

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.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. SF - 078416-A ✓
2. Name of Operator BP AMERICA PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 3092 HOUSTON, TX 77253		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No: (include area code) Ph: 281.366.4491 Fx: 281.366.0700		8. Well Name and No. HARDIE LS 4 ✓
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T29N R8W SENE 1775FNL 800FEL ✓		9. API Well No. 30-045-08054 ✓
		10. Field and Pool, or Exploratory BLANCO MESAVERDE ✓
		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
	<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. <b>Electronic Submission #12963 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 ( )</b>	
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 <u>/s/ Jim Lovato</u>	Title	Date AUG 12
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.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**NMOCD**

**Hardie LS #4**  
**Payadd Procedure**  
**Sec23, T29N, R8W**  
**API #: 30-045-08054**

1. Check anchors. MIRU workover rig.
2. Kill with 2% KCL water if necessary. Nipple down WH. NU BOP's.
3. Tag for fill and tally OH with 2-3/8" production tubing. Visually inspect tbg while POOH.
4. TIH with bit and scraper for 4-1/2" casing to 5260'.
5. RIH with 4-1/2" CIBP. Set CIBP at 5260'.
8. RIH with 3-1/8" casing guns with Schlumberger's Prospector, select-fire charge. Perforate Menefee formation (correlate to GR log).
9. RIH with 2-3/8" frac string and 4-1/2" packer. Set packer at 5040'.
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.
13. RIH with 4-1/2" CIBP. Set CIBP at 4740'. Load hole with 2% KCL.
14. Run GR log over Lewis Shale interval.
15. Pressure test casing to 1500 psi
16. RIH with 3-1/8" casing guns with Schlumberger's Prospector, select-fire charge. Perforate Lewis Shale formation (correlate to GR log).
17. RU frac equipment and install wellhead isolation tool. Use 2% KCL-N2 foam in fracture stimulation.
18. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
19. Flowback frac immediately.
20. TIH with tubing and bit. Cleanout fill and drill bridge plugs. Cleanout fill to PBTD at 5610'. Blow well dry at PBTD.
21. Land 2-3/8" production tubing at 5413'.
22. Swab water from the tubing w/ sandline.
24. ND BOP's. NU WH. Test well for air. Return well to production.



# Hardie LS #4

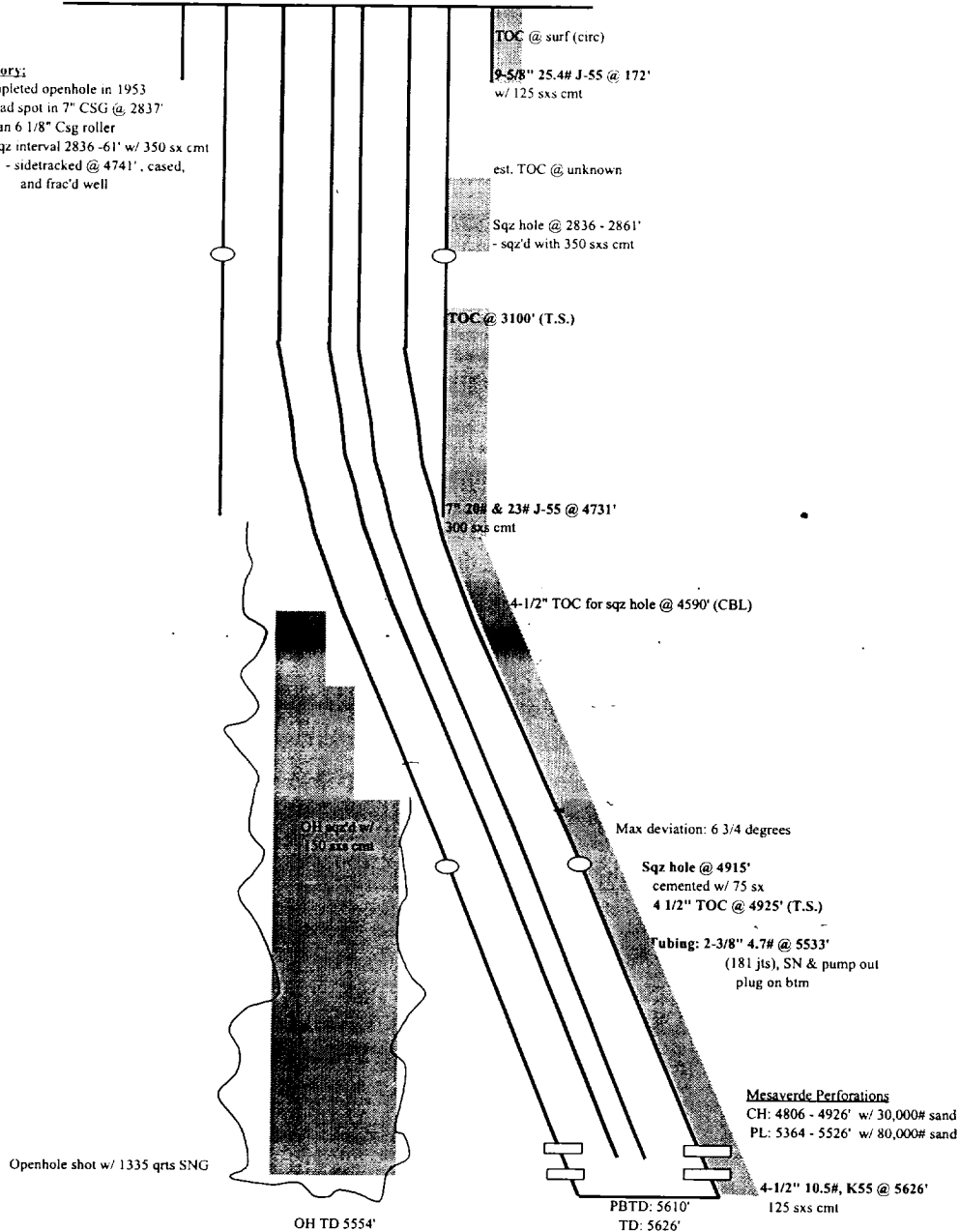
Sec. 23 T29N R8W

API#: 30-045-08054

GL: 6495'

## History:

Completed openhole in 1953  
 - bad spot in 7" CSG @ 2837'  
 - ran 6 1/8" Csg roller  
 - sqz interval 2836 - 61' w/ 350 sx cmt  
 1971 - sidetracked @ 4741', cased,  
 and frac'd well



## Notes:

Cliffhouse Perfs: 4806 - 18', 4914 - 26', w/ 20 SPZ, 30,000# sand  
 P.L. Perfs: 5364 - 68', 5378 - 82', 5409 - 13', 5423 - 27', 5440 - 44', 5474 - 82', 5522 - 26', w/ 16 SPZ, 80,000# sand

Updated 6/4/02 MNP