

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 type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: COAL BED METHANE	8. Well Name and No. BARNES B 21S
2. Name of Operator BP AMERICA PRODUCTION COMPANY Contact: TOYA COLVIN Email: Toya.Colvin@bp.com	9. API Well No. 30-045-32473-00-S1
3a. Address 501 WESTLAKE PARK BLVD. THREE ELDRIDGE PLACE HOUSTON, TX 77079	10. Field and Pool, or Exploratory BASIN FRUITLAND COAL
3b. Phone No. (include area code) Ph: 281-366-7148	11. County or Parish, and State SAN JUAN COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T32N R11W NWSE 1530FSL 1840FEL 36.981961 N Lat, 107.938970 W Lon	

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 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 Production Company respectfully requests to P&A the subject well.

Please see the attached P&A procedure including BLM required reclamation plan documents.

In accordance with NMOCD Pit Rule 19.15.17.9 NMAC, BP will use a closed-loop system during operations.

OIL CONS. DIV DIST. 3

MAR 21 2016

14. I hereby certify that the foregoing is true and correct. Electronic Submission #333192 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by ALBERTA WETHINGTON on 03/16/2016 (16AMW0178SE)	
Name (Printed/Typed) TOYA COLVIN	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 03/08/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE	Title PETROLEUM ENGINEER	Date 03/17/2016
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

31

October 29, 2015

NMOCD

BP would like to permanently abandon the Barnes B 21S well, as per the proposed procedure and wellbore sketches.

PLUG AND ABANDONMENT PROCEDURE

Basin Fruitland Coal

1530' FSL / 1840' FEL Section 13, T-32-N, R-11-W

San Juan County, NM, API #30-045-32473

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.

1. Install and test location rig anchors. Comply with all State, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
 2. Rods: Yes X, No , Unknown .
Tubing: Yes X, No , Unknown , Size 2-3/8", Length 2916'.
Packer: Yes , No X, Unknown , Type .
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
- Round trip 7" mill to 2571'.

4. **Plug #1 (PC top, Fruitland Coal Perforations, 7" casing shoe, and 5.5" liner top, 2920' – 2510')**: TIH and set 7" cement retainer at 2571'. Pressure test tubing to 1000#. Load casing with water and circulate well clean. Pressure test casing to 1000#. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 100 sxs cement and squeeze 75 sxs below CR to isolate the PC top, FtC perforations, 7" casing shoe and 5.5" liner top then sting out and spot a balanced plug inside casing above the CR to isolate the Fruitland top. PUH.
3. **Plug #2 (Kirtland and Ojo Alamo tops, 2081' – 1824')**: Mix 58 sxs cement and spot a balanced plug inside casing to cover the Kirtland and Ojo Alamo tops. PUH.
4. **Plug #3 (Nacimiento top, 607' – 507')**: Mix 29 sxs cement and spot a balanced plug inside casing to cover the Nacimiento top. PUH.
5. **Plug #4 (9.625" casing shoe and surface, 189' – 0')**: Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 40 sxs cement and spot a balanced plug from 189' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to

circulate cement to surface filling the casing from 189' and the annulus from the squeeze holes to surface. Shut in well and WOC.

6. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. Cut off anchors and clean up location. Restore location per BLM stipulations.

Barnes B 21S

Current

Basin Fruitland Coal

1530' FSL / 1840' FEL Section 13, T-32-N, R-11-W

San Juan County, NM, API #30-045-32473

Today's Date: 10/27/15

Spud: 11/18/04

Comp: 12/01/04

Elev: 6192' GL

13.5" hole

7" TOC circulated to surface

per 2004 sundry

9.625", 32.3#, H-40 @ 139'

Cemented with 157 sxs, circulated

Nacimiento @ 557' *est

Ojo Alamo @ 1874'

Kirtland @ 2031'

Fruitland @ 2560'

2-3/8" tubing at 2916'

