

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

5. Lease Serial No.
SF - 078416-A ✓

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.

8. Well Name and No.
HARDIE LS 5 ✓

9. API Well No.
30-045-07946 ✓

10. Field and Pool, or Exploratory
BLANCO MESAVERDE ✓

11. County or Parish, and State
SAN JUAN COUNTY, NM ✓

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

2. Name of Operator
BP AMERICA PRODUCTION COMPANY

Contact: MARY CORLEY
E-Mail: corleyml@bp.com

3a. Address
P.O. BOX 3092
HOUSTON, TX 77253

3b. Phone No. (include area code)
Ph: 281.366.4491
Fx: 281.366.0700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 23 T29N R8W SESW 990FSL 1650FWL

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 checked="" 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 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 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 America Production Company respectfully request permission to addpay in the Menefee and Lewis Shale and stimulate as per the attached procedure.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #12971 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by Matthew Halbert on 08/02/2002 ()	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 07/22/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>/s/ Jim Lovato</i>	Title	Date AUG 1 2
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

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.

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NMOCD

Hardie LS #5
Payadd Procedure
T29N-R8W-Sec23
API #: 30-045-07946

1. Check anchors. MIRU workover rig.
2. Kill with 2% KCL water if necessary. Nipple down WH. NU BOPs.
3. Tag for fill and tally OH with 2-3/8" production tubing currently set at 5428'. Visually inspect tbg while POOH.
4. TIH with bit and scraper for 4-1/2" casing to 5264'.
5. RIH with 4-1/2" CIBP. Set CIBP at 5264'.
6. RIH with 3-1/8" casing guns with Schlumberger's Prospector, select-fire charge. Perforate Menefee formation (correlate to GR log).
7. RIH with 2-3/8" frac string and 4-1/2" packer. Set packer at 4899'.
8. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
9. Flowback frac immediately.
10. Release packer and TOH with frac string and packer.
11. RIH with 4-1/2" CIBP. Set CIBP at 4666'. Load hole with 2% KCL.
12. Run GR log over Lewis Shale interval.
13. Pressure test casing to 1500 psi
14. RIH with 3-1/8" casing guns with Schlumberger's Prospector, select-fire charge. Perforate Lewis Shale formation (correlate to GR log).
15. RU frac equipment and install wellhead isolation tool. Use 2% KCL-N2 foam in fracture stimulation.
16. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
17. Flowback frac immediately.
18. TIH with tubing and bit. Cleanout fill and drill bridge plugs set at 4666' and 5264'. Cleanout fill to PBTD at 5531'. Blow well dry at PBTD.
19. Remove one joint of tbg and reland 2-3/8" production tubing at 5398'.
20. Swab water from tubing with sandline.

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21. ND BOP's. NU WH. Test well for air. Return well to production.

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Hardie LS #5

Sec. 23 T29N R8W

API#: 30-045-07946

GL: 6418'

History:

Completed openhole in 1953
1966 - cement OH, sqz hole @ 2200'
- sidetracked @ 4773', cased
and frac'd well

TOC @ surf (circ)

9-5/8" 25.4# S.W. @ 173'
w/ 130 sxs cmt

est. TOC @ unknown

Sqz hole @ 2200'
- sqz'd with 125 sxs cmt

TOC @ 2570' (T.S.)

7" 20# & 23# J-55 @ 4765'
500 sxs cmt

4-1/2" TOC @ UNKNOWN

Max deviation: 5 1/2 degrees

Tubing: 2-3/8" 4.7#, J-55 @ 5428'
(175 jts), pin collar @ 5428'

Mesaverde Perforations

CH: 4716 - 4756' w/ 20,000# sand
PL: 5294 - 5462' w/ 60,000# sand

Openhole shot w/ 1743 qrts SNG

OH TD 5510'

PBTD: 5531'
TD: 5562'

4-1/2" 10.5#, J55 @ 5562'
120 sxs cmt

Updated 6/4/02 MNP

Notes:

Cliffhouse Perfs: 4716 - 26', 4746 - 56', w/ 2 SPF, 20,000# sand
P.L. Perfs: 5294 - 5310', 5322 - 38', 5354 - 62', 5376 - 80', 5400 - 04', 5460 - 62', w/ 16 SPZ, 60,000# sand

NAMOC