

State of New Mexico  
Energy, Minerals and Natural Resources Department

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, 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: 1/29/14

Application Type:

- P&A**   
  Drilling/Casing Change   
  Recomplete/DHC  
 Location Change   
  Other: \_\_\_\_\_

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	WE
30-045-24735-00-00	GALLEGOS CANYON UNIT	328	BP AMERICA PRODUCTION COMPANY	S	A	San Juan	N	N	33	29	N	12	W

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations

Perform an MIT across the plugged interval after cementing to verify integrity.

\_\_\_\_\_  
NMOCD Approved by Signature

2-13-14  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.*

**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. I149IND8486
2. Name of Operator BP AMERICA PRODUCTION CO Contact: TOYA COLVIN E-Mail: Toya.Colvin@bp.com		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
3a. Address 200 ENERGY COURT FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 281-366-7148	7. If Unit or CA/Agreement, Name and/or No. 892000844I
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 33 T29N R12W SESW 1070FSL 1520FWL 36.678450 N Lat, 108.107570 W Lon		8. Well Name and No. GALLEGOS CANYON UNIT 328
		9. API Well No. 30-045-24735-00-D2
		10. Field and Pool, or Exploratory BLANCO MESAVERDE N PINON FRUITLAND SAND
		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 type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" 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 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.)

BP America Production Company requests permission to plug back the Pinon Fruitland Sand formation of the subject well, then continue to use well as a SWD. Please see attached procedure with wellbore schematics.

RCVD FEB 3 '14  
OIL CONS. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #233703 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 01/30/2014 (14SXM1629SE)</b>	
Name (Printed/Typed) TOYA COLVIN	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/29/2014

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

Approved By <u>STEPHEN MASON</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>01/30/2014</u>
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 <u>Farmington</u>

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 \*\***



## BP - San Juan Wellwork Procedure

**GCU 328**  
**30-045-24735**

Unit letter N SEC. 33, T29NN, R12WW  
1070' FSL, 1520' FWL  
San Juan, NM  
Pinon Fruitland Sand Formation

### **Basic Job Procedure**

1. Pull short tubing string
2. Pull long tubing string
3. Set retrievable bridge plug to isolate below Fruitland Sand
4. Test bridge plug
5. Cement squeeze Fruitland Sand perforations from 1302'-1052'
6. Pull retrievable bridge plug
7. Pull packer set @ 2805'
8. RIH and set new packer approximately 50' above uppermost injection perforation
9. Re-establish well as Mesa Verde disposal
10. RDMO service unit

### Current Wellbore Diagram



**GCU 328**  
 SWD/FS  
 API # 30-045-2473500  
 Unit N Sec 33 Twn 29N Rge 12W  
 San Juan County, NM

**Well History**

1/5/1981: Spud  
 2/5/1981: Completed  
 3/13/1999: Cleanout Fruitland Sand, & Replace Injection Tubing  
 1/21/2002: Acidize Mesa Verde Perfs  
 9/9/03: Treated w/ 500 gals Xylene, 2000 gals 15% HCl, 500 gals Xylene.  
 9/27/07: Treated w/ 500 gals Xylene, 2500 gals 15% HCl acid, 500 gals Xylene. Displaced with 12 bbls produced water.  
 7/23/08: Wellhead flange had leak. Flowed MV water to tank. Set downhole cement retainers in MV string. Repaired wellhead seals.  
 8/7/08: Acidized with 1250 gals 15% HCl, flushed with 11 bbls. Flushed with another 40 bbls.  
 2/2/09: Acidized with 1250 gals 15% HCl, flushed with 11 bbls fresh water. Followed with another 1250 gals 15% HCl and 11 bbls water. Flushed with 40 bbls fresh water.

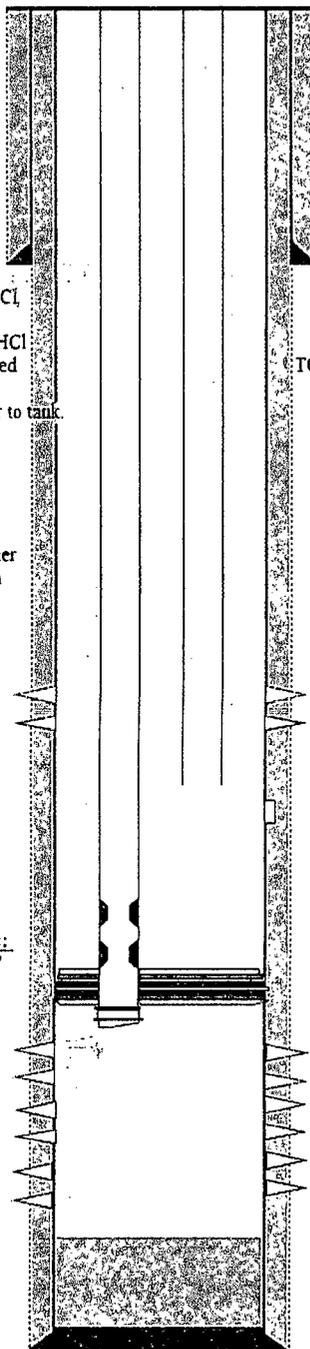
**Formation Tops**

Fruitland Formation 1030'  
 Pictured Cliffs Formation 1288'  
 Cliffhouse Formation 2834'  
 Mancos Formation 4020'

**Injection Tubing Details:**

2-3/8" J-55 poly-lined long string @ 2805'

GL 5394'  
KB: 13'



TOC: Circulated to surface

**Surface Casing Data**

9-5/8", 32.4ppf @ 277'  
 w/ 275 sxs  
 nmt to surface

TOC: Surface. Had good returns

**Pinon Fruitland Sand Perfs**

1033' - 1052'  
 Frac'ed w/ 30,000 gal 70 Q foam 33,000 #s sand

**Production Tubing Details:**

2-3/8", 4.7ppf, J-55 short string @ 1045'

