

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.**5. Lease Serial No.  
NMSF078905

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

2. Name of Operator

BP AMERICA PRODUCTION CO

Contact: CHERRY HLAVA

E-Mail: hlavacl@bp.com

8. Well Name and No.

GALLEGOS CANYON UNIT 412

9. API Well No.

30-045-28759

3a. Address

P.O. BOX 3092  
HOUSTON, TX 77253-3092

3b. Phone No. (include area code)

Ph: 281-366-4081

10. Field and Pool, or Exploratory

FRUITLAND &amp; KUTZ PC

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 12 T28N R12W SWSW 1010FSL 995FWL

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

- ☒
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

- ☐
- 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
- 
- ☐
- Temporarily Abandon
- 
- ☐
- 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.)

BP America finds no further potential for the above mentioned well and respectfully request permission to P&A the entire wellbore.

Please see plugging procedure attached.

RCVD JUN 30 '10

OIL CONS. DIV.

DIST. 3

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #88566 verified by the BLM Well Information System  
For BP AMERICA PRODUCTION CO, sent to the Farmington**

Name (Printed/Typed) CHERRY HLAVA

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/25/2010

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Office

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.

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

NMOC



## BP - San Juan Wellwork Procedure

### GCU - 412

#### General Information:

<b>Formation:</b>	Fruitland/Pictured Cliffs	<b>Job Objective:</b>	P&A
<b>Project #:</b>	X6-003M0	<b>Date:</b>	6/24/10
<b>Engineer:</b>	Trevor McClymont	<b>p.</b>	281.366.1425
<b>Base Management Engr:</b>	Nona Morgan	<b>p.</b>	281.366.6207
<b>Production Team Leader</b>	Kenny Anderson	<b>p.</b>	505.326.9495
<b>GCU Optimizer:</b>	Butch Stavely	<b>p.</b>	505-793-9438
		<b>c.</b>	701-770-6879

#### Well Information:

<b>API Number:</b>	30-045-28759-00
<b>BP WI:</b>	
<b>Run #:</b>	
<b>Lease FLAC:</b>	
<b>Well FLAC:</b>	
<b>Surface Location:</b>	Unit M - Sec 12 - T28N - R12W
<b>GPS Coordinates</b>	lat 36.67224 long 108.0686
<b>Meter #</b>	
<b>Cost Center:</b>	
<b>Compressed (Y/N):</b>	N
<b>Restrictions:</b>	None
<b>Regulatory Agency:</b>	BLM / NMOCD

#### Production Data:

<b>Tubing Pressure:</b>	0 psi
<b>Casing Pressure:</b>	0 psi
<b>Line Pressure:</b>	30 psi
<b>Pre-rig Gas Rate:</b>	0 psi
<b>Anticipated Uplift:</b>	N/A
<b>Water Rate:</b>	0
<b>CO2 (%):</b>	1.1909
<b>H2S (PPM):</b>	No
<b>Gas BTU:</b>	1044
<b>Specific Gravity</b>	0.5939
<b>Artificial Lift Type:</b>	Beampump

#### Budget and Work Order Information

<b>Rig Budget:</b>		<b>Total AFE Amount:</b>	
<b>P&amp;C Budget:</b>		<b>Work Order #:</b>	
<b>Swabbing Budget:</b>			

*\*ALL work shall comply with DWOP E&P Defined Operating Practice\**

#### Well Histories

Spud date: 10/1992  
Well Serv 7/1996 - Tag fill @ 1418' & C/O  
Well Serv 12/1997 - Tubing leak. Replace holey tubing.  
Well Serv 2/1998 - Pump change  
Well Serv 10/2001- Tag fill @ 1466' & C/O  
Workover 11/2002- Recomplete to PC and DHC w/ FC. Rod up.  
Well Serv 7/2004 - Replace 20 jts of tbg w/ yellow band  
Well Serv 3/2006 - Severe rod cut tbg at 40th jt. Replace & change pump  
Well Serv 11/2007 - Replace bad rods and rod cut tubing  
Well Serv 7/2009 - Replace holey tbg. Land @ 1506'

### **Standard Site Preparations**

Notify **BLM & NMOCD** 24 hours prior to beginning operations P&A process to ensure scheduling of personnel to witness CBL results and cement placement. NMOCD: **(505) 334-6178** (Kelly Roberts)

1. Perform pre-rig site inspection. Per Applicable documents, check for:

1. Size of Location	6. Wash (dikes requirements)	11. Landowner Issues
2. Gas Taps	7. Raptor nesting	12. Protection Barriers Needed
3. Other Wells	8. H2S	13. Critical Location
4. Other Operators	9. Wetlands	14. Anchors
5. Production Equipment,	10. Location of Pits	15. ID Wellhead

Allow 48 hours for One Call if earth pit is required.

