

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No NMSF078106
2. Name of Operator BP AMERICA PRODUCTION CO		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
Contact: CHERRY L HLAVA E-Mail: hlavacl@bp.com		7. If Unit or CA/Agreement, Name and/or No. NMNM78391A
3a. Address PO BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281-366-4081	8. Well Name and No. GCU 316
4. Location of Well (Footage, Sec., T, R, M, or Survey Description) Sec 21 T28N R12W NESE 1830FSL 0950FEL 36.64549 N Lat, 108.11075 W Lon		9. API Well No. 30-045-21865-00-S1
		10. Field and Pool, or Exploratory WEST KUTZ PICTURED CLIFFS
		11. County or Parish, and State SAN JUAN COUNTY, NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 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.)

## SEPTEMBER INACTIVE/COMPLIANCE WELL

Above mentioned slim hole well is currently unable to produce & there is no further uphole potential.

BP respectfully request permission to plug & abandon the entire wellbore.

Please see the attached P&A procedure.

RCVD NOV 3 '09

OIL CONS. DIV.

DIST. 3

**H<sub>2</sub>S POTENTIAL EXIST**

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #76341 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO, sent to the Farmington Committed to AFMSS for processing by STEVE MASON on 10/29/2009 (10SXM0623SE)</b>	
Name (Printed/Typed) CHERRY L HLAVA	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 10/27/2009

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

Approved By STEPHEN MASON	Title PETROLEUM ENGINEER	Date 10/29/2009
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 Farmington

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*****NMOCD**

## San Juan Basin P&A Procedure

30-045-21685

Well Name: GCU 316  
Version: 1.0  
Date: October 26, 2009  
Location: T28N-R12W-Sec 21  
County: San Juan  
State: New Mexico  
Horizon: PC  
CO2: 0.9589%  
H2S: None known

Engr: Nona Morgan  
Phone (281)-366-6207

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### Objective: Plug and Abandonment

1. TIH and pull out completion
2. Cleanout wellbore
3. Isolate wellbore to check casing integrity
4. Run CBL of 2-7/8" casing & consult w/ NMOCD
5. Set cement plugs to isolate intervals.
6. Install markers.
7. Rig down move out.
8. Restore location.

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**Well History:** Spud date: 3/1976 . Well Serv 8/2002- Replace holey tubg.; Well Serv 8/2004- Replace holey tbg. Well Serv. 2/2005 - Replace holey tbg; remove scale on perfs; install fiberglass rod; Well Serv 7/2007- Remove scale; 12/2007 - Remove scale and fill; black gummy substance on rod; 4/2008 - replace rod, 2 bad spots, splices in rod; Well Serv 4/2008 - replace 3 jts of tbg. Rerun pump and rod.

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Current Status - Well is shut in and unable to produce. The well is a slimhole design with 1-1/4" production tubing. Previously the well production had been very low and inconsistent. The well has only about 50-60 psi reservoir pressure. However, despite the wellwork that has been done over the last 2-3 years, no improvement in production has occurred. Furthermore, there is no uphole potential for this well. The well makes very little fluid, which can be pumped off, but the reservoir pressure is too low to provide any gas flow for any consistent production and thus normally remains shut in.

### Procedure:

#### Preparations

#### Wellsite Preparations and Agency Notifications:

1. Notify the following Inspectors 48 hours before working on the well;  
  
Charlie Perrin 505-334-6178 ext.11 or Kelly Roberts 505-334-6178 ext. 16 (NMOCD)  
Steve Mason 505-599-6364 (BLM)
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) H2S, (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. Identify wellhead for proper flange connections and BOP equipment.
4. Work with GCU through CoW and w/P&S to develop a plan to move or temporarily relocate equipment that prohibits well servicing/plugging objectives.
5. Notify land owners with gas taps on well.
6. Perform a second site visit after lines are marked to ensure all line locations are clearly marked and that Planning & Scheduling has stripped equipment and set surface barricades as needed.
7. Properly lock out/tag out any remaining production equipment. Ensure all necessary production equipment is isolated (LOTO) including, but not limited to the meter run, automation, and separator, etc.