DV tool @ 1564'

Baker Hughes Model "N" W/L set cement retainer pump thru plug set @ 2782'

Baker Hughes Model "N" W/L set cement retainer pump thru plug set @ 2792'

Baker Retrieva D Paker @ 2805'

**Mesaverde Perforations**

2852-3797' (419 holes total)  
 Max Operating Injection Pressure = 1000 psi per original Step Rate

Tagged fill at 3851' GL. (7/2008)

**Production Casing Data**

8 3/4" hole  
 7", 23ppf, K-55 @ 4085'  
 Stage 1: 600 sx  
 Stage 2: 400 sx

PBTD = 4055'  
4085'

**Proposed Wellbore Diagram**



**GCU 328**  
 SWD  
 API # 30-045-2473500  
 Unit N Sec 33 Twn 29N Rge 12W  
 San Juan County, NM

**Well History**

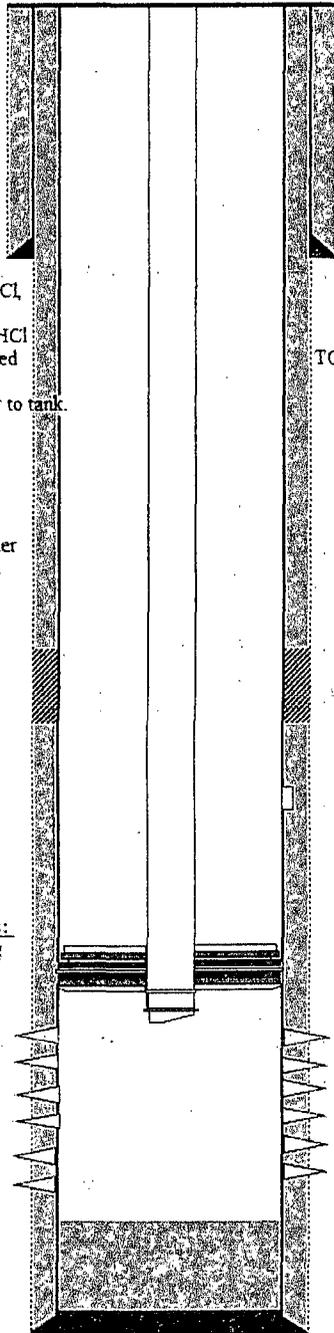
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 7/22/08: Wellhead flange had leak. Flowed MV water to tank. Set downhole cement retainers in MV string. Repaired wellhead seals.  
 8/7/08: Acidized with 1250 gals 15% HCl, flushed with 11 bbls. Flushed with another 40 bbls.  
 2/2/09: Acidized with 1250 gals 15% HCl, flushed with 11 bbls fresh water. Followed with another 1250 gals 15% HCL and 11 bbls water. Flushed with 40 bbls fresh water.

**Formation Tops**

Fruitland Formation 1030'  
 Pictured Cliffs Formation 1288'  
 Cliffhouse Formation 2834'  
 Mancos Formation 4020'

**Injection Tubing Details:**  
 2-3/8" J-55 poly-lined tubing

GL 5394'  
 KB: 13'



TOC: Circulated to surface

**Surface Casing Data**

9-5/8", 32.4ppf @ 277'  
 w/ 275 sxs  
 cmt to surface

TOC: Surface. Had good returns

**Pinon Fruitland Sand Perfs**

Abandoned - Cement squeezed and pressure tested

DV tool @ 1564'

Packer Set approximately 50' above uppermost injection perforation

**Mesaverde Perforations**

2852-3797' (419 holes total)

**Production Casing Data**

8 3/4" hole  
 7", 23ppf, K-55 @ 4085'  
 Stage 1: 600 sx  
 Stage 2: 400 sx

PBTD = 4055'  
 4085'

District I - (575) 397-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-045-24735
5. Indicate Type of Lease STATE [ ] FEE [ ]
6. State Oil & Gas Lease No. Navajo Lease
7. Lease Name or Unit Agreement Name Gallegos Canyon Unit
8. Well Number 328
9. OGRID Number 000778
10. Pool name or Wildcat Pinon Fruitland Sand, North

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [ ] Gas Well [ ] Other [X]
2. Name of Operator BP America Production Company
3. Address of Operator 501 Westlake Park Blvd. Houston, TX 77079
4. Well Location Unit Letter N : 1070 feet from the South line and 1520 feet from the West line
Section 33 Township 29N Range 12W NMPM County San Juan
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5394'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [ ] PLUG AND ABANDON [ ]
TEMPORARILY ABANDON [ ] CHANGE PLANS [ ]
PULL OR ALTER CASING [ ] MULTIPLE COMPL [ ]
DOWNHOLE COMMINGLE [ ]
CLOSED-LOOP SYSTEM [X]
OTHER: [ ]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [ ] ALTERING CASING [ ]
COMMENCE DRILLING OPNS. [ ] P AND A [ ]
CASING/CEMENT JOB [ ]
OTHER: [ ]

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

BP America Production Company would like to include in our plug back NOI for the subject well that we will use a Closed-Loop System during plug back operations.

BLM notified via 3160-5 form

See attached Requirements on form 3160-5 closed loop BP notification only

RCVD FEB 3 '14 OIL CONS. DIV. DIST. 3

Spud Date:

01/05/1981

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Toya Colvin TITLE Regulatory Analyst DATE 01/29/2014

Type or print name Toya Colvin E-mail address: Toya.Colvin@bp.com PHONE: 281-366-7148

For State Use Only

APPROVED BY: TITLE DATE

Conditions of Approval (if any):