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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APR 16 2008

FORM APPROVED  
OMB No. 1004-0135  
Expires July 31, 2010

**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 078926**

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

8 Well Name and No  
**Gallegos Canyon Unit 325**

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

9 API Well No  
**30-045-24627**

3a. Address  
**P.O. Box 3092 Houston, TX 77253**

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

10 Field and Pool, or Exploratory Area  
**W. Kutz Pictured Cliffs**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**1520' FNL & 880' FWL SEC 35 T29N R13W SWNW**

11 County or Parish, State  
**San Juan County, New Mexico**

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 recompletable 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 recompletable 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.

**COMPLIANCE WELL**

After evaluation of the subject well BP America respectfully requests permission to abandon the entire wellbore.

Please see the attached procedure.

RCVD APR 21 '08

OIL CONS. DIV.

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

DIST. 3

**Cherry Hlava**

Title **Regulatory Analyst**

Signature *Cherry Hlava*

Date **04/09/2008**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by **Original Signed: Stephen Mason**

Title

Date

**APR 17 2008**

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.

NMOC

## SJ Basin Well P&A Procedure

Well Name: GCU 325                      API #: 30-045-24627  
Date: April 9, 2008  
Location: T29N-R13W-Sec35  
County: San Juan                      State: New Mexico  
Pipeline: Enterprise                      Gathering System: CHACO  
Horizon: PC                      Engr: Nona Morgan  
H2S = None Expected                      ph (281) 366-6207  
CO2 = 1.194%

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### Objectives: P&A Wellbore.

1. TIH and pull out completion
2. Cleanout wellbore
3. Set CIBP and Pressure test
4. Run CBL of 4-1/2" casing
5. Set cement plugs to isolate intervals.
6. Rig down move out.
7. Restore location.

### Well History: Spud date: 4/1981.

Workover 3/1982- Squeeze original perms. Perf and refrac in correct zone.

Workover 4/1995 - Reperf and stimulate PC

Well Svc: 9/2004 - Replace 50 jts of tubing

Well Svc. 5/1998- Cleanout fill. Replace mule shoe with open jt of tubing

Well Svc. 2/1998 - Replace 5 jts of tubing

Well Svc. 10/1997- Replace 3 jts of tubing

Well Svc. 11/1996- Reland Tubing

No Bradenhead issues recorded.

**Current Status:** *Well is shut in currently because it is unable to produce. It is on compliance and is repeatedly on the list because it cannot be produced without constant intervention. The well is on beampump but does not make any substantial quantity of gas. A review of the well history indicated the well was frac'd in the wrong zone initially and has not produced much gas. A subsequent squeezing of perforations and a perf and refract in the correct zone a year later did not yield a benefit in production rate. Although reserves potential remains, it has been determined that the wellbore integrity is too risky to recomplete again due to the initial bad frac location. It is believed that additional fracturing would not yield any economic benefit and would not result in uplift. Subsequently, the Reservoir Engineering Dept. is recommending to fully plug and abandon this well.*

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### Procedure:

#### Wellsite Preparations and Agency Notifications:

1. *Contact BLM and NMOCD 24 hrs before beginning P&A process to ensure scheduling of personnel to witness casing pressure testing, CBL results and cement placement.*

2. Perform pre-rig site inspection. Per Applicable documents, check for: (1) size of location, (2) gas taps, (3) other wells, (4) other operators, (5) production equipment, (6) wetlands, (7) wash (dikes requirements), (8) H<sub>2</sub>S, (9) barriers needed to protect equipment, (10) landowner issues, (11) location of pits (buried or lines in pits), (12) raptor nesting, (13) critical location, (14) check anchors, (15) ID wellhead, etc. Allow 48 hours for One Call if earth pit is required.
3. Have location stripped prior to rig move as this is a final wellbore PXA.
4. Perform and second site visit after lines are marked to ensure all lines locations are clearly marked and that Planning & Scheduling has stripped equipment and set surface barricades as needed.
5. Notify land owners with gas taps on well.
6. Lock out/tag out any remaining production equipment.