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

8. 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.
9. MRU workover rig. Conduct lifting JHA and fill out permit for removing the Horse's head. Complete necessary paperwork and risk assessment.
10. Check and record tubing, casing and bradenhead pressures daily. Ensure production casing and bradenhead valves are valved per DWOP requirements. Check lock down pins on hanger.
11. 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**

12. Hang off polish rod on stuffing box and remove horse's head.
13. 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 in tubing or pump shoe problem is indicated.
14. Unseat pump. TOH Rods/Pump, inspect rods and pump for scale or wear. \*Watch lower rods (near EOT) closely for signs of wear on guides and rods. (Discuss disposition of rods with Engineer and Ken Russell.)

#### **Completion Removal**

15. RU slickline and set mechanical barriers plugs/bpv in tubing and tubing hanger or install "G" packoff. Blowdown and kill tubing and casing strings. RD slickline.
16. 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 250 psi on the low end and on the high range at 1500 psi. Monitor flowing casing pressure with gauge (with casing flowing to blow tank), if available, throughout workover.

17. 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.
18. Open rams and TOOH w/ 1-1/4" production tubing currently set at 1422'. PBTD 1503' 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 have good integrity based on normal inspection procedures. - WSL's discretion.)*
19. TIH w/ bit & scraper for 2-7/8" casing to the top of the PC perms at 1384' and clean out.
20. RIH with 2-7/8" CIBP on workstring and set at 1360'.
21. 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 being done.
22. RU slickline and run Schlumberger CBL for 2-7/8" casing from 1360' to surface. RD slickline. Report casing load, cement quality, and pressure test results, bradenhead pressure and bleed details, and TOC to the BLM, NMOCD, and Production Engineer.

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

23. RIH with 2" open-ended workstring to 1360'. Spot 610' or ~42 sacks - (35 cu. Ft.) of G-Class cement on top of CIBP from 1360'-750'. This will isolate the entire PCCF and FT Gas bearing productive intervals. WOC.
24. Based on 2-7/8" 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 2-7/8" casing is available in sufficient quantities to surface and will fully plug off the identified producing intervals from a depth of 1544' to surface. However, the order and detail of the next steps could change based on the casing pressure tests 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 procedures. 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**

25. RIH w/ 2" workstring and 2-7/8" cement retainer and set @ 365'.
26. RIH with 2" open-ended workstring to 365'. Spot 365' or ~25 sacks - (22 cu. Ft.) of G-Class cement on top of cement retainer from 365' to surface. This will isolate the wellbore from the entire Kirkland/Ojo Alamo horizon to surface.
27. If CBL indicates no cement behind pipe across the Kirkland or Ojo interval, work with engineer to develop plans to perform a squeeze behind pipe from 365' to surface. A review with the Agency will then occur for their approval to proceed.

**Final Plugging and Abandonment steps:**

28. 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.
29. Install 4' well marker and identification plate per NMOCD requirements.
30. RU slickline to remove all mechanical barriers and plugs. RD slickline.
31. RD service rig and release all equipment. Remove all Wells Team LOTO equipment.
32. Ensure all well work details and well bore equipment report are entered in DIMS. Print DIMS summary of work and wellbore d'  
reporting and database clearing.
33. Submit work request to Planning and Scheduling to prepare location for reclamation and reseedling.

Current Wellbore



### Gallegos Canyon Unit 316

Pictured Cliffs

API # 30-045-21865

T-29N, R-12-W, Sec. 21

San Juan County, New Mexico

#### History

Spud Date: 1975

Solar Pump Install 2007

CDI spooled out FG rods & plunger, unable to retrieve standing valve 4/2008

#### Sucker Rods(2007)

1/2" fiberglass rods  
3/4" plunger

6/9/2008

pump barrel tagged @ 1410'

#### PC Perfs (1976)

1,384' - 1,402' w/ 2 SPF

G.R. 5608'

8-3/4" Hole  
7", 26#, J-55 @ 43'  
Cmt w/ 10 sks

#### Tubing (2008)

cross over 2-3/8 EUE - 8 rd x 1-1/4  
1-1/4", 2.4#, J-55, EUE (42 JTS) -plastic lined

cross over 1-1/4x 2-3/8"  
Pump Working bbl, 2.375x 20  
1.90, 2.76# J-55 IJ

EOT @ 1,422' (2008)

#### PC Frac (1976)

Frac'd using 148,500scf N<sub>2</sub>, 30,000 lbs sand,  
154 bblss water and 40 gal Ada foam.

