

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-045-24171
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Gallegos Canyon Unit
8. Well Number 188E
9. OGRID Number 000778
10. Pool name or Wildcat Basin Dakota

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

2. Name of Operator
BP America Production Company- L48

3. Address of Operator
1515 Arapahoe St, Tower 1, Suite 700
Denver, CO 80202

4. Well Location

Unit Letter B : 790 feet from the North line and 1620 feet from the East line
Section 30 Township 29N Range 12W NMPM San Juan County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
5304'

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 ☐
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.

Please see the attached P&A operations performed on the subject well January- February 2018.

Spud Date: 04/02/1980
Approved for plugging of wellbore only.
Liability under bond is retained pending
Receipt of C-103 (Subsequent Report of Well
Plugging) which may be found @ OCD web
page under forms
www.emnrd.state.us/oed

NMOC

MAR 12 2018

DISTRICT III

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 03/05/2018

Type or print name Toya Colvin E-mail address: Toya.Colvin@bp.com PHONE: 281-892-5369

For State Use Only

APPROVED BY: Bob Bell TITLE Deputy Oil & Gas Inspector,
District #3 DATE 3/29/18
Conditions of Approval (if any): AV

BP America

Plug And Abandonment End Of Well Report

GCU 188E

790' FNL & 1620' FEL, Section 30, T29N, R12W

San Juan County, NM / API 30-045-24171

Work Summary:

- 1/29/18** Made BLM, and NMOCD P&A operations notifications at 11:00 AM MST.
- 1/30/18** MOL and R/U P&A unit. Checked well pressures: Tubing: 25 psi, Casing: 400 psi, Bradenhead: 155 psi. Bled down well. N/D wellhead and N/U BOP and function tested. TOH tallying workstring. L/D BHA and P/U casing scraper. Round tripped casing scraper above top perforation at 5722'. Shut-in well for the day.
- 1/31/18** Checked well pressures: Tubing 0 psi, Casing: 50 psi, Bradenhead: 70 psi. Bled down well. R/U High Tech Services and performed 21-day BOP test. TIH with CR and set at 5688'. Tested tubing to 1000 psi in which it successfully held pressure. Stung out of CR and circulated hole clean with 80 bbl of fresh water. Tested casing to 800 psi in which it failed to hold pressure. TOH and R/U wireline services. Ran CBL from CR at 5688' to surface. CBL was sent to NMOCD office for review. CBL results indicated good cement from 5688' to 600'. TIH and R/U cementing services. Pumped **Plug #1**: (Dakota Perforations and Formation Top 5688'-5517', 15 Sacks Class G Cement) Mixed 15 sx Class G cement and spotted a balanced plug to cover Dakota perforations and formation top. Shut-in well for the day. WOC overnight. Jonathan Kelly was NMOCD inspector on location.
- 2/1/18** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 60 psi. Bled down well. TIH and tagged cement plug #1 top at 5517'. P/U to 4904' to pump plug #2 and found that tubing was plugged. Swabbed down tubing and TOH. L/D 8 joints of plugged tubing.

Replaced 8 joints of tubing and adjusted pipe tally. TIH and pumped **Plug #2:** (Gallup Formation Top 4904'-4702', 16 Sacks Class G Cement) Mixed 16 sx Class G cement and spotted a balanced plug to cover Gallup formation top. Shut-in well for the day. WOC overnight. Jonathan Kelly was NMOCD inspector on location.

2/2/18 Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 35 psi. Bled down well. TIH and tagged plug #2 top at 4702'. Pressure tested casing to 800 psi in which it failed to hold pressure. Pumped **Plug #3:** (Mancos Formation Top 3994'-3800', 15 Sacks Class G Cement) Mixed 15 sx Class G cement and spotted a balanced plug to cover Mancos formation top. WOC 4 hours. TIH and tagged plug #3 top at 3800'. Pressure tested casing to 800 psi in which it failed to hold pressure. R/U cementing services and pumped **Plug #4:** (Mesa Verde Formation Top 2928'-2770', 15 Sacks Class G Cement) Mixed 15 sx Class G cement and spotted a balanced plug to cover Mesa Verde formation top. Shut-in well for the day. WOC overnight. Jonathan Kelly was NMOCD inspector on location.

2/5/18 Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 100 psi. Bled down well. TIH and tagged plug #4 top at 2770'. Pressure tested casing to 800 psi in which it failed to hold pressure. Pumped **Plug #5:** (Chacra Formation Top 2214'-2024', 15 Sacks Class G Cement) Mixed 15 sx Class G cement and spotted a balanced plug to cover Chacra formation top. WOC 4 hours. TIH and tagged plug #5 top at 2024'. Pressure tested casing to 800 psi in which it failed to hold pressure. R/U cementing services and pumped **Plug #6:** (Pictured Cliffs and Fruitland Formation Tops 1242'-804', 35 Sacks Class G Cement) Mixed 35 sx of Class G cement and spotted a balanced plug to cover Pictured Cliffs and Fruitland formation tops. Shut-in well for the day. WOC overnight. Jonathan Kelly was NMOCD inspector on location.

