Form 3160-5
(June 2015)

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.***

***SUBMIT IN TRIPLICATE - Other instructions on page 2***

5. Lease Serial No.
NMNM03358

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NEBU 604 COM 2H

2. Name of Operator
BP AMERICA PRODUCTION CO
Contact: TOYA COLVIN
E-Mail: Toya.Colvin@bp.com

9. API Well No.
30-045-35794-00-X1

3a. Address
PO BOX 3092
HOUSTON, TX 77253

3b. Phone No. (include area code)
Ph: 281.892.5369

10. Field and Pool or Exploratory Area
BASIN MANCOS

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 13 T31N R7W SWNW 1891FNL 594FWL
36.901585 N Lat, 107.529243 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 | | | |
|---|---|---|---|---|
| ☒ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Subsequent Report | ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other Drilling Operations |
| BP | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ 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 perform the attached remedial operations on the subject well.

Please see the attached updated procedure including wellbore diagram.

OIL CONS. DIV DIST. 3

FEB 13 2018

Notify NMOCD 24 hrs prior to beginning operations

14. I hereby certify that the foregoing is true and correct.
**Electronic Submission #402921 verified by the BLM Well Information System**
**For BP AMERICA PRODUCTION CO, sent to the Farmington**
**Committed to AFMSS for processing by JACK SAVAGE on 02/06/2018 (18JWS0094SE)**

Name *(Printed/Typed)* TOYA COLVIN — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 02/01/2018

### THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE — Title PETROLEUM ENGINEER — Date 02/06/2018

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD AV

4

**NEBU 604 Com 2H – 30-045-35794**
**Remedial ops outline**

**9 ⅝ x 12 ¼" 0.0558 bbl/ft**
**9 ⅝" 40# 0.0758 bbl/ft**

**Perform remedial after lateral is drilled – 5 ½" csg set in liner hanger**

1. RIH and set RBP in the 9 ⅝" or 5 ½" casing and press test to 1500 psi
2. MIRU WL; Shoot 2 holes, 180 deg @ ± **3520'** (at least 50' below PC main top @ 3464') and 2 holes, 180 deg @ ± **2900'**
3. RIH and set packer @ ± 3480'
4. Break circulation down work string and up the upper perf holes @ 5 - 8 bpm w/ annulus open
5. POH packer and L/D
6. RIH w/CR and set @ ± 3480'
7. MIRU cement equipment; MU lines and press test
8. Pump ± 50 bbls of cement (ann volume ± 40 – 50% excess) – to be recalculated on loc based on actual perf depths and displace it to the retainer
9. Sting out of retainer; c/o excess cement
   - 9.1. If there is cement in the returns, balance a ± 20 bbl cement plug at ± 2910'; Pull up above cement level and start hesitating to max 1500 psi; pull up, clean excess, POH and shut well in with ± 1000 psi (depending on last squeeze pressure)
   - 9.2. WOC 24 hrs or as per HES recommendation
   - 9.3. If there is no cement in returns POH w/ work string and run CBL
   - 9.4. If TOC is too low will shoot another set of perforations and repeat the process
10. MIRU WL; Shoot 2 holes, 180 deg @ ± **2580'** (at least 50' below KT top @ 2514') and 2 holes, 180 deg @ ± **2440'**
11. RIH w/CR and set @ ± 2530'
12. MIRU cement equipment; MU lines and press test
13. Pump ± 12 bbls of cement (ann volume ± 40 – 50% excess) – to be recalculated on loc based on actual perf depths and displace it to the retainer
14. Sting out of retainer; c/o excess cement
    - 14.1. If there is cement in the returns, balance a ± 20 bbl cement plug at ± 2450'; Pull up above cement level and start hesitating to max 1500 psi; pull up, clean excess, POH and shut well in with ± 1000 psi (depending on last squeeze pressure)
    - 14.2. WOC as per HES recommendation
    - 14.3. If there is no cement in returns POH w/ work string and run CBL
    - 14.4. If TOC is too low will shoot another set of perforations and repeat the process
15. MU d/o BHA and d/o cement past perf hole @ 2440'
16. Press test csg to 500 psi
17. If CBL was not previously run POH w/ drilling BHA
18. Run CBL – submit CBL to NMOCD/BLM for approval
19. If CBL is good RIH w/ d/o BHA
20. D/O CR and clean past the perf @ 2530'
21. Press test csg to 500 psi
22. Continue in hole and d/o past the perf hole @ 2900'
23. If CBL was not previously run, POH w/ drilling BHA
24. Run CBL – submit CBL to NMOCD/BLM for approval
25. If CBL is good RIH w/ d/o BHA
26. D/O CR and clean past the perf @ 3520'
27. Press test csg to 500 psi
28. POH w/ drilling BHA
29. If pressure tests are good , notify NMOCD 24 hr in advance to witness the final MIT
30. MIT casing to 500 psi for 30 min
31. POH and L/D drilling BHA – can be POH prior to MIT

