

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 11/12/2019

Well information:

30-045-24869 GALLEGOS CANYON UNIT COM H #180E
BP AMERICA PRODUCTION COMPANY

Application Type:

P&A Drilling/Casing Change Location Change

Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84; Submit Gas Capture Plan form prior to spudding or initiating recompletion operations)

Other:

Conditions of Approval:

- Notify NMOCD 24 Hours prior to commencing activities
- In addition to the BLM-approved plugs, include:
 1. Ensure coverage 4962' – 4862.' OCD Gallup pick @ 4910.'
 2. Extend the Mancos plug 4055' – 3955.' OCD Mancos pick @ 4005.'
 3. Include Chacra plug 2270' – 2170.' OCD Chacra pick @ 2220.'

NMOCD Approved by Signature

4/30/20
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.
NMSF078209B

6. If Indian, Allottee or Tribe Name
EASTERN NAVAJO

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.
892000844F

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
GALLEGOS CANYON UNIT 180E

2. Name of Operator
BP AMERICA PRODUCTION CO

Contact: PATTI CAMPBELL
E-Mail: patti.campbell@bpx.com

9. API Well No.
30-045-24869-00-C1

3a. Address
1199 MAIN AVE SUITE 101
DURANGO, CO 81301

3b. Phone No. (include area code)
Ph: 970-712-5997

10. Field and Pool or Exploratory Area
BASIN DAKOTA
GALLEGOS GALLUP

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

Sec 28 T29N R12W SESW 0810FSL 1530FWL
36.692510 N Lat, 108.107830 W Lon

11. County or Parish, State

SAN JUAN COUNTY, NM

12. CHECK THE 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"/> Hydraulic Fracturing	<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 recomplete 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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 requests to P&A the subject well. Please see the attached P&A procedure, wellbore diagram, and 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.

OCD Received
4/20/2020

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

**Electronic Submission #492133 verified by the BLM Well Information System
For BP AMERICA PRODUCTION CO, sent to the Farmington
Committed to AFMSS for processing by JOHN HOFFMAN on 11/13/2019 (20JH0061SE)**

Name (Printed/Typed) PATTI CAMPBELL Title REGULATORY ANALYST

Signature (Electronic Submission) Date 11/12/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JOHN HOFFMAN Title PETROLEUM ENGINEER Date 04/16/2020

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.

AV

Revisions to Operator-Submitted EC Data for Sundry Notice #492133

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	ABD NOI	ABD NOI
Lease:	NMSF078209B	NMSF078209B
Agreement:		892000844F (NMNM78391C)
Operator:	BP AMERICA PRODUCTION COMPANY 1199 MAIN AVE, SUITE 101 DURANGO, CO 81301 Ph: 970-712-5997	BP AMERICA PRODUCTION CO 1199 MAIN AVE SUITE 101 DURANGO, CO 81301
Admin Contact:	PATTI CAMPBELL REGULATORY ANALYST E-Mail: patti.campbell@bpx.com Ph: 970-712-5997	PATTI CAMPBELL REGULATORY ANALYST E-Mail: patti.campbell@bpx.com Ph: 970-712-5997
Tech Contact:	PATTI CAMPBELL REGULATORY ANALYST E-Mail: patti.campbell@bpx.com Ph: 970-712-5997	PATTI CAMPBELL REGULATORY ANALYST E-Mail: patti.campbell@bpx.com Ph: 970-712-5997
Location:		
State:	NM	NM
County:	SAN JUAN COUNTY	SAN JUAN
Field/Pool:	BASIN DK/GALLEGOS GALLUP	BASIN DAKOTA GALLEGOS GALLUP
Well/Facility:	GALLEGOS CANYON UNIT COM H 180E Sec 28 T29N R12W Mer NMP SESW 810FSL 1530FWL	GALLEGOS CANYON UNIT 180E Sec 28 T29N R12W SESW 0810FSL 1530FWL 36.692510 N Lat, 108.107830 W Lon

**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: GCU Com H 180E API: 30-045-24869

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the "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. Plug #1 requires a cement retainer to be set at 5732'. (This retainer appears on the WBD but not in the procedure.) Pump 20 sacks of cement below the retainer and 10 sx on top of the retainer.
4. Plug #2 requires 40 sacks of cement below the cement retainer set at 4864' and 10 sacks of cement on top of the retainer.
5. Plug #3 is required to be moved to 4055'-3905'. Adjust cement volume as necessary.
6. Plug #6 is required to be enlarged to cover 1298'-855'. Adjust cement volume as necessary.