4-3/4" Hole  
2-7/8", 6.5#, @ 1544'  
Cmt w/ 100 sks

PBTD: 1503'  
TD: 1554'

NFM (4/16/08)

Proposed PXA



# **Gallegos Canyon Unit 316**

Pictured Cliffs

API # 30-045-21865

T-28N, R-12-W, Sec. 21

San Juan County, New Mexico

## **History**

Spud Date: 3/1976

2005- Wellhead compression added!

Solar Pump Install 2007

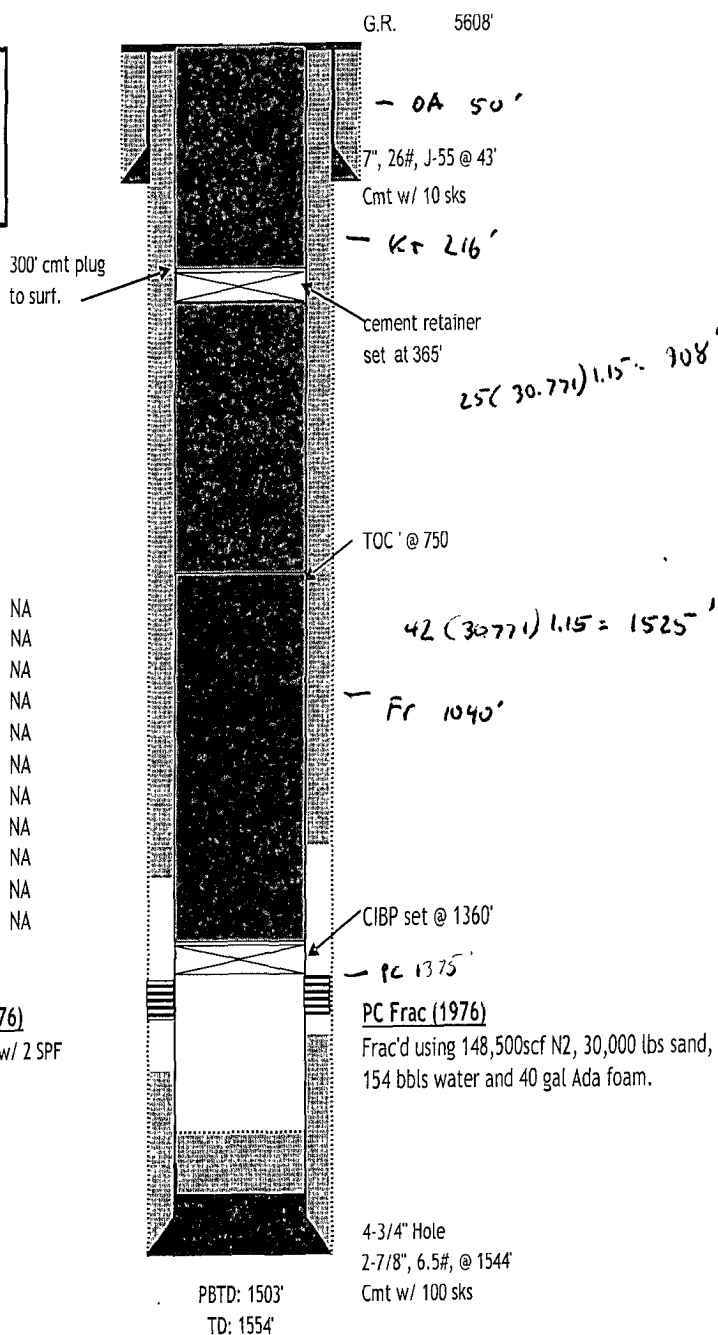
CDI spooled out FG rods & plunger, unable to retrieve standing valve 4/2008

## **Formation Tops**

OJAM	130'50	MNCS	NA
KTLD	216	GLLP_M	NA
FTLD	808' 1040	GRNR	NA
IGNA	1208'	GRRS	NA
CTWD	1292'	TWLS	NA
CAHN	1358'	PGTE	NA
PCCF	1373'5	CBRO	NA
LWIS	1547'	L. CBRO	NA
MENF	NA	ENCN	NA
PNLK	NA	BRCN	NA
		MRSN	NA

## **PC Perfs (1976)**

1,384' - 1,402' w/ 2 SPF



NFM (10/26/09)