

RECEIVED

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

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

2003 SEP 26 AM 10:54

070 Farmington, NM

Lease Serial No.
NMSF - 078505

If Indian, Allottee or tribe Name

If Unit or CA Agreement, Name and No

Lease Name and Well No.
TRIGG FEDERAL GAS COM C 1S

API Well No.
3004531917

Field and Pool, or Exploratory
Basin Fruitland Coal

Sec., T., R., M., or Blk, and survey or Area
SEC 25 T31N & R9W

County or Parish
San Juan

State
NM

1a. Type of Work: ☒ DRILL ☐ REENTER

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

2. Name of Operator
BP America Production Company Attn: Cherry Hlava

3a. Address
P.O. Box 3092 Houston, Tx 77253-3092

3b. Phone No. (include area code)
281-366-4081

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

At surface NWNW LOT D 1155' FNL & 1020' FWL
At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office*
23.3 MILES N/E FROM AZTEC, NM

15. Distance from proposed*
Location to nearest
Property or lease line, ft. 1020'
(Also to nearest drig. Unit line, if any)

16. No. of Acres in lease
~~320.88~~
317.48

17. Spacing Unit dedicated to this well
~~320.88~~
317.48 W/2

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. 1200'

19. Proposed Depth
2970'

20. BLM/BIA Bond No. on file
WY2924

21. Elevations (show whether DF, KDB., RT, GL, etc.)
6001' GL

22. Approximate date work will start*
10/27/03

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:

- 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 Cherry Hlava Name (Printed/typed) CHERRY HLAVA Date 09/23/2003

Title
REGULATORY ANALYST

Approved by (Signature) D.M. Name (Printed/Typed) _____ Date 11-3-03

Title _____ Office _____

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)

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

NMOC

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

Additional Operator Remarks:

Notice of Staking was submitted on 8/29/2003

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 2970' and complete into the Basin Fruitland Coal Pool as per the attached drilling and completion procedure.

SUPPLEMENTAL TO SURFACE USE PLAN

New Facilities:

A 4" diameter buried steel pipeline that is + or - 200 feet in length will be constructed. The pipe wall thickness is .156 and the pipe wall strength is 42,000#. It will be adjacent to the access road and tie the well into an existing gas meter operated by BP America Production Company. The pipeline will not be used to transport gas to drill the well. After the well is spud the pipeline will be authorized by a right-of-way issued by Williams field Services, refer to the attached survey plat.

Waiting On Cement Time:

Waiver of 6 hr. Rule: Because BP America uses 3% CaCl₂ in our slurry, we achieve 300 psi compressive strength after 1 hr. 50 min. and 500 psi after 3 hrs. 8 min. Therefore we respectfully request a 2 hr. waiting on cement time (rather than 6 hrs.) prior to commencing any nipple up operations. Please see the attached Compressive Strength chart.

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 30-045-31917		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 1173	Property Name Trigg Federal Gas Com C		Well Number # 1S
OGRID No. 000778	Operator Name BP AMERICA PRODUCTION COMPANY		Elevation 6001

¹⁰ Surface Location

UL or Lot No. D	Section 25	Township 31 N	Range 9 W	Lot Idn	Feet from the 1155	North/South line NORTH	Feet from the 1020	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

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 320.88									
¹³ Joint or Infill									
¹⁴ Consolidation Code									
¹⁵ Order No.									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
817.48
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

						<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Cherry Nava</i> Signature Cherry Nava Printed Name Regulatory Analyst Title 9-3-03 Date</p>	
<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>August 16, 2003 Date of Survey Signature and Seal of Professional Surveyor 7016 Certificate Number</p>							

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

RECEIVED

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 - 078505
6. Indian, Allottee or tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
TRIGG FEDERAL GAS COM C 15

2. Name of Operator
BP AMERICA PRODUCTION COMPANY

9. API Well No.

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)
Section 25 T31N R9W NWNW LOT D 1155' FNL & 1020' FWL

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

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Water Disposal

☐ Water shut-Off

☐ Well Integrity

☐ Other

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 recompleat 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 recompleat 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.

High Productivity Area Well

In reference to Order No. R-8768-F dated July 17, 2003 BP America Production Co. has notified offset operators; Conoco Phillips & Burlington Resources of our intent to drill above mentioned well. Notification was sent 9/26/03 by certified mail, return receipt requested.

Released 11-13-2003

14. I hereby certify that the foregoing is true and correct
Name (Printed/typed)

Cherry Hlava

Title Regulatory Analyst

Signature

Cherry Hlava

Date 09/26/2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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.

