

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMSF078039

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
BARNES LS 12

2. Name of Operator

BP AMERICA PRODUCTION CO.

Contact: CHERRY HLAVA

E-Mail: hlavacl@bp.com

9. API Well No.

30-045-21171-00-S1

3a. Address

200 ENERGY COURT
FARMINGTON, NM 87401

3b. Phone No. (include area code)

Ph: 281-366-4081

10. Field and Pool, or Exploratory
BLANCO PICTURED CLIFFS

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

Sec 27 T32N R11W NENW 0800FNL 1736FWL
36.96082 N Lat, 107.97862 W Lon

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

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

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 recompleat 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 recompleat 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 finds no further uphole potential in the above mentioned well & respectfully request permission to P&A.

Please see attached P&A procedure.

RCVD APR 20 '10

OIL CONS. DIV.

DIST. 3

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

Electronic Submission #84176 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 04/14/2010 (10SXM0155SE)

Name (Printed/Typed) CHERRY HLAVA

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/06/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By STEPHEN MASON

Title PETROLEUM ENGINEER

Date 04/14/2010

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.

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

NMOCDBO 4/27

Barnes LS 12 – PC PxA Procedure (Version 2 - April 2, 2010)

General Information:

Formation:	PC	Job Objective:	Plug and Abandon
Project #:		Date:	3/24/2010
Engineer:	Anne Hansford	p. 281.366.8619	c. 713-540-3386
Production Contact:	Rocky Deromedi	p. 505.326.9471	c. 505.486.0942
Optimizer:	Mike McMahan	p. 505.326.9231	
Backup Engineer:			

Well Information:

API Number:	30-045-21171
BP WI:	50%
Run #:	
Surface Location:	Sec. 27, T32N, R11W
Meter Number:	87732
Well FLAC:	
Cost Center:	
Lease FLAC:	
Restrictions:	N/A
Regulatory Agency:	BLM
Compressed (Y/N):	N

Production Data:

Tubing Pressure:	126 psi
Casing Pressure:	?
Line Pressure:	136 psi
Pre-rig Gas Rate:	MCFD
Anticipated Uplift:	None
Water Rate:	
CO2 (%):	.50 to 1.9 %
H2S (PPM):	N/A
Gas BTU:	1150-1180
Artificial Lift Type:	1-1/4" tubing
	Lat 36.96091 long
GPS Coordinates	107.97926

NEED adaptor flange for Larkin wellhead

Basic Job Procedure:

A) KEY 142

1. Set 1-1/4" CW plug with downhole stop in tubing from B&R
2. POOH 1-1/4", 2.33# IJ tubing (depth unknown) possibly 3200'
3. Set CIBP @ 3194'
4. Pressure test 2-7/8" casing
5. Run CBL
6. R/D

B) Coil Tubing unit

7. Cement 3194' to 2760' (CBL dependent)
8. Based on CBL, cement over Kirtland and Ojo Formations (1340' – 1050') inside and outside
9. Perf @ 181' and cement surface plug from 181' to surface inside and outside.

Safety and Operational Details:

ALL work shall comply with DWOP E&P Defined Operating Practice.

Well History:

The Barnes LS 12 originally completed in 1972. At some time 1-1/4" tubing was installed into the wellbore. Wireline was completed 4-30-09. RIH 1" impression block and tag fill at 3302'. Very little fluid @ bottom.

Standard Location Work:

1. Perform pre-rig site inspection, size of location, gas taps, other wells, other operators, running equipment, wetlands, wash, H2S barriers if needed for equipment. Landowner issues, buried lines in pits, raptor nesting, critical location, check anchors. Check ID wellhead, determine if equipment is acceptable or obsolete and replace if necessary, if digging is required have One Call made 48 hours. Follow ground disturbance policy.
2. Perform second site visit, checking anchors and barriers if needed. Ensure lines are marked so that they clearly designate pit locations. Discuss and turnover handover sheet with someone from operations team and wells team. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.

