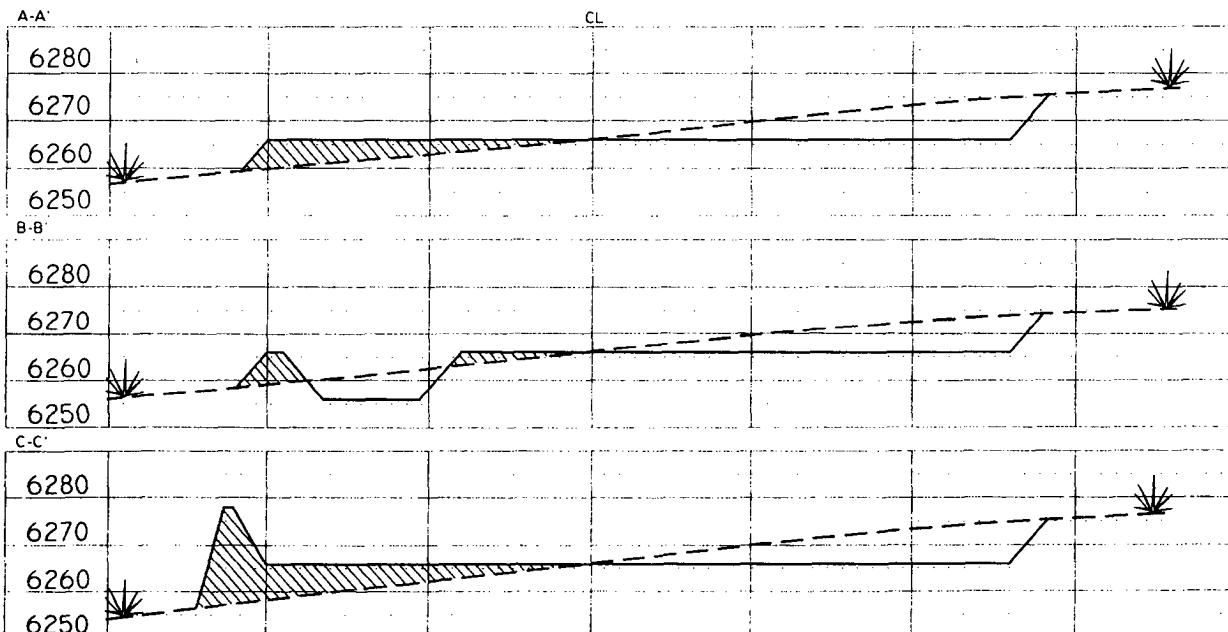
Lat: 36.8658°
 Long: 107.8006°
 Lat: 36°51'57"
 Long: 107°48'02"



NOTES: Reserve Pit Dike - Should be 8' above Deep side (overflow - 3' wide & 1' above shallow side)
 Flare Pit - Overflow pipe should be halfway between top and bottom and extend over plastic liner and into flare pit.

Area of Construction Zone - 330'x400' or 3.03 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

Field:	Basin Fruitland Coal
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Surface Location: SE 1/4, S 29, T31N, R9W : 1410' FSL, 1740' FEL

Surface: Lat: 36.8658 Long:-107.8006

BH Location: SE 1/4, S 29, T31N, R9W : 1410' FSL, 1740' 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.

TYPE

None

REMARKS:

MUD PROGRAM:

Interval	TypeMud	#/gal	Vis, sec/qt	/30 min	Other Specification
200'	Spud	8.8 - 9.0	Sufficient to clean hole.		
3,180'	Water/LSND	8.4 - 9.0		<9	Sweep hole while whilst water drilling, LCM onsite

CASING PROGRAM:[illegible]**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	2,878'	500	0
Pictured Cliffs	3,080'	200	0
	-		

Requested BOP Pressure Test Exception = 1500 psi

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

Form 46 Reviewed by:

Logging program reviewed by:

APPROVED:

DATE:

APPROVED:

DATE:

DNH/DDR	TT/HGJ
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28-Jul-05

[illegible]

Form 46 7-84bw

For Drilling Dept.

For Production Dept.

Cementing Program

Well Name:	Jacquez GC G 1S	API No.	
Location:	Sec 29 - 31N - 09W, 1410' FSL, 1740' FEL	Well Flac	
County:	San Juan	Formation:	Fruitland Coal
State:	New Mexico	KB Elev (est)	6277
		GL Elev. (est)	6266

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)
Surface	200	12 1/4	8 5/8	8rd	Surface
Production -	3180	7 7/8	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	Recommended Mud Properties Prio Cementing:	
			PV	<20
			YP	<10
0 - SCP	Water/Spud	8.6-9.2	Fluid Loss	<6
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 (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	246 sx Class "G" Cement	642 cuft
Slurry 1	+ 3% D79 extender	
TOC@Surface	+ 2% S1 Calcium Chloride	
	+1/4 #/sk. Cellophane Flake	
	+ 0.1% D46 antifoam'	
Tail	96 sx 50/50 Class "G"/Poz	121 cuft
Slurry 2	+ 2% gel (extender)	
500 ft fill	0.1% D46 antifoam	0.1733 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

**SAN JUAN BASIN
Basin Fruitland Coal
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 Basin Fruitland Coal. 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.

BP American Production Company

Well Control Equipment Schematic