(4.7#, J-55, F-Nipple @ 2894'
with rods and pump)

5.5" TOL @ 2591'

7", 23# J-55 Casing set @ 2629'
Cemented with 333 sxs

8.75" hole

Fruitland Coal Perforations:
2664' - 2920'

Pictured Cliffs @ 2922'

6.25" hole

5.5" 15.5# K-55 Liner set from 2591' to 2926'
Cement with sxs cement

TD 2930'

Barnes B 21S
Proposed P&A
Basin Fruitland Coal

1530' FSL / 1840' FEL Section 13, T-32-N, R-11-W

San Juan County, NM, API #30-045-32473

Today's Date: 10/27/15

Spud: 11/18/04

Comp: 12/01/04

Elev: 6192' GL

13.5" hole

Nacimiento @ 557' *est

Ojo Alamo @ 1874'

Kirtland @ 2031'

Fruitland @ 2560'

8.75" hole

Pictured Cliffs @ 2922'

6.25" hole

TD 2930'

Plug #4: 189' – 0'

Class B cement, 40 sxs

7" TOC circulated to surface

per 2004 sundry

9.625", 32.3#, H-40 @ 139'

Cemented with 157 sxs, circulated

Plug #3: 607' – 507'

Class B cement, 29 sxs

Plug #2: 2081' – 1824'

Class B cement, 58 sxs

Set 7" CR @ 2571'

5.5" TOL @ 2591'

7", 23# J-55 Casing set @ 2629'

Cemented with 333 sxs

Fruitland Coal Perforations:
2664' – 2920'

Plug #1: 2920' – 2510'

Class B cement, 100 sxs:

75 below CR and 25

above CR

5.5" 15.5# K-55 Liner set from 2591' to 2926'

Cement with sxs cement

SURFACE USE PLAN OF OPERATIONS WEED MANAGEMENT

A.1. Pre Disturbance Weed Management Procedure and Form

During the onsite inspection, the FFO and operator's representative(s) will survey the proposed action area for noxious weeds listed on the New Mexico Department of Agriculture's A and B list (attached). If no weeds on the A or B list were observed, the FFO will indicate on the standard onsite check list form that no noxious weeds were observed within the proposed project site. If noxious weeds are found, the FFO will fill out the Onsite Noxious Weed form (attached). The FFO representative and the operator's representative will sign the form, and the FFO representative will submit the completed form to the FFO weed coordinator.

The FFO weed coordinator will review the form and analyze the noxious weed issues. The FFO weed coordinator will electronically submit to the operator within 30 days of the onsite, specific requirements and instructions for weed treatments. The requirements and instructions will include the time frame of treatment, approved herbicides that may be used, required documentation to be submitted to the FFO after treatment, and any other site specific instructions that may be applicable. Due to the seasonal nature of effective weed treatment techniques, the operator may be required to treat before ground disturbance, or may be required to treat the area after ground disturbance to avoid unreasonable delays to the operator's drilling program.

A.2. Class A Species

Class A species are currently not present in New Mexico, or have limited distribution. Preventing new infestations of these species and eradicating existing infestations is the highest priority.

Common Name	Scientific Name
Alfombrilla	<i>Drymaria arenariodes</i>
Black henbane	<i>Hyoscyamus niger</i>
Camelthorn	<i>Alhagi psuedalhagi</i>
Canada thistle	<i>Cirsium arvense</i>
Dalmation toadflax	<i>Linaria dalmatica</i>
Diffuse knapweed	<i>Centaurea diffusa</i>
Dyer's woad	<i>Isatis tinctoria</i>
Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Giant salvinia	<i>Salvinia molesta</i>
Hoary cress	<i>Cardaria spp.</i>
Hydrilla	<i>Hydrilla verticillata</i>
Leafy spurge	<i>Euphorbia esula</i>
Oxeye daisy	<i>Leucanthemum vulgare</i>
Parrotfeather	<i>Myriophyllum aquaticum</i>
Purple loosestrife	<i>Lythrum salicaria</i>
Purple starthistle	<i>Centaurea calcitrapa</i>
Ravenna grass	<i>Saccharum ravennae</i>
Scotch thistle	<i>Onopordum acanthium</i>
Spotted knapweed	<i>Centaurea biebersteinii</i>
Yellow starthistle	<i>Centaurea solstitialis</i>
Yellow toadflax	<i>Linaria vulgaris</i>