Rig Procedure:

3. Notify BLM and NMOCD 24 hours prior to performing the work.
4. Hold pre-job safety meeting and discuss JSA with everyone on location. JSA should cover: heavy lifts, pinch points, location hazards, pressure hazards, proper PPE and 8 golden rules of safety/IFF. Make sure everyone has preformed their LOTO and knows they have the right to stop the job.
5. Check and record casing pressure, intermediate, and Bradenhead pressures. Record all pressures into DIMS. Notify engineer if Bradenhead pressures exist. Check gas H2S content and treat if the concentration is > or equal to 10 ppm.
6. MIRU workover rig.
7. Insure double casing valves are installed. Spot and lay 3" line and tank to blow down well, record pressures while blowing well down if possible.
8. Move in Wireline unit, equipment and crew. Be sure to fill out necessary work orders. Wireline must perform LOTO and JSA. RU unit with a lubricator and BOP. **Since well is not an HCO, the lubricator can be tested with wellhead pressure versus being hydrotested to the maximum anticipated wellhead pressure plus a safety factor..**
9. RIH with EOT locator. Note where EOT is.
10. Two barriers will need to set in order to break containment (B&R has CW plugs with downhole slip stops. Plugs will need to be set near EOT'. Each time the lubricated connection is broken, it will need to be pressure tested with wellbore pressure for a quick 5 min test and document in DIMS. Contact engineering if these barriers cannot be used.
11. Blow down backside to flow back tank.
12. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the flow back tank. Pressure test BOPs. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover. Remove wellhead back pressure valve if used.
13. Pull tubing hanger and shut pipe rams and install stripping rubber.
14. POOH with 1-1/4" 2.3#/ft production tubing and lay down tubing.
15. RU e-line unit with a lubricator.
16. RIH with 2-7/8" gauge ring to top of perforations @ 3244'.

17. RIH with 2-7/8" CIBP and set at **3194'** and load hole with fluid and pressure test **2-7/8"** casing to 500 psi for 30 minutes. If no fluid or pressure loss is apparent. If fluid loss, contact engineer for remedial procedure.

18. Run CBL.

19. RD eline unit.

20. RD rig.

COIL TUBING PROCEDURE:

21. Hold pre-job safety meeting and discuss all JSA's with all BP and third party personnel. The Pre-job safety meeting should cover: heavy lifts, pinch points, location hazards, pressure hazards, and proper PPE.

22. MIRU Coil-tubing unit.

23. RU CTU. If threaded tree flanges perform proper risk assessment for threaded connections. Use dual choke manifold or production choke for flow back. Fully function and pressure test BOP's to 250-psi low-pressure test, 1000-psi high-pressure test. If Shear Rams are not used in BOP stack, refer to local standard operating practice. Lubricator should be of adequate length to cover BHA. Dual flapper check valves should be run above BHA. If dual flapper check valves are not used a detailed and current assessment of risks, mitigations and contingency responses should be refer to, or a local standard operating practice.

24. Based on CBL results determine if remedial work needs to be completed for the FT TOC.

25. RIH with coil-tubing to **3194'** and spot ~~434'~~ ^{434'} (14.1 cu ft and possible 26 cu ft on backside if needed)) of G-Class cement inside 2-7/8" casing from **3194' – 2760'** ^{30'} **both inside and outside**. This will cover the Picture Cliff and Fruitland Coal interval.

26. POOH to at least **600'**. Based on CBL results determine if remedial work needs to be completed. Pump a **290'** (9.4 cu ft- inside; **59** cu ft outside) of G-Class cement from **1340' 1386' – 1286' – 1050'** on the **inside and outside of the 2-7/8" casing**. This will isolate the Kirtland and Ojo Alamo formation. POOH.