#### **Initial Well Checks & Preparations:**

7. Check gas H<sub>2</sub>S content and treat if the concentration is > or equal to 10 ppm/Treat for H<sub>2</sub>S, if necessary per H<sub>2</sub>S Wells NOTICE. *Note: No H<sub>2</sub>S is expected at this wellsite location.*
8. MIRU workover rig. Hold safety meeting and perform JSA. Complete necessary paperwork and risk assessment. Ensure all necessary production equipment is isolated (LOTO) including, but not limited to the meter run, automation, and separator, etc.
9. Check and record tubing, casing and bradenhead pressures daily. Ensure production casing and bradenhead valves are double valved. Double valve all casing strings. Check hold down pins on hanger.
10. Pressure test tree and hanger to 200 psi above SITP. Make up 3" flowback line, if necessary and blow down well. Kill with 2% KCL water or fresh water, as necessary. Check all casing strings to ensure no pressure exist on any annulus.

#### **TOH w/ Pump & Rods**

11. Hang off polish rod on stuffing box and remove horses head
12. Pump tubing capacity with 2% KCL water to load tubing. Test stroke pump to 500 psi if tubing will load. *Note: If tubing will not load or goes on vacuum after loading, then hole is present in the tubing or a pump shoe problem is indicated.*
13. Unseat pump. TOH w/ rods and pump. Inspect rods and pump for scale and wear. Watch lower rods near EOT closely for signs of wear on guides and rods.

#### **Remove Completion & Cleanout Wellbore & Pressure Test Casing:**

14. Nipple down Wellhead. Reference "No Dual Barrier in Annulus During All Well Servicing" dispensation. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 200 psi on the low end and on the high range at 1000 psi. Monitor flowing casing pressure with gauge (with casing flowing to blow tank), if available, throughout workover.

15. Install stripping rubber. Pull tubing hanger up to rubber and shut pipe rams. Bleed pressure above rams. Pull stripping rubber and hanger up to floor. Remove hanger and replace stripping rubber.
16. Open rams and TOOH w/ 2-3/8" production tubing currently set at 1710'. Use approved "Under Balance Well Control Tripping Procedure". Visually inspect tubing while POOH. *(It is acceptable to use the existing tubing as workstring, if it appears to be good. - WSL's discretion.)*
17. TIH w/ bit & scraper for 4-1/2" casing to the top of the PC perms at 1613' and clean out.
18. RIH with 4- 1/2" CIBP on workstring and set at 1563'.
19. Load hole and circulate out any produced fluids. Pressure test wellbore to 500 psi for 15 minutes. Monitor bradenhead for indications of communication while this is done.
20. RU wireline and run Schlumberger CBL for 4-1/2" casing from 1563' to surface. Report casing load, cement quality, and pressure test results, bradenhead pressure and bleed details, and TOC to the BLM, NMOCD, and Production Engineer.

**Note:** *According to cement volumetric calculations, sufficient quantities of cement have been pumped during the well completions to adequately cover the entire depth of the well from 1768' to surface of behind casing volumes. Completion reports showed that "good cement returns" were observed at surface.*

**Spot Plug Locations and Pump Cement to plug off Pictured Cliffs & Fruitland Coal intervals:**

21. RIH with 2-3/8" open-ended workstring to 1563'. Spot 550' or ~38 sacks - (49 cu. Ft.) of G-Class cement on top of CIBP from 1563-1013'. This will isolate the entire PCCF and FT Gas bearing productive intervals. WOC.
22. Based on 4-1/2" CBL forthcoming results, it will be determined if and where cement will be required behind casing to squeeze off the Pictured Cliffs Sandstone and Fruitland Coal productive intervals.

