

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. NEBU 605 COM 1H
2. Name of Operator BP AMERICA PRODUCTION COMPANY Contact: TOYA COLVIN Email: Toya.Colvin@bp.com	9. API Well No. 30-045-35851-00-X1
3a. Address 501 WESTLAKE PARK BLVD. THREE ELDRIDGE PLACE HOUSTON, TX 77079	10. Field and Pool or Exploratory Area BASIN MANCOS
3b. Phone No. (include area code) Ph: 281.892.5369	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 11 T31N R7W SESE 440FSL 805FEL 36.907990 N Lat, 107.534065 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"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Hydraulic Fracturing
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recombine
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Convert to Injection
	<input type="checkbox"/> Plug Back

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 recompleate 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 recompleation 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 procedure including wellbore diagram.

OIL CONS. DIV DIST. 3

FEB 01 2018

14. I hereby certify that the foregoing is true and correct. Electronic Submission #402522 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by JACK SAVAGE on 01/30/2018 (18JWS0091SE)	
Name (Printed/Typed) TOYA COLVIN	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/29/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JACK SAVAGE</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>01/30/2018</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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****BP
NMOCD
See Revised Plan
Accepted For Record

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NEBU 605 Com 1H – 30-045-35851
Remedial ops outline

9 5/8 x 12 1/4" 0.0558 bbl/ft
9 5/8" 40# 0.0758 bbl/ft

Scenario #1 – Remediate prior to drilling lateral

1. MIRU WL; Shoot 2 holes, 180 deg @ $\pm 3480'$ (± 50 below PC main top @ 3417') and 2 holes, 180 deg @ $\pm 2870'$
2. RIH and set packer @ $\pm 3440'$
3. Break circulation down work string and up the upper perf holes @ 5 - 8 bpm w/ annulus open
4. POH packer and L/D
5. RIH w/CR and set @ $\pm 3440'$
6. MIRU cement equipment; MU lines and press test
7. Pump ± 50 bbls of cement (ann volume $\pm 40 - 50\%$ excess) – to be recalculated on loc based on actual perf depths and displace it past the retainer
8. Sting out of retainer; c/o excess cement
 - a. If there is cement in the returns, balance a ± 20 bbl cement plug at $\pm 2880'$; 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)
 - b. WOC 24 hrs or as per HES recommendation
 - c. If there is no cement in returns POH w/ work string and run CBL
 - d. Based on TOC plan to shoot another set of perforations and repeat the process
9. MU d/o BHA and d/o cement past 2880'
10. Press test csg to ± 1000 psi
11. POH w/ drilling BHA
12. Run CBL
13. If CBL is good RIH w/ d/o BHA
14. D/O CR; c/o past the plug @ 3440'
15. Press test csg again to ± 1000 psi (press test lower holes)
16. POH and L/D drilling BHA

Contingencies:

- If circulation cannot be achieved (bullet 3), through the holes @ $\pm 2870'$, plan to shoot another set of perforations @ $\pm 3320'$ and attempt again to achieve circulation
- Operations and volumes will be adjusted accordingly and reported to regulatory agencies

Notes:

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

NEBU 605-1H
API # 30-045-35857

GL 6471'
KB 25'

Formation tops
Ojo Alamo 2333'

Surface Casing
17 1/2" hole @ 1035'
13 3/8", 54#, J55 @ 1030' MD
TOC @ surface

DV 2382'

Kirtland 2455'

Perf ± 2870'

Fruitland 2970'

Ignacio 3272'
Cottonwood 3255'
PC Tongue 3301'
Cahn 3398'

PC Main 3417'

CR ± 3440'

Perf ± 3480'

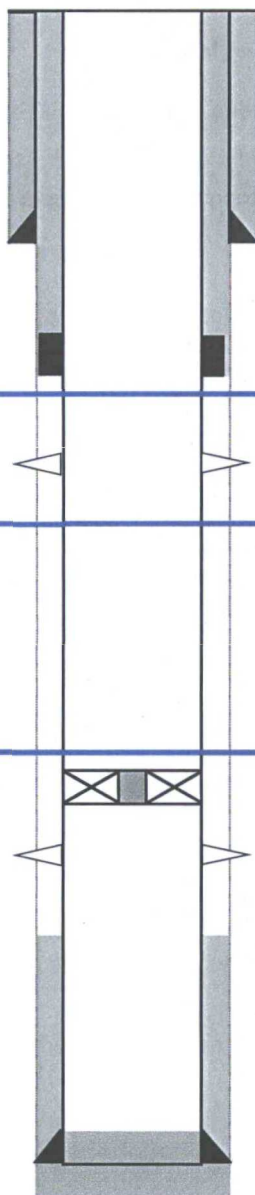
Lewis Sh 3558'

TOL ± 3600'

Huerfanito Bent 4225'

TOC 3850'

Intermediate Casing
12 1/4" hole 6315'
9 5/8", 40#, P110 @ 6305' MD
TOC @ 4100'



Scenario #2 – Remediate after lateral 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 @ ± 3480' (± 50 below PC main top @ 3417') and 2 holes, 180 deg @ ± 2900'
3. RIH and set packer @ ± 3440'
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 @ ± 3440'
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 past 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 ± 2880'; 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. Based on TOC plan to shoot another set of perforations and repeat the process
10. MU d/o BHA and d/o cement past 2880'
11. Press test csg to 500 psi
12. POH w/ drilling BHA
13. Run CBL
14. If CBL is good RIH w/ d/o BHA
15. D/O CR; c/o past the plug @ 3480'
16. Press test csg again to 500 psi (press test lower holes)
17. POH and L/D drilling BHA
18. RIH and retrieve RBP
19. POH and lay down tools
20. RIH and clean PBR
21. RIH w/ 5 ½" 20# P110 tie back string
22. MIT 5 ½" casing string to 1500 psi

Contingencies:

- If circulation cannot be achieved (bullet 4), through the holes @ ± 2870', plan to shoot another set of perforations @ ± 3320' 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 ±2900' in the 9 ⅝" x 5 ½" annulus

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

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TOC @ surface

Kirtland 2455'

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PC Main 3417'

CR ± 3440'

Perf ± 3480'

Lewis Sh 3558'

Huerfano Bent 4225'

TOL ± 3600'

TOC 3850'

Intermediate Casing

12 1/4" hole 6315'
9 5/8", 40#, P110 @ 6305' MD
TOC @ 4100'

Production Liner

8 3/4" hole
5 1/2" 20# P110 csg