32. RIH and retrieve RBP
33. POH and lay down tools
34. RIH and clean PBR
35. RIH w/ 5 ½" 20# P110 tie back string
36. MIT 5 ½" casing string to 1500 psi

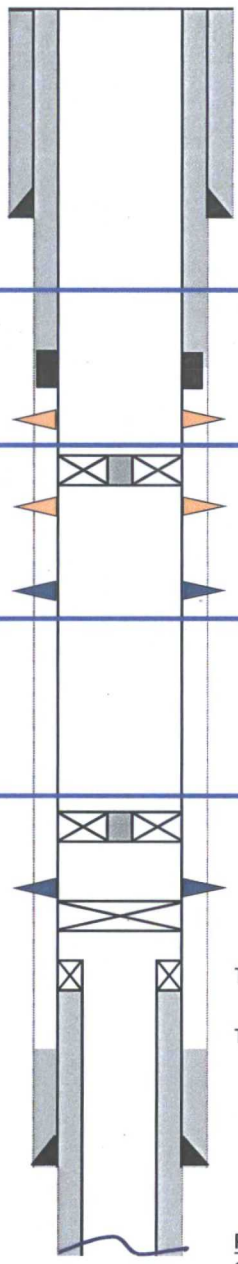
**Contingencies:**

- If circulation cannot be achieved (bullet 4), through the holes @ ± 2900', plan to shoot another set of perforations @ ± 3350' and attempt again to achieve circulation
- Operations and volumes will be adjusted accordingly and reported to regulatory agencies
- If the CBL indicates isolation between the formations but can't obtain pressure test, decision might be made to defer the pressure testing of the casing and cement the tie-back string in place and plan to bring cement above ±2440' in the 9 ⅝" x 5 ½" annulus

- Cement blend, density and WOC time will be agreed w/ HES

**NEBU 604-2H**
**API # 30-045-35794**

GL 6500'
KB 25'



**Surface Casing**
17 ½" hole @ 1034'
13 ⅜", 54#, J55 @ 1029' MD
TOC @ surface

**Formation tops**

Ojo Alamo 2382'

DV 2429'

Perf (2.2) ± 2440'

Kirtland 2514'

CR (2) ± 2530'
Perf (2.1 ) ± 2580'

Perf (1.2) ± 2900'

Fruitland 3004'
Ignacio 3209'
Cottonwood 3283'
PC Tongue 3348'
Cahn 3433'

PC Main 3464'

CR (1) ± 3480'

Perf (1.1) ± 3520'

Lewis Sh 3589'

TOL ± 3600'

Huerfanito Bent 4247'

TOC 4100'

**Intermediate Casing**
12 ¼" hole
9 ⅝", 40#, P110 @ 6325' MD
TOC @ 4100'

**Production Liner**
8 ¾" hole
5 ½" 20# P110 csg