BP America

Plug And Abandonment Procedure

GCU Com H 180E

810' FSL & 1530' FWL, Section 28, T29N, R12W

San Juan County, NM / API 30-045-24869

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam.
2. Check casing, tubing, and bradenhead pressures.
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP.
5. P/U 5 ½" bit or casing scraper on 2-3/8" work string and round trip as deep as possible above top perforation at 5782'.
6. P/U 5 ½" CR, TIH and set CR at +/- 5732'. Pressure test tubing to 1000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. If casing does not test, then spot or tag subsequent plugs as appropriate. POOH w/ tubing.
7. Rig up to pump cement down tubing. Pump water to establish rate down tubing.

NOTE: All Plugs Include 100% excess outside casing and 50% Excess inside casing

8. Plug 1 (Dakota Perforations and Formation Top 5732'-5670', 8 Sacks Class G Cement)

Mix 8 sx Class G cement and spot a balanced plug inside casing to cover the Dakota perforations and formation top.

9. Plug 2 (Gallup Formation Top 4864'-4813', 6 Sacks Class G Cement)

P/U 5 ½" CR, TIH and set at 4864'. Mix 6 sx Class G cement and spot a balanced plug inside casing to cover the Gallup formation top.

10. Plug 3 (Mancos Formation Top 4310'-4160', 18 Sacks Class G Cement)

Mix 18 sx Class G cement and spot a balanced plug inside casing to cover the Mancos formation top.

11. Plug 4 (Mesa Verde(Point Lookout) Formation Top 3722'-3572', 18 Sacks Class G Cement)

Mix 18 sx Class G cement and spot a balanced plug inside casing to cover the Mesa Verde(Point Lookout) formation top.

12. Plug 5 (Mesa Verde(Menefee, Cliff House) and Chacra Formation Tops 3195'-2600', 68 Sacks Class G Cement)

Mix 68 sx Class G cement and spot a balanced plug inside casing to cover the Mesa Verde(Menefee, Cliff House) and Chacra formation tops.

13. Plug 6 (Pictured Cliffs Formation Top 1298'-1148', 18 Sacks Class G Cement)

Mix 18 sx Class G cement and spot a balanced plug inside casing to cover the Pictured Cliffs formation top.

14. Plug 7 (Fruitland Formation Top 700'-550', 54 Sacks Class G Cement(Squeeze 36 sx))

RIH and perforate squeeze holes at 700'. Establish injection rate into squeeze holes. RIH with 5-1/2" CR and set at 650'. Mix 54 sx Class G cement. Squeeze 36 sx outside casing leaving 18 sx inside casing to cover the Fruitland formation top.

15. Plug 8 (Surface Shoe and Surface 380'-surface, 120 Sacks Class G Cement)

Attempt to pressure test the bradenhead annulus to 300 psi; note the volume to load. If BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 120 sx cement and spot a balanced plug from 380' to surface, circulate good cement out of casing valve. TOH and LD tubing. Shut well in and WOC. If BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 380' and the annulus from the squeeze holes to surface. Shut in well and WOC.

16. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and restore location per BLM stipulations.