A.3. Class B Species

Class B species are limited to portions of the state. In areas with severe infestations, management should be designed to contain the infestation and stop any further spread.

Common Name	Scientific Name
African rue	<i>Peganum harmala</i>
Chicory	<i>Cichorium intybus</i>
Halogeton	<i>Halogeton glomeratus</i>
Malta starthistle	<i>Centaurea melitensis</i>
Musk thistle	<i>Carduus nutans</i>
Perennial pepperweed	<i>Lepidium latifolium</i>
Russian knapweed	<i>Acroptilon repens</i>
Poison hemlock	<i>Conium maculatum</i>
Teasel	<i>Dipsacus fullonum</i>
Tree of heaven	<i>Ailanthus altissima</i>

Onsite Noxious Weed Form

If noxious weeds are found during the onsite, fill out form and submit to FFO weed coordinator

Operator BP America Surveyor(s) S. Beebe, BP / S. Moskal, BP / Bob Switzer, BLM

Well Name and Number Barnes B 021 S Date 3/3/2016

Location: Township, Range, Section 23N, 11W, 13

Location of Project NAD 83 Decimal Degrees 1530 FSL 1840 FEL

Class A Noxious Weed – Check Box if Found

<input type="checkbox"/>	Alfombrilla	<input type="checkbox"/>	Diffuse knapweed	<input type="checkbox"/>	Hydrilla	<input type="checkbox"/>	Purple starthistle	<input type="checkbox"/>	Yellow toadflax
<input type="checkbox"/>	Black henbane	<input type="checkbox"/>	Dyer's woad	<input type="checkbox"/>	Leafy spurge	<input type="checkbox"/>	Ravenna grass	<input type="checkbox"/>	
<input type="checkbox"/>	Camelthorn	<input type="checkbox"/>	Eurasian watermilfoil	<input type="checkbox"/>	Oxeye daisy	<input type="checkbox"/>	Scotch thistle	<input type="checkbox"/>	
<input type="checkbox"/>	Canada thistle	<input type="checkbox"/>	Giant salvinia	<input type="checkbox"/>	Parrotfeather	<input type="checkbox"/>	Spotted knapweed	<input type="checkbox"/>	
<input type="checkbox"/>	Dalmation toadflax	<input type="checkbox"/>	Hoary cress	<input type="checkbox"/>	Purple loosestrife	<input type="checkbox"/>	Yellow starthistle	<input type="checkbox"/>	

Class B Noxious Weed – Check Box if Found

<input type="checkbox"/>	African rue	<input type="checkbox"/>	Perennial pepperweed	<input type="checkbox"/>	Russian knapweed	<input type="checkbox"/>	Tree of heaven
<input type="checkbox"/>	Chicory	<input type="checkbox"/>	Musk thistle	<input type="checkbox"/>	Poison hemlock	<input type="checkbox"/>	
<input type="checkbox"/>	Halogeton	<input type="checkbox"/>	Malta starthistle	<input type="checkbox"/>	Teasel	<input type="checkbox"/>	

Comments:

☒ No Noxious Weeds identified during site inspection.