2. Identify wellhead for proper flange connections and BOP equipment.
3. 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.
4. Notify landowners with gas taps on well.
5. 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.
6. 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:**

7. Check gas H2S content and treat if the concentration is > or equal to 10 ppm/Treat for H2S, if necessary per H2S Wells NOTICE.
8. MIRU workover rig. Conduct lifting JHA and fill out permit for removing the Horse's head. Complete necessary paperwork and risk assessment.
  - a. For large Pumping units, 3<sup>rd</sup> part contractor may be required to un-hang horses head.
  - b. For smaller Pumping units, move ladder to pad and locate employee near horses head and attach chain on hydraulic wench to hoses. Lift and unhang horses head
9. Check and record tubing, casing, and bradenhead pressures daily. Record pressure and notify engineer if BH pressure exceeds 50 psi or if there is any water or gas flow. Ensure production casing and bradenhead valves are double valved if necessary. Follow guidelines as directed by DWOP. Double valve all casing strings as required. Check lock down pins on hanger (where applicable).
10. Pressure test tree and hanger to 200 psi above SITP (if applicable). Make up 3" flowback line, if necessary and blow down well. Kill with 2% KCL 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. Install run-in Radigan and rod table. Unseat pump. TOH Rods/Pump. Lay Down

### Completion Removal

13. Hold JHA and fill out permit for BOP critical lift. *Be sure to call ops center to open/close permit (505 326-9463)*  
\* *Ensure that TIW valve w/square key for opening and closing is on the floor at all times*
14. NU BOPs and diversion spool with mudcross - 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 500 psi
  - Monitor flowing casing pressure with gauge (with casing flowing to blow tank, if available throughout workover, if available)
  - Remove wellhead backpressure valve if used.
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. TIH and tag fill (when applicable). Determine amount of fill and contact engineer to determine if clean out is necessary. *(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.)*
17. Open rams and TOO H w/ 2-3/8" production tubing currently set at 1505'. Visually inspect tubing while POOH. Lay down bad tubing as necessary. *(Evaluate tubing for scale/paraffin to decide if scraper run is necessary, WSL discretion)*
  - 18.1 RIH w/ bit & scraper and scrape across 1300' -1380' (this will ensure csg is clean and CIBP will set) perforations to 1415'
  - 18.2. TOH w/ bit & scraper.
18. RIH with 4-1/2" CIBP on workstring and set at 1353'.
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 being done.
20. RU slickline and run CBL for 4-1/2" casing from PBTD' to surface. RD slickline. Report casing load, cement quality, and pressure test results, bradenhead pressure and bleed details, and TOC to the NMOCD, and Engineer.
21. RIH with 2-3/8" open-ended workstring to 1353'. Spot 353' plug- (6.2 bbls.) of G-Class cement on top of CIBP from 1533-1000. This will isolate the entire Fruitland Coal, Fruitland Sands, and Picture Cliffs intervals  
Capacity of 4-1/2" : 0.0896 ft<sup>3</sup>/ft  
Plug 1353' - 1000' → 353' + 50' excess → **35.0 ft3**
22. Move in Wireline unit, equipment, and crew. Be sure to fill out necessary work orders. Wireline must perform LOTO and JSA.
23. RIH with perforating gun and shoot holes @ 349-350'.  
*1.56" perforating guns with 6spf, 60° phasing charges*
24. RD wireline.

*The following steps may change depending on the results from CBL.*

25. RU pump truck. Establish circulation. Once circulation is established, pump and circulate **75.8** cu ft cement from **350' to surface behind and inside 4-1/2" casing**. This will isolate the Kirtland and Ojo intervals and place cement around the bottom of the 7" surface casing shoe to surface and both inside and behind the 4-1/2" casing. POOH.

Capacity of 4-1/2" x 6 3/4" -- 0.1381 ft<sup>3</sup>/ft OH  
Plug 350' -144 → 425' → 28.5 ft<sup>3</sup>  
Capacity of 4-1/2" x 7" -- 0.1169 ft<sup>3</sup>/ft  
Plug 144' -surface → 127' → 16.8 ft<sup>3</sup>  
Capacity of 4-1/2" : 0.0896 ft<sup>3</sup>/ft  
Plug 350 - surface → 552' → 30.5 ft<sup>3</sup>  
Total Plug → 75.8 ft<sup>3</sup>

26. Perform underground disturbance and hot work permits. Cut off tree.
27. If cement cannot be seen on all annulus and casing strings, remedial cementing will be required from surface.
28. Install well marker and identification plate per regulatory requirements. Dry hole marker should contain the following:

BP American Production Co.  
GCU 412  
API 30-045-28759  
Unit M - Sec 12 - T28N - R12W  
1010 FSL, 995 FWL  
San Juan, NM  
Fruitland Coal/Picture Cliffs Formation  
Federal Lease number: NMSF 078905  
P&A date - TBD

29. RD and release all equipment. Remove all LOTO equipment.
30. Ensure all reports are loaded into OpenWells. Print out summary of work and place in Well file. Notify Sherri Bradshaw (505-326-9260), Cherry Hlava (281-366-4081) of completed P&A.