2/6/18 Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 30 psi. Bled down well. TIH and tagged plug #6 top at 804'. R/U wireline services. RIH and perforated squeeze holes at 343'. **{Plug #7:** (Surface Shoe 343'-surface, 98 Sacks Class B Cement, 40 Sacks for top-off)} Successfully established injection rate through perforations at 343' and back up Bradenhead with 7.5 bbl of fresh water. P/U CR, TIH and set at 300'. R/U cementing services and pumped 23 sacks below CR at 300'. Stung out of CR and spotted 12 sx on top of CR at 300. WOC 4 hours. Put pressure gauge on Bradenhead and monitored for 30 minutes. Over the 30 minute interval the Bradenhead built up 15 psi. Opened well back up and let well flow overnight to monitor water and gas migration. Jonathan Kelly was NMOCD inspector on location.

- 2/7/18** Installed pressure gauge on Bradenhead and monitored pressures. Pressure built from 15 psi at 8:00 AM to 35 psi at 8:30 AM. R/U wireline services and ran CBL from top of plug #7 at 159' to surface. CBL indicated good cement behind casing up to 122'. Flowed well through Bradenhead for the remainder of the day. Shut-in well at 5:00 PM. Bradenhead pressure will be checked 2-8-18.
- 2/8/18** Took pressure reading from Bradenhead at 7:30 AM. Bradenhead pressure had built up to 75 psi. NMOCD recommended taking a gas sample to analyze where gas migration was coming from. Gas sample was taken and sent to GAS Analysis for analysis. Results indicated that gas was not coming from Dakota formation and most likely was coming from Farmington Sands formation. R/D P&A equipment and left half tank on location so that well could be flowed through Bradenhead so that gas at surface could be vented sufficiently.
- 2/9/18** Shut-in Bradenhead for a 1-hour interval from 3:30 PM-4:30 PM. During the 1-hour interval pressure built up to 10 psi.
- 2/10/18** Shut-in Bradenhead for a 1-hour interval from 11:30 PM-12:30 PM. During the 1-hour interval pressure built up to 7 psi.
- 2/11/18** Shut-in Bradenhead for a 1-hour interval from 11:00 PM-12:00 PM. During the 1-hour interval pressure built up to 2 psi.
- 2/12/18** Shut-in Bradenhead for a 1-hour interval from 12:00 PM-1:00 PM. During the 1-hour interval the Bradenhead never built up pressure.
- 2/23/18** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Shut-in Bradenhead and performed 1-hour shut-in test in which the Bradenhead failed to build up any pressure. R/U crane to wellhead and performed cut-off. Topped-off 4-1/2" production casing from 150' to surface. Ran tally tape down hole and tagged cement at 80' down in surface casing. RIH with 3/4" poly pipe and pumped cement down 3/4" poly pipe from 80' to surface and topped off well. Installed P&A marker per BLM & NMOCD regulations. Jonathan Kelly was NMOCD inspector on location.

Wellbore Diagram

Gallegos Canyon Unit 188E

API #: 3004524171

San Juan, New Mexico

Plug 7

343 feet - Surface

343 feet plug

90 sacks of Class G Cement

40 sacks of cement for top off

Plug 6

1242 feet - 804 feet

438 feet plug

35 sacks of Class G Cement

Plug 5

2214 feet - 2024 feet

190 feet plug

15 sacks of Class G Cement

Plug 4

2928 feet - 2770 feet

158 feet plug

15 sacks of Class G Cement

Plug 3

3994 feet - 3800 feet

194 feet plug

15 sacks of Class G Cement

Plug 2

4904 feet - 4702 feet

202 feet plug

16 sacks of Class G Cement

Plug 1

5688 feet - 5517 feet

171 feet plug

15 sacks of Class G Cement

Perforations

5722 feet - 5732 feet

5746 feet - 5748 feet

5800 feet - 5818 feet

5838 feet - 5842 feet

Surface Casing

8.625" 24# @ 293ft

Formation

Pictured Cliffs - 1190 feet

MesaVerde - 2880 feet

Mancos - 3935 feet

Gallup - 4854 feet

Greenhorn - 5672 feet

Dakota - 5722 feet

Retainer @ 5688 feet

Production Casing

4.5" 10.5# @ 5980ft