NMOCD

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

Prospect Name: Trigg Federal Gas Com C
Lease:

Well No: 1S
Surface Location: Section 25D, T31N, R9W; 1155
FNL, 1020 FWL
Field: Basin Fruitland Coal

County: San Juan
State: New Mexico
Date: September 2, 2003

OBJECTIVE: Drill to a TD of 2970' kb - topset FT with 7" casing and air drill the Fruitland Coal interval.

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6001		Estimated KB: 6014	
Rotary	0 - 2957' MD, 2970' KB				
LOG PROGRAM		MARKER		SUBSEA	MEAS. DEPTH
		Ojo Alamo		4402	1612
		Kirtland		4309	1705
		Fruitland		3458	2556
		Fruitland Coal	*#	3324	2690
		Pictured Cliffs	*	3144	2870
		TOTAL DEPTH		3044	2970
		# Probable completion interval		* Possible Pay	
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		none	none	Geograph	0-2970
REMARKS:					
At TD and prior to completion of the Fruitland coal interval, the operator will FAX or email a copy of the mud log and gas chromatograph analysis covering the lower basal Fruitland coal seam and Pictured Cliffs Formation to the FFO-PMT geologist (Chip Harraden @ 505-599- 8997 or chip_harraden@nm.blm.gov).					

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 - 2650 (1)	Water/LSND	8.6-9.2		<6	
2650 - 2970	Gas/Air/N2/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	200' 120'	9 5/8"	H-40, 8 RND	32.3	12.5"	1
Intermediate	2650	7"	J-55, 8 RND	20.0	8.75"	1
Production	2970				11.0"	2

REMARKS:
(1) Circulate Cement to Surface
(2) Under-ream open-hole section from 6.25" to 11.0".

CORING PROGRAM:
None

COMPLETION PROGRAM:
No frac, open-hole completion. Run 2-3/8" reduced collar tubing to a depth of 2740' KB.

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: Daniel Crosby	APPROVED:	DATE: 9/2/03
Form 46 12-00 MNP		

BP America Production Company BOP Pressure Testing Requirements

Well Name: Trigg Federal Gas Com C
County: San Juan

1S
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1612		
Kirtland	1705		
Fruitland Coal	2690	400	0
PC	2870	500	0
Lewis Shale			
Cliff House			
Menefee Shale			
Point Lookout			
Mancos			
Dakota			

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

Requested BOP Pressure Test Exception: 850 psi

Cementing Program

Well Name: **Trigg Federal Gas Com C1S**
 Location: **Sec 25 - 31N - 9W, 1155' FNL, 1020' FWL**
 County: **San Juan**
 State: **New Mexico**

Field: **Basin Fruitland Coal**
 API No.
 Well Flac
 Formation: **Fruitland Coal**
 KB Elev (est) **6007**
 GL Elev. (est) **5995**

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	12.5	9.625	ST&C	Surface	NA	
Production -	2650	8.75	7	LT&C	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
Production -	7	20	K-55	3740	2270	234	0.0405	6.456

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Prio Cementing:
			PV <20
			YP <10
			Fluid Loss <6
0 - SCP	Water/Spud	8.6-9.2	
SCP - TD	Water/LSND	8.6-9.2	
SCP - TD	Gas/Air/N2/Mist	NA	

Cementing Program:

	Surface	Production
Excess %, Lead	100	40
Excess %, Tail	NA	40
BHST (est deg. F)	75	120
Special Instructions	1,6,7	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.	FreshWater	
Slurry 1	80 sx Class G Cement		83 cuft
TOC@Surface	+ 2% CaCl2 (accelerator)		
	0.25 #/sk Cellophane Flake (lost circulation additive)		0.347 cuft/ft OH
	0.1% D46 antifoam		

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
- Centralizers, 1 per joint except top joint
- 1 Stop Ring
- 1 Thread Lock Compound

Cementing Program

Production:

Fresh Water 10 bbl CW100

Lead	180 sx Class "G" Cement	448 cuft
Slurry 1	+ 3% D79 extender	
TOC@Surface	+ 2% S1 Calcium Chloride	
	+1/4 #/sk. Cellophane Flake	
	+ 0.1% D46 antifoam'	
Tail	90 sx 50/50 Class "G"/Poz	105 cuft
Slurry 2	+ 2% gel (extender)	
500 ft fill	0.1% D46 antifoam	0.1503 cuft/ft OH
	+1/4 #/sk. Cellophane Flake	0.1746 cuft/ft csg ann
	+ 2% CaCl2 (accelerator)	

Slurry Properties:

	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1	11.4	2.61	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 Top Rubber Plug

1 Thread Lock Compound

BP American Production Company

Well Control Equipment Schematic