FFO Representative: _____

sign and date

Operator Representative _____

sign and date

sabre.beebe@bp.com

Digitally signed by sabre.beebe@bp.com
DN: cn=sabre.beebe@bp.com
Date: 2016.03.08 11:57:03 -0700














BARNES B 009A-MV

API# 3004522756

FEDERAL LEASE# NMSF078039

NW/4 SE/4 1J1 S.13-T32N-R11W

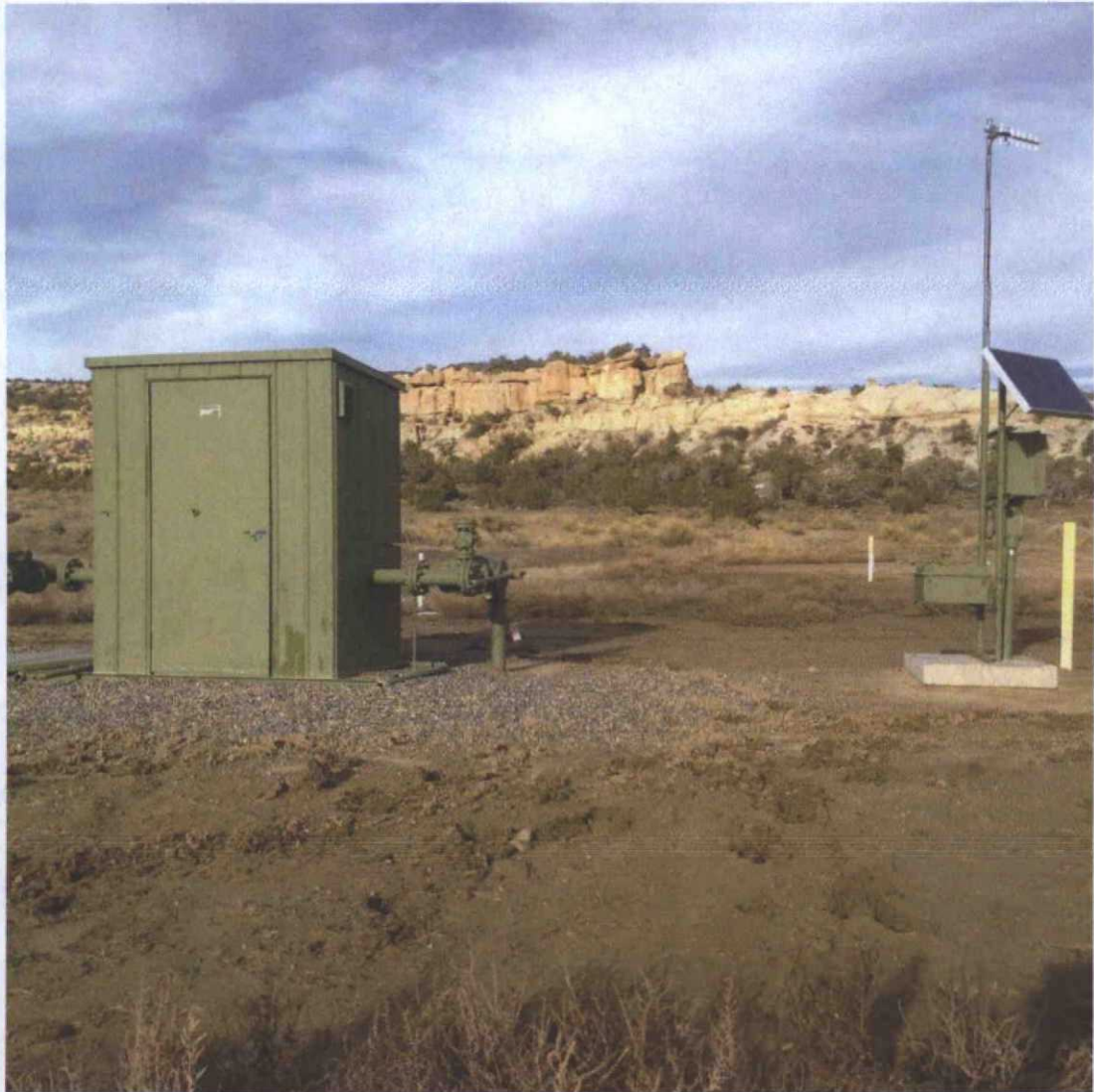
SAN JUAN COUNTY ELEV 6265

BP AMERICA PRODUCTION COMPANY

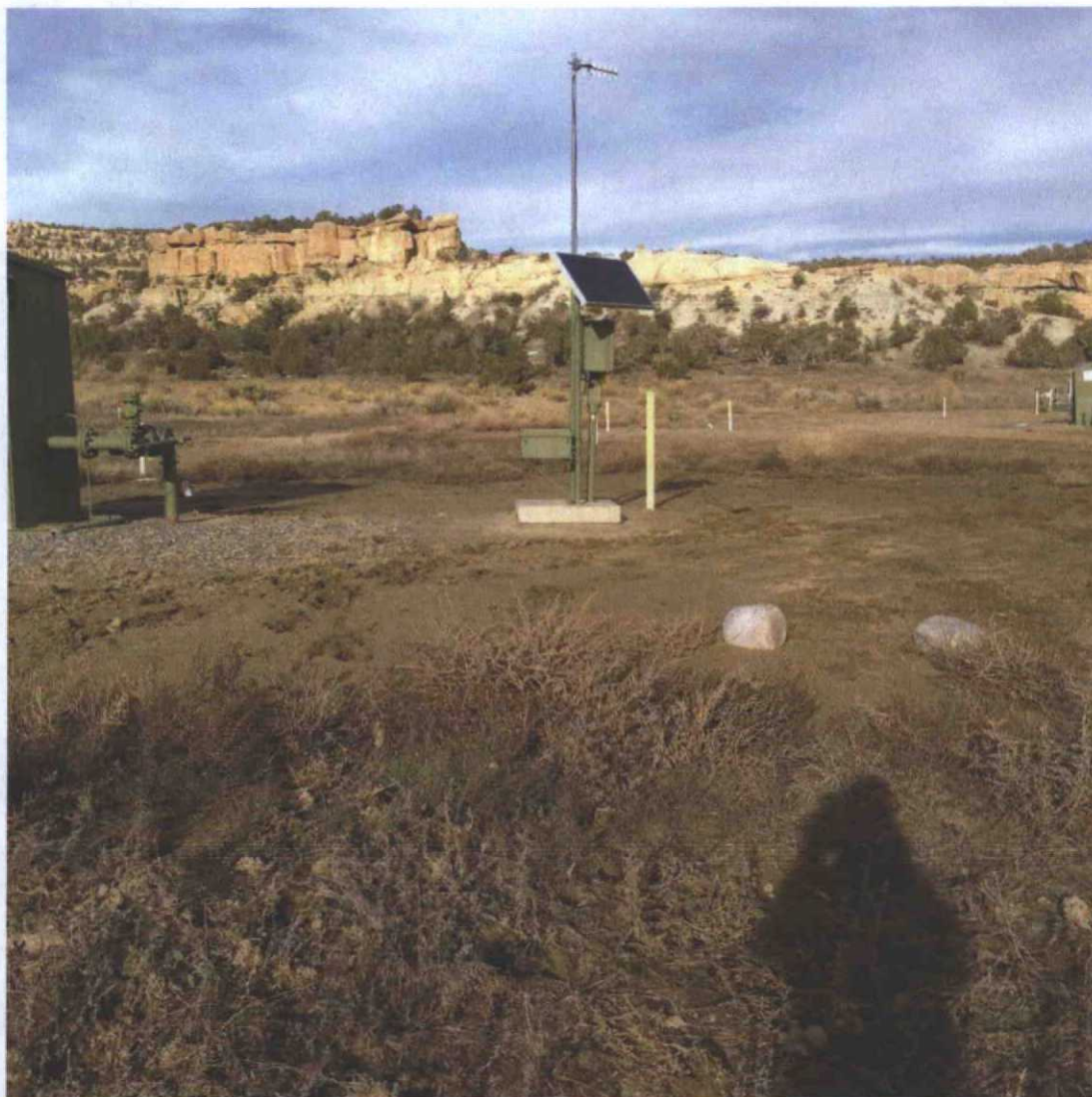
LAT 36.98171 LONG 107.93882





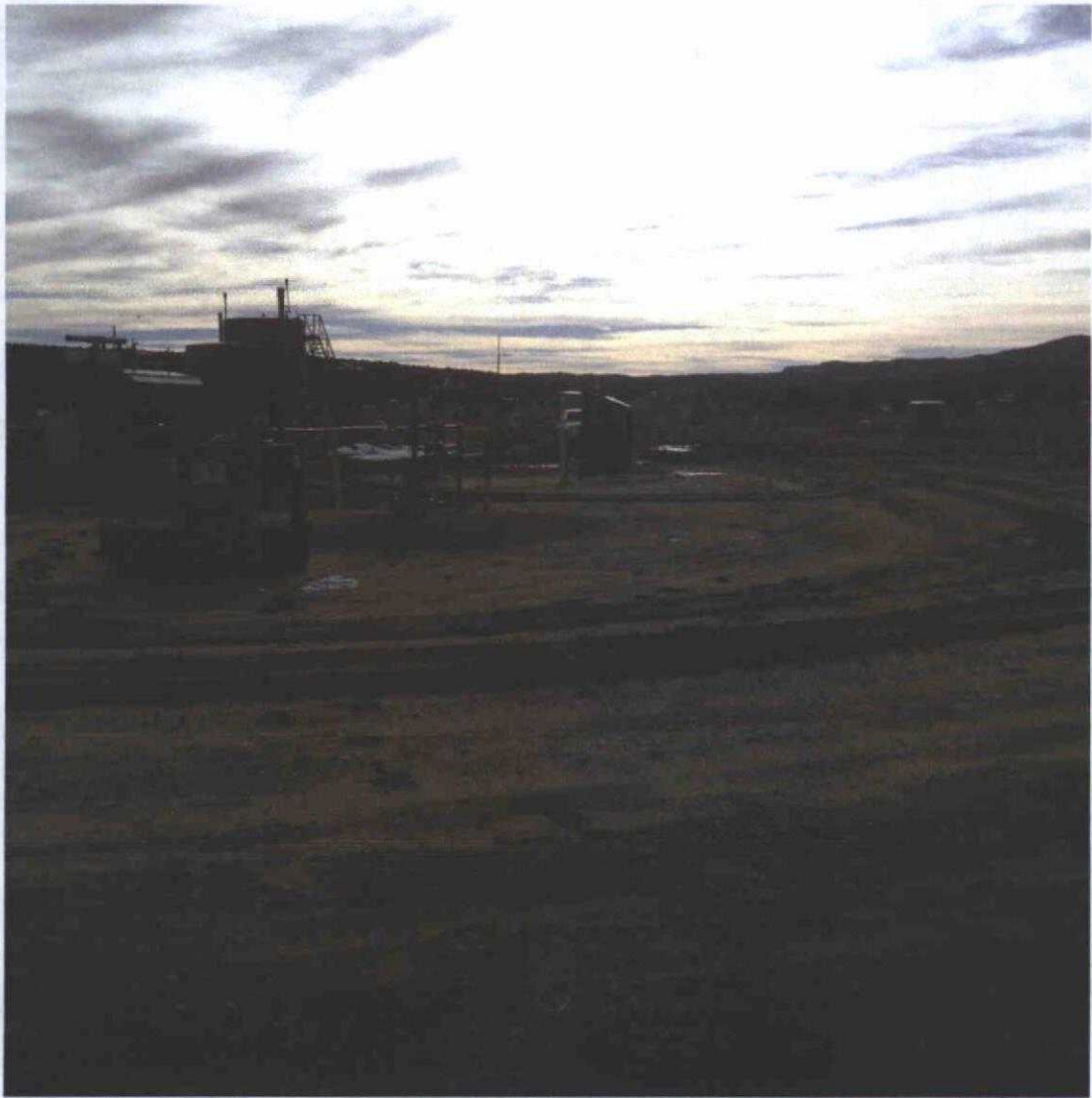




















P&A Field Inspection Sheet

Date: 3/3/2016		Specialist: S. Beebe, BP, S. Moskal BP & R. Switzer BLM	
Operator: BP America		Well Name & Number: Barnes B 021 S	
API Number: 30-045-32473		Section: 13	Township: 23N Range: 11W
Lease Number: NMSF078039		Footage: 1530 FSL 1840 FEL	
		County: San Juan	State: NM