# Current Well Bore Diagram



**Gallegos Canyon Unit 412**  
Fruitland Coal / Pictured Cliffs  
API # 30-045-28759  
T-28N, R-12-W, Sec. 12  
San Juan County, New Mexico

G.L. 5487'  
K.B. 5502'

## Well History

Spud date: 10/1992  
Well Serv 7/1996 - Tag fill @ 1418' & C/O  
Well Serv 12/1997 - Tubing leak. Replace holey tubing  
Well Serv 2/1998 - Pump change  
Well Serv 10/2001 - Tag fill @ 1466' & C/O  
Workover 11/2002 - Recomplete to PC and DHCw/ FC Rod up.  
Well Serv 7/2004 - Replace 20 jts of tbg w/ yellow band  
Well Serv 3/2006 - Severe rod cut tbg at 40th jt. Replace & change pump  
Well Serv 11/2007 - Replace bad rods and rod cut tubing  
Well Serv 7/2009 - Replace holey tbg. Land @ 1506'

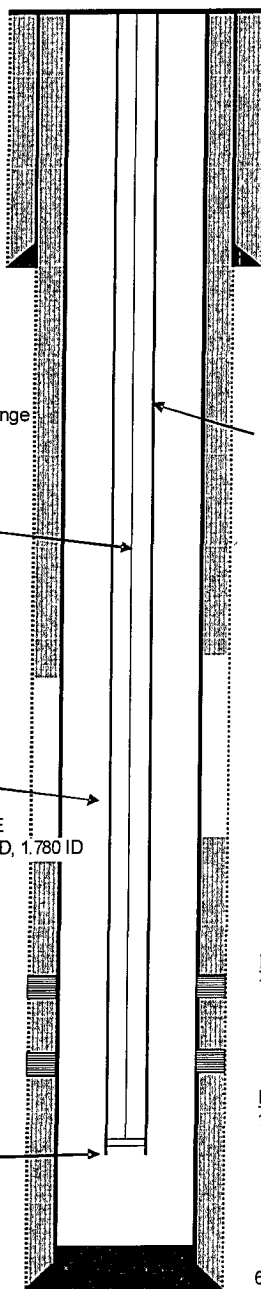
## Rod Details(7/2009)

ROD, POLISHED 1.25 X 16 FT  
RODS, PONY: 0.750 GRD. D  
RODS, PONY: 0.750 GRD. D  
RODS, PONY: 0.750 GRD. D  
RODS: 0.75 X 25 GRD. D  
RODS: 0.75 X 25 GRD. D  
RODS, SINKER: 1.50 GRD. C  
PUMP, RHAC, 2.0 X 1.25 X 8

## Tubing Details(7/2009)

TUBING HANGER, 2.375  
TUBING, 2.375, 4 7#, J-55, EUE  
NIPPLE, PROFILE, "F", 2.375 OD, 1.780 ID  
MULE SHOE, 2.375

End of Production String @ 1505'  
(07/2009)



PBTD: 1533'  
TD: 1560'

NFM 06 18 2010

Deviation Report	
150'	3/4 deg
650'	1 deg
1500'	3/4 deg

Formation tops	
OJAM	158
KTLD	296
FTLD	1100
IGNA	1259
CTWD	1350
CAHN	1403
POCF	1415
TD	1560
PBTD	1553

## Fruitland Coal Perforations(10/1992)

1403' - 1415', 4 SPF } Frac w/ 216 bbls 16# linear gel  
70-60Q N2 foam, 55,000#  
20/40 sand

## Pictured Cliffs Perforations(11/2002)

1422' - 1460', 4 SPF } Frac w/ 500 gals 15% HCl Acid,  
70Q N2 Foam (473 3 bbls total  
fluid pumped, 85,719 cu-ft total  
N2 used), 55,088# 16/30 sand

6 1/4" Hole  
4 1/2", 10.5#, K-55 @ 1554'  
Cmt w/ 240 sxs  
(Good cement returns)