The next steps listed below assume the TOC behind the 4-1/2" casing is available in sufficient quantities to surface to fully plug off the identified producing intervals from a depth of 1768' to surface. However, the order and detail of the next steps could change based on the casing pressure test and CBL results. If necessary, a modified procedure that has been agreed upon by the NMOCD/BLM will be issued at that time to fully isolate and squeeze off any portion of the producing intervals where cement is found to be inadequate according to test reports. *The engineer should be consulted throughout the plugging and abandonment procedure. All CBL and pressure test results will be reported to the onsite NMOCD and BLM representatives.*

**Set Cement Plugs to Isolate & Plug off Shallow Productive Zones: Kirkland & Ojo Alamo**

24. RIH w/ 2-3/8" workstring and 4-1/2" cement retainer and set @ 560'.
25. RIH with 2-3/8" open-ended workstring to 560'. Spot 530' or ~36 sacks - (47 cu. Ft.) of G-Class cement on top of cement retainer from 530' to surface. This will isolate the wellbore from the entire Kirkland/Ojo Alamo horizon to surface.

26. Based on 4-1/2" CBL forthcoming results, it will be determined if and where additional cement will be required behind casing to meet regulatory requirements to squeeze off the Kirkland and Ojo Alamo intervals.

**Final Plugging and Abandonment steps:**

27. After completion of the above described or modified cementing procedures, If cement cannot be seen on all annulus and casing strings after removing wellhead, remedial cementing at the surface will be required.
28. Install 4' well marker and identification plate per NMOCD requirements.
29. RD and release all equipment. Remove all Wells Team LOTO equipment.
30. Ensure all well work details and well bore equipment report are entered in DIMS. Print DIMS summary of work and wellbore diagram and put in well file. Notify Sherri Bradshaw and Cherry Hlava of completed P&A for final regulatory agency reporting and database clearing.
31. Submit work request to Planning and Scheduling to prepare location for reclamation and reseeding.



**Gallegos Canyon Unit 325**  
 Pictured Cliffs  
 API # 30-045-24627  
 T-29N, R-13 W, Sec 35  
 San Juan County, New Mexico

GR 5855'  
 KB 5857'

**FORMATION TOPS**

Ojo Alamo	300'	Mancos	NR'
Kirkland	376'	Gallop	NR'
FT Coal	1314'	GRNR	NR'
PCCF	1653'	GRRS	NR'
Lewis	NR'	TWLS	NR'
Chacra	NR'	PGTE	NR'
CLFH-E	NR'	CBRO	NR'
CLFH	NR'	L CBRO	NR'
MENF	NR'	ENCN	NR'
PNLK	NR'	BRCN	NR'
		MRSN	NR'

**Well History:**

Spud date, 4/1981  
 9/2004 Well Svc - Replace 50 jts of tubing  
 5/1998 Well Svc - Clean out fill, Replace Mud Anchor w/  
 open jt of tubing.  
 2/1998 Well Svc - Replace 5 jts of tubing  
 10/1997 Well Svc - Replace 3 jts of tubing  
 11/1996 Well Svc - Reland tubing

End of Production Tubing @ 1709'

**Cement Squeeze 3/1982**

Squeezed PC perms from 1613'-1650'  
 w/ 200 sx class B w/ 2% CaCl2  
**Added new Perforations 3/1982**  
 Reperfd PC from 1657'-1668' w/ 1 JSPF  
 80 w/ 750 gal of 7-1/2% MCA. Frac'd w/  
 15,000 ga, 70% Q foam w/ 23,000 lbs  
 10-20 sand

Current Wellbore

9-7/8"  
 7", K-55, 17# @ 15'  
 65 sx class 'G' w/ 2% CaCl2 + 1/4# celloflake/sx  
 Good cement returns