Surface:	BLM <input checked="" type="checkbox"/> BOR <input type="checkbox"/> State <input type="checkbox"/>	Twinned:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Well Pad

Topography: Flat graze land	Stockpile Topsoil	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Soil Type: Sand and Silty			
Vegetation Community: Grasslands/Sage brush			
1			
2			
3			
4			
5			
6			
7			
8			
9			

Vegetation Cages: ☐ Yes ☒ No

Facilities on Location: ☒ Tanks ☒ Meter Runs ☒ Separators ☒ Compressor ☐ Day Tanks ☐ Pipeline riser

Gravel Present: ☒ Yes ☐ No Bury ☐ Yes ☒ No Main Road: To remain in service of the Barnes B 009A

Steel Pits: Above Grade / Below Grade: Where on Location:

2 above grade tanks and 1 below grade tank that will remain in service of the Barnes B 009A

Cathodic Groundbed on location: ☒ Yes ☐ No

In Service: ☒ Yes ☐ No Abandoned: ☐ Yes ☒ No Plugged: ☐ Yes ☒ No

Remove Wire ☐ Remove Rectifier ☐

Trash on location: ☐ Yes ☒ No Power Poles: ☒ Yes ☐ No Remove Power Poles: ☐ Yes ☒ No

Construction Diversion Ditch: ☐ Above ☐ Below ☒ Around

Side draining	Contaminated Soil: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Side draining	Remove: <input type="checkbox"/> Yes, where on location:

Construction Silt Trap(s): N/A

Re-Contour Disturbed Areas to Natural Terrain: ☐ Yes ☒ No

Special Features: Co-located well with the Barnes B 009A which is an active well

Location & Access Barricade: ☐ Yes ☒ No / How:

Construction Comments / Concerns: Equipment stripping will be only reclamation as this is a co-located site and final reclamation will shift the active well

Access Road

Access Length: Remediation Methods: ☐ Rip ☐ Disk ☐ Water Bars ☐ Re-establish Drainages

Other:

Access Condition: ☐ Below Grade ☐ Above Grade ☒ Other: Level with grade

Culverts: ☐ Yes ☒ No Cattle Guard: ☐ Yes ☒ No Reconstruct Fence: ☐ Yes ☒ No Surface Material: ☐ Yes ☒ No

What to do with Material	
Road Comments/Concerns	

This location is a dual well pad and the Barnes B 021S is co-located with the Barnes B 009A well which will remain active. Therefore the equipment belonging to the Barnes B 021S will be stripped and the final reclamation will be shifted to the Barnes B 009A (active well) upon plugging of that well.

Well name and no: Barnes B 021S
API No. 30-045-32473

Plugging & Abandonment Surface Reclamation Plan

Operator:	BP America	Location:	Sec. 13, Twn: 23N, Range 11W
Well name & No:	Barnes B 021 S	County, State:	San Juan County, NM
API No:	30-045-32473	Revision:	0
Surface:	BLM		
Date:	03/03/2016		

This document outlines the final reclamation plan for the BARNES B 021S well site, API 30-045-32473, based on the BLM/BP on-site inspection conducted on 03/03/2016 and in accordance with Onshore Order No. 1 and the FFO Bare Soil Reclamation Procedures C (dated 2/2013).

