

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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.
NMSF078416A

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 ☐ Other

8. Well Name and No.
HARDIE LS 1

2. Name of Operator
BP AMERICA PRODUCTION CO

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

9. API Well No.
30-045-07893-00-S1

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

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

10. Field and Pool, or Exploratory
BLANCO MESAVERDE

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

Sec 26 T29N R8W NWNE 0990FNL 1650FEL
36.70116 N Lat, 107.64208 W Lon

11. County or Parish, and State

SAN JUAN COUNTY, NM

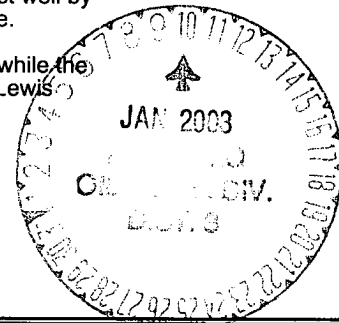
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<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 Workover Operations
	<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 add pay in the subject well by perforating the Menefee and Lower Lewis Shale formations as per the attached procedure.

Please note: The Lower Lewis Shale formation is considered a portion of the Mesaverde while the Upper Lewis Shale is considered the Charca in this area. Our intent is to perf the Lower Lewis Shale portion of the formation only.



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

**Electronic Submission #15334 verified by the BLM Well Information System
For BP AMERICA PRODUCTION CO, sent to the Farmington
Committed to AFMSS for processing by Matthew Halbert on 11/22/2002 (03MXH0192SE)**

Name (Printed/Typed) MARY CORLEY

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 10/21/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

<p><i>/s/ Jim Lovato</i></p> <p>Approved By _____ Title _____ Date JAN - 7 2003</p>	
<p>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.</p> <p>Office _____</p>	

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

NMOC

Hardie LS #1 Payadd Procedure

Procedure:

1. Check anchors. MIRU workover rig.
 2. Check and record tubing, casing, and bradenhead pressures.
 3. Blow down well. Kill with 2% KCL water ONLY if necessary.
 4. Nipple down WH. NU BOPs.
 5. Tag for fill and tally OH with 2-3/8" production tubing currently set at 5260'.
 6. RU WL unit. Run GR log across Menefee and Lewis Shale from 3800' – 5250' to select perforations.
 7. TIH with bit and scraper for 4-1/2" casing to 5225'.
 8. RU WL unit. RIH with 4-1/2" CIBP. Set CIBP at 5200'.
 8. RIH with 3-1/8" casing guns with Schlumberger's Prospector, select-fire charge. Perforate Menefee formation (correlate to GR log).
- Menefee perforations, 2 spf:
To be determined from GR log
9. RIH with 2-7/8" frac string and 4-1/2" packer. Set packer at 4700'.
 10. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
 11. Flowback frac immediately.
 12. Release packer and TOH with frac string and packer. LD frac string.
 13. RU WL unit. RIH with 4-1/2" CIBP. Set CIBP at 4575'. Load hole with 2% KCL.
 14. Pressure test casing to 1500 psi
 15. RIH with 3-1/8" casing guns with Schlumberger's Prospector, select-fire charge. Perforate Lewis Shale formation (correlate to GR log).

Lewis Shale perforations, 2 spf:
To be determined from GR log

16. RU frac equipment and install wellhead isolation tool. Use 2% KCL-N₂ foam in fracture stimulation.
17. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
18. Flowback frac immediately.
19. TIH with tubing and bit. Cleanout fill and drill bridge plugs set at 4575' and 5200'. Cleanout fill to PBTD at 5329'. Blow well dry at PBTD.
20. Rabbit tubing and RIH with 2-3/8" production tubing.
21. Land 2-3/8" production tubing at 5250'.
23. ND BOP's. NU WH. Test well for air. Return well to production.

Hardie LS #1

Sec 26, T29N, R8W

API#: 30-045-07893

GL: 6345'