2 3/8", 4 7#, J-55

**Sucker Rods (9/2004)**  
 57 Rods 3/4"x25 GRD D FSSMC  
 Pump, RWAC 2 0X1 5X 8

**Pictured Cliffs Perforations**

1613'-1650' - 3 -1/8" hscg 120 deg phasing, 1 JSPF 16 holes @ 0.39" dia  
 1657'-1668'  
 1654'-1690' - 3 -1/8" hscg 90 deg phased, 4 JSPF 81 holes @ 0.39" dia  
**Frac'd and added new PC perforations 3/1995**  
 Frac'd with 250 gal 15% HCL & 33M gal 70 Qual N/2, 113M 12/20 Brady s

6 1/4" Hole  
 4-1/2" J-55, 10 5# @ 1768'  
 250 sx 50 50 Poz mix w/ 2% gel  
 and 1/4# celloflake and 0.5% NFR  
 Good cement returns to surface

PBTD 1729'  
 TD 1772'



**Gallegos Canyon Unit 325**  
 Pictured Cliffs  
 API # 30-045-24627  
 T-29N, R-13-W, Sec 35  
 San Juan County, New Mexico

GR 5855'  
 KB 5857'

# Proposed Plug and Abandonment Wellbore

Cement plug 450'-surface

9-7/8"  
 7", K-55, 17# @ 15'  
 65 sx class 'G' w/ 2% CaCl<sub>2</sub> + 1/4# celloflake/sx  
 Good cement returns

Per Geologist Review.

## FORMATION TOPS

Ojo Alamo.	300'	Mancos:	NR'
Kirkland:	376'	Gallop:	NR'
FT Coal:	1314'	GRNR:	NR'
PCCF:	1653'	GRRS:	NR'
Lewis:	NR'	TWLS:	NR'
Chacra:	NR'	PGTE:	NR'
CLFH-E	NR'	CBRO:	NR'
CLFH:	NR'	L CBRO:	NR'
MENF:	NR'	ENCN:	NR'
PNLK:	NR'	BRCN:	NR'
		MRSN:	NR'

Cement plug 1563'-1013'

## Well History:

Spud date - 4/1981  
 9/2004 Well Svc: Replace 50 jts of tubing  
 5/1998 Well Svc - Clean out fill, Replace Mud Anchor w/  
 open jt of tubing.  
 2/1998 Well Svc - Replace 5 jts of tubing  
 10/1997 Well Svc - Replace 3 jts of tubing  
 11/1996 Well Svc - Reland tubing

CIBP set at 1563'

## Cement Squeeze 3/1982

Squeezed PC perms from 1613'-1650'  
 w/ 200 sx class B w/ 2% Ca Cl<sub>2</sub>  
**Added new Perforations 3/1982**  
 Reper'd PC from 1657'-1668' w/ 1-1/4" JSPF  
 BD w/ 750 gal of 7-1/2% MCA Frac'd w/  
 15,000 ga, 70% Q foam w/ 23,000 lbs  
 10-20 sand

## Pictured Cliffs Peforations

1613'-1650' - 3 - 1/8" hscg 120 deg phasing 1 JSPF 16 holes @ 0.39" dia  
 1657'-1668'  
 1654'-1690' - 3 - 1/8" hscg 90 deg phased, 4 JSPF 81 holes @ 0.39" dia  
**Frac'd and added new PC perforations 3/1995**  
 Frac'd with 250 gal 15% HCL & 33M gal 70 Qual N/2, 113M 12/20 Brady s

6 1/4" Hole  
 4-1/2", J-55, 10.5# @ 1768'  
 250 sx 50-50 Poz mix w/ 2% gel  
 and 1/4# celloflake and 0.5% NFR  
 Good cement returns to surface

PBTD 1729'  
 TD 1772'

# Cement Volumes:

## Kirtland/Ojo Alamo/Surface Plug

Casing I D	Calc Capacity	Start Depth	End Depth	Volume	Sacks of Cement
4 052	0 0895	0	530	47.4	36

## Pictured Cliffs - Fruitland Coal Plug

Casing I D	Calc Capacity	Start Depth	End Depth	Volume	Sacks of Cement
4 052	0 0895	1013	1563	49.2	38

Total Cement

74