27. Rig down coil unit.

28. Move in Wireline unit, equipment and crew. Be sure to fill out necessary work orders. Wireline must perform LOTO and JSA. RU unit with a lubricator with pump in sub that can accommodate CBL and BOP. **Pressure test with water to 250 psi but not over 500 psi..**
273

29. RIH with perforating gun and shoot holes @ **181'**. RD wireline.

30. RU pump truck. Establish circulation. Once circulation is established, pump and circulate ~~56~~ ⁵⁷ cu ft outside; ~~8~~ ⁸ cu ft inside of cement from **181' to surface behind and inside 2-7/8" casing**. This will put cement around the bottom of the 8-5/8" surface casing shoe to surface and both inside and behind the 2-7/8" casing. POOH.

31. Perform underground disturbance and hot work permits. Cut off tree.

32. If cement cannot be seen on all annulus and casing strings remedial cementing will be required from surface.

33. Release coil tubing unit

34. Install well marker and identification plate per regulatory requirements. Dry hole marker should contain the following:

BP American Production Co.
Federal Lease number: SF 078039
Barnes LS 12
API 30-045-21171
Unit letter C, Sec 27, T32N, R11W
800 FNL, 1736 FWL
San Juan, NM
Picture Cliffs Formation
P&A date - TBD

35. RD and release all equipment. Remove all LOTO equipment.
36. Ensure all reports are loaded into DIMS. Print out summary of work and place in Well file. Notify Sherri Bradshaw (326-9260) of completed P&A and Cherry Hlava.

Barnes LS 12 - PC

Sec 27, T32N, R11W

API # 30-045-21171

GL: 6506'

History:

Completed in 1972

MAY HAVE 1-1/4" in hole?

8-5/8", 24# KS @ 131'

107 ft3 cmt

circulated cement to surface

TOC @ 2890' (TS)

1-1/4" tubing in wellbore, depth unknown

PC Perforations

3244' - 3264'

2-7/8", 6.4# KS @ 3423' (6-3/4" hole size)

566 ft3 cmt

PBTD: 3412'

TD: 3423'

Formation tops:

Ojo	1200'
Kirtland	1340'
FT	2860'
PC	3240'

updated: 4/21/09 AH

Barnes LS 12 - PC

Sec 27, T32N, R11W

API # 30-045-21171

GL: 6506'

$$\begin{aligned} 273/30.771(1.15) &= 8 \text{ SKS} \\ 142/4.9159(1.15) &= 25 \text{ SKS} \\ 131/4.046(1.15) &= 28 \text{ SKS} \\ &= 61 \text{ SKS} \end{aligned}$$

History: Vacintean 223'
Completed in 1972

MAY HAVE 1-1/4" in hole?

Kirtland 1336'

Fruitland 2790'

cmt 181' to surface
273'

8-5/8", 24# KS @ 131'

107 ft3 cmt
circulated cement to surface

cmt 1340' - 1950'
1786' 1286'

$$\begin{aligned} 150/30.771(1.15) &= 4 \text{ SKS} \\ 200/4.9159(1.15) &= 35 \text{ SKS} \end{aligned}$$

cmt 3194' to 2740'

TOC @ 2890' (TS)

$$\begin{aligned} 3194 - 2740 + 50/30.771(1.15) &= 14 \text{ SKS} \\ 200/4.9159(1.15) &= 35 \text{ SKS} \end{aligned}$$

PC Perforations

3244' - 3264'

Pierced Chpts 3235'

Formation tops:

~~Ojo~~ 1200'
Kirtland 1340' 1/2
FT 2860' 278'
PC 3240' 3'

2-7/8", 6.4# KS @ 3423' (6-3/4" hole size)

566 ft3 cmt

PBTD: 3412'

TD: 3423'

updated: 4/21/09 AH

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: 12 Barnes LS

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "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) 599-8907.
3. The following modifications to your plugging program are to be made:
 - a) Bring the top of the Pictured Cliffs/Fruitland plug to 2740' inside and where no cement is outside the 2 7/8" casing.
 - b) Place the Kirtland plug from 1386' – 1286' inside and outside the 2 7/8" casing.
 - c) Place Nacimiento/Surface plug from 273' to surface inside and outside the 2 7/8" casing.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.