Wellbore Diagram

GCU Com H 180E

API #: 3004524869

San Juan County, New Mexico

Plug 8

380 feet - Surface

380 feet plug

120 sacks of Class G Cement

Plug 7

700 feet - 550 feet

150 feet plug

54 sacks of Class G Cement

36 sacks squeezed

Plug 6

1298 feet - 1148 feet

150 feet plug

18 sacks of Class G Cement

Plug 5

3195 feet - 2600 feet

595 feet plug

68 sacks of Class G Cement

Plug 4

3722 feet - 3572 feet

150 feet plug

18 sacks of Class G Cement

Plug 3

4310 feet - 4160 feet

150 feet plug

18 sacks of Class G Cement

Plug 2

4864 feet - 4813 feet

51 feet plug

6 sacks of Class G Cement

Plug 1

5732 feet - 5670 feet

62 feet plug

8 sacks of Class G Cement

Surface Casing

8.625" 24# @ 330 ft

Retainer @ 650 feet

Formation

Fruitland - 650 ft

Pictured Cliffs - 1248 ft

Lewis - 1355 ft

Cliff House - 2900 ft

Menefee - 3145 ft

Point Lookout - 3672 ft

Gallup - 4913 ft

Greenhorn - 5678 ft

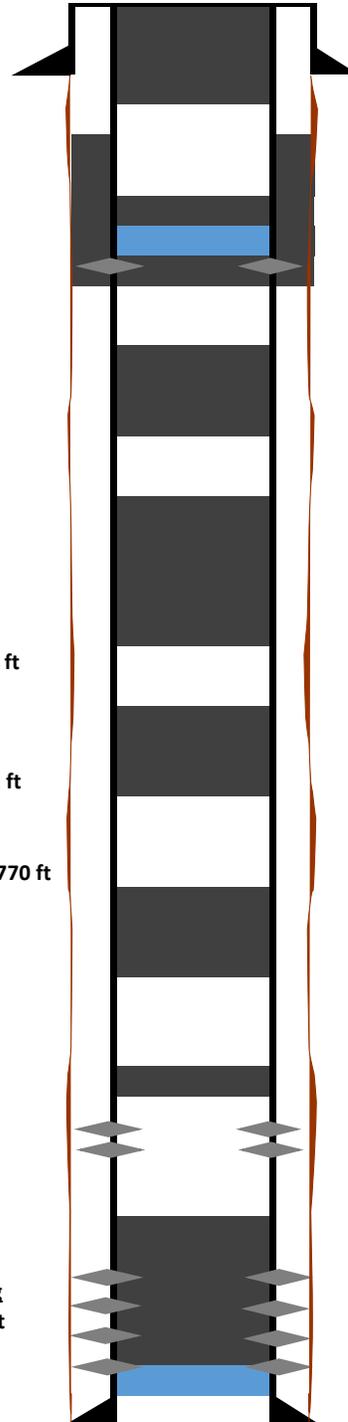
Graneros-Dakota - 5770 ft

Dakota - 5855 ft

Production Casing

5.5" 17# @ 5980 ft

Retainer @ 5732 feet



**BLM FLUID MINERALS
Geologic Report**

Date Completed: 4/16/2020

Well No. GCU Com H #180E (API# 30-045-24869)	Location	810	FSL	&	1530	FWL
Lease No. NMSF-078209B	Sec. 28	T29N			R12W	
Operator BP America Production Company	County	San Juan		State	New Mexico	
Total Depth 5980	PBTD 5935	Formation Dakota/Gallup (commingled)				
Elevation (GL) 5322	Elevation (KB) 5335					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm					Fresh water sands (probable)
Ojo Alamo Ss	Surface	104			Aquifer (fresh water probable)
Kirtland Shale	104			955	
Fruitland Fm			955	1248	Coal/Gas/Possible water
Pictured Cliffs Ss			1248	1395	Gas
Lewis Shale			1395	2221	
Chacra			2221	2900	
Cliff House Ss			2790	3147	Water/Possible gas
Menefee Fm			3147	3672	Coal/Ss/Water/Possible O&G
Point Lookout Ss			3672	4005	Probable water/Possible O&G
Mancos Shale			4005	4912	
Gallup			4912	5780	O&G/Water
Graneros Shale			5740	5855	
Dakota Ss			5855	PBTD	O&G/Water

Remarks:

P & A

- BLM geologist's picks for the top of the Fruitland, Lewis, Chacra, Cliff House, Mancos, and Graneros Formations vary from operator's picks.
- Adjust plugs as detailed in the COAs attached to the Sundry NOI.
- Log analysis of reference well #2 (attached worksheet) indicates the Ojo Alamo sands investigated are likely to contain fresh water ($\leq 5,000$ ppm TDS). These fresh water sands are protected behind the surface casing and are adequately covered by the proposed surface plug.

Reference Well:

1) Same

Fm. Tops

3) BP America Prod. Co.
GCU #151
1745' FNL, 1565' FWL
Sec. 21, T29N, R12W
GL 5627' KB 5639'

Water
Analysis

Prepared by: Chris Wenman