PROPOSED VEGETATION RECLAMATION PLAN

General Notes:

- BP will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.
- BP will notify the BLM forty-eight (48) hours prior to commencing earthwork.
- BP will notify the Authorized Officer forty-eight (48) hours prior to commencing with seed application.
- All underground production piping on the well site will be removed or abandoned-in-place.
- BP power poles, rectifier and/or radio equipment will not be removed from the site as they are still in service of the Barnes B 009A. No power poles on the BARNES B 021S identified during site visit.
- All rig anchors for the Barnes B 021S found on location will be removed.
- No ground disturbance will be performed for the Barnes B 021S with exception of work needed to remove surface equipment as this is a dual well pad with an active well.
- All surface equipment identified on location at time of P&A will be removed from location.
- All trash, if any, will be removed from location.
- The P&A marker will be permanent and comply with all NMOCD regulations.

Well Site Reclamation:

(Note: some steps may occur in a different sequence than listed below)

- This locations reclamation will shift to the active well Barnes B 009A which will be remaining on the well site.
- Mature, healthy vegetation on the site perimeter will be left intact to the extent possible to achieve contour.
- Natural drainage patterns will be established when possible and practical. Additional means for ensuring proper drainage, such as water bars or diversion ditches, may be employed. The natural drainage patterns already in existence will be maintained and enhanced with the fill material on site.

Access Road Reclamation:

Well name and no: Barnes B 021S
API No. 30-045-32473

There is one road into this location which will not be reclaimed as it will remain in service until such time that the active well on location is plugged and abandoned as well.

Re-vegetation:

There will be no seeding and revegetation as no reclamation can take place due to the active well on location which is the Barnes B 009A.

Species of seed	Pound/Acre (PLS)
N/A	

Weed Management: Will be the responsibility of the active operations that remain on site (Barnes B 009A)

Monitoring:

Attachments:

- Reference photos of location taken on February 25, 2016.
- P&A Field Inspection Sheet performed on March 3, 2016.
- Aerial of location with short description of reclamation plan.

Well name and no: Barnes B 021S
API No. 30-045-32473

Onsite Noxious Weed Form

If noxious weeds are found during the onsite, fill out and submit to FFO weed coordinator.

Operator: BP America Surveyor(s): Steve Moskal (BP), Sabre Beebe (BP) and Bob Switzer (BLM)

Well Name and Number BARNES B 021S Date: March 3, 2016

Location: Township 23N Range 11W Section 13

Location of Project NAD 83 Decimal Degrees 1530 FSL, 1840 FEL

Class A Noxious Weed – Check Box if Found

Alfombrilla	Diffuse knapweed	Hydrilla	Purple Starthistle	Yellow toadflax
Black henbane	Dyer's woad	Leafy spurge	Ravenna grass	
Camelthorn	Eurasian watermilfoil	Oxeye daisy	Scotch thistle	
Canada thistle	Giant salvinia	Parrotfeather	Spotted knapweed	
Dalmation toadflax	Hoary cress	Purple loosestrife	Yellow starthistle	

Class B Noxious Weed – Check Box if Found

African rue	Perennial pepperweed	Russian knapweed	Tree of heaven
Chicory	Musk thistle	Poison hemlock	
Halogeton	Malta starthistle	Teasel	

☒ **No weeds identified at time of on site**

Comments:

FFO Representative: _____
Sign and date

Operator Representative: _____
Sign and date

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: Barnes B 21 S

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a) Bring the top of plug #1 to **2456 ft.** to cover the Fruitland top. **BLM picks top of Fruitland at 2506 ft.** Adjust cement volume accordingly.
 - b) Set plug #2 **(1282-1182) ft.** to cover the Kirtland top. **BLM picks top of Kirtland at 1232 ft.**

Ojo Alamo is not present or recognizable in the area of this well.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.