# Proposed Well Bore Diagram



**Gallegos Canyon Unit 412**  
Fruitland Coal / Pictured Cliffs  
API # 30-045-28759  
T-28N, R-12-W, Sec 12  
San Juan County, New Mexico

GL 5487'  
KB 5502'

Deviation Report	
150'	3/4 deg
650'	1 deg
1500'	3/4 deg

## Surface Plug

350' - Surface  
75.8 ft<sup>3</sup>  
13.5 bbls

8 3/4" Hole  
7", 20#, J-55 @ 144'  
Cmt w/ 100 sxs  
(Good cement returns)

Ojo Alamo 163'  
Kirtland 294'

$$\begin{aligned} 350 / 11.167 &= 31.3 \text{ ft}^3 \\ 206 / 9.746 &= 21.1 \text{ ft}^3 \\ 144 / 4.046 &= 35.6 \text{ ft}^3 \\ \hline &88.0 \end{aligned}$$

PLUG

1st Plug  
1353' - 1000'  
35.0 ft<sup>3</sup>  
6.23 bbls 1121'

Fruitland

$$1353 - 1000 / 11.167 = 31.6 \text{ ft}^3$$

Pictured Cliffs 1416'

## Fruitland Coal Perforations(10/1992)

1403' - 1415', 4 SPF } Frac w/ 216 bbls 16# linear gel  
70-60Q N2 foam, 55,000#  
20/40 sand

## Pictured Cliffs Perforations(11/2002)

1422' - 1460', 4 SPF } Frac w/ 500 gals 15% HCl Acid,  
70Q N2 Foam (473.3 bbls total  
fluid pumped, 85,719 cu-ft total  
N2 used), 55,088# 16/30 sand

PBTD 1533'  
TD 1560'

6 1/4" Hole  
4 1/2", 10.5#, K-55 @ 1554'  
Cmt w/ 240 sxs  
(Good cement returns)

THM 06 24 2010

## Wellbore Equipment

<b>Strings/Assemblies in the Hole on 7/16/2009</b>									
<b>GCU 412</b>		<b>Event: WELL SERVICING</b>							
<b>Wellbore: OH</b>		<b>Event Dates: 7/14/2009 to 7/16/2009</b>							

<b>TUBING</b>									
Install Date: 7/16/2009		Top: 10.00 ft		Status: INSTALLED					
		Bottom: 1,505.8 ft		Pull Date: <no data>					

Component Details	Size	Jts	Length	Weight	Grade	Threads	Min ID	Cond.	Comments
TUBING HANGER, 2 3/8	2 3/8 in	1	1.00 ft	0.00 lb/ft			1.995 in		
TUBING, 2 3/8, 4 7/8, J-55, EUE	2 3/8 in	47	1,477.50 ft	4.70 lb/ft	J-55	EUE	1.995 in	NI	
NIPPLE, PROFILE, "F", 2 3/8 OD, 1 7/8	2 3/8 in	1	0.83 ft	0.00 lb/ft			1.780 in		
MULE SHOE, 2 3/8	2 3/8 in	1	16.45 ft	4.70 lb/ft	J-55	EUE	2.041 in	U	

<b>SUCKER RODS</b>									
Install Date: 7/16/2009		Top: 0.00 ft		Status: INSTALLED					
		Bottom: 1,484.0 ft		Pull Date: <no data>					

Component Details	Size	Jts	Length	Weight	Grade	Threads	Min ID	Cond.	Comments
ROD, POLISHED, 1.25 X 16 FT	1 250 in	1	16.00 ft	0.00 lb/ft			0.000 in		
RODS, PONY, 0.750 GRD. D	0.750 in	1	4.00 ft	0.00 lb/ft	D		0.000 in	N	
RODS, PONY, 0.750 GRD. D	0.750 in	1	6.00 ft	0.00 lb/ft	D		0.000 in	N	
RODS, PONY, 0.750 GRD. D	0.750 in	1	8.00 ft	0.00 lb/ft	D		0.000 in	N	
RODS, 0.75 X 25 GRD. D	0.750 in	12	300.00 ft	0.00 lb/ft	D		0.000 in	N	
RODS, 0.75 X 25 GRD. D	0.750 in	44	1,100.00 ft	0.00 lb/ft	D		0.000 in	U	
RODS, SINKER 1 50 GRD. C	1.500 in	2	50.00 ft	0.00 lb/ft	C		0.000 in	N	
PUMP, RHAC, 2 0 X 1.25 X 8	2.000 in	0	0.00 ft	0.00 lb/ft			1.250 in	NT	

WITH ROD GUIDES  
2X1.25X5X7X9XRHAC