

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 077112
2. Name of Operator BP America Production Company Attn: Mary Corley		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) 281-366-4491		8. Well Name and No. Warren A LS 1A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 790' FNL & 1710' FWL Sec 25 T28N R09W		9. API Well No. 30-045-25232
		10. Field and Pool, or Exploratory Area Blanco Mesaverde & Otero Chacra
		11. County or Parish, State San Juan County, New Mexico

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OR 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
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"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Water Disposal	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	Other	Downhole Commingle

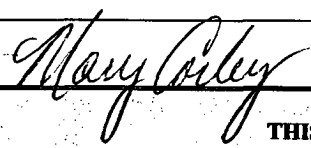
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths 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.

On 03/21/2003, BP America Production Company submitted a request for permission complete the subject well into the Otero Chacra Pool and commingle production downhole from the Blanco Mesaverde & Otero Chacra Pools. DHC Approval granted on 04/18/2003.

BP respectfully request to amend our application to include bradenhead repair as per the attached procedure.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct Name (Printed/typed) Mary Corley		Title Senior Regulatory Analyst	
Signature 		Date 09/11/2003	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved by /s/ Jim Lovato		Title	Date SEP 22 2003
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.

NMOCD

SJ Basin Well Work Procedure

Well Name: Warren A LS #1A
Date: July 18, 2003
Repair Type: Payadd and Recompletion

Objective: Complete Menefee and Chacra, downhole commingle Chacra and Mesaverde

1. TOH with tubing.
2. Repair bradenhead.
3. Perforate and fracture Menefee.
4. Perforate and fracture Chacra.
5. Reland tbg and downhole commingle Chacra and Mesaverde production.

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 and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 500 psi. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.
5. RU slickline unit or wireline unit. RIH and set plug (CIBP, tbg collar stop, or plug set in nipple) for isolation.
6. Tag for fill and tally OH with 2-3/8" production tubing currently set at 4935'. Visually inspect tbg while POOH.

Contingency: *If the tubing is in poor condition, replace entire tubing string.*

7. Repair bradenhead.
 - a. Contact Federal and State agencies prior to starting repair work (NMOCD Charlie Perrin, 505-334-6178 x16, BLM Steve Mason 505-599-6364).
 - b. TIH with bit and scraper for 7" casing. TOH.
 - c. TIH with RBP and packer. Set RBP at 1800'. Pressure test RBP with packer to 1500 psi. Release packer, spot sand on RBP, and pressure test casing to 1000 psi.
 - d. Isolate leak, if any, between packer and RBP. Establish injection rate and check for circulation. TOH with packer.
 - e. Perforate casing at 300' with 4 JSPF. Mix and pump 80 sxs cement. WOC.
A temperature survey estimated TOC for 7" casing at 1000'. Other hydrocarbon and fresh water zones should be isolated by cement in place.
Annulus Cement Volume (9-5/8" 36# x 7" 20#) = $[0.1668 \text{ ft}^3/\text{ft}] \times [300 \text{ ft}] / [1.15 \text{ ft}^3/\text{sk}] = 44 \text{ sxs}$
 - f. TIH with bit and scraper and drill out cement. Pressure test casing to 500 psi.
 - g. Circulate sand off and retrieve RBP.

8. TIH with bit and scraper for 4-1/2" liner. Work scraper across Mesaverde interval from 4100' – 4960' and across Chacra interval from 3250' – 3450'. TOH.
9. RU WL unit. RIH with 4-1/2" CIBP. Set CIBP at 4350'.
10. Load well with 2% KCL water. Pressure test casing to 2500 psi with rig pumps.
11. RIH with CBL log. Run CBL log across Mesaverde and Chacra interval from 3000' – 4350'. Fax GR log to Josue Villesca at (281) 366-0700.
12. 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 (12 shots / 24 holes):

4112', 4120', 4167', 4200', 4206', 4212', 4248', 4256', 4260', 4286', 4290', 4296'

13. RU frac equipment and install wellhead isolation tool. Use 2% KCL/N2 foam in fracture stimulation.
14. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule down 3-1/2" x 2-3/8" tapered frac string. Flush frac with foam. Fill out GWSI scorecard.
15. Immediately after frac job, RU WL unit and lubricator.
16. RIH and set 4-1/2" CIBP at 3500'.
17. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log).

Chacra perforations, 2 spf (20 shots / 40 holes):

3270' – 3274' (4')

3296' – 3300' (4')

3386' – 3390' (4')

3400' – 3404' (4')

3438' – 3442' (4')

18. RU frac equipment and install wellhead isolation tool. Use 2% KCL/N2 foam in fracture stimulation.
19. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule down 3-1/2" x 2-3/8" tapered frac string. Flush frac with foam. Fill out GWSI scorecard.
20. Flowback frac immediately. Obtain stabilized flowrate using choke flow correlation to be used in production allocation.
21. TIH with tubing and bit. Cleanout fill and drill bridge plugs set at 3500' and 4350'. Cleanout fill to PBTD at 4999'. Blow well dry at PBTD.
22. Flow well and obtain stabilized flowrate using choke flow correlation to be used in production allocation.

Warren A LS 1 A

Sec 25, T28N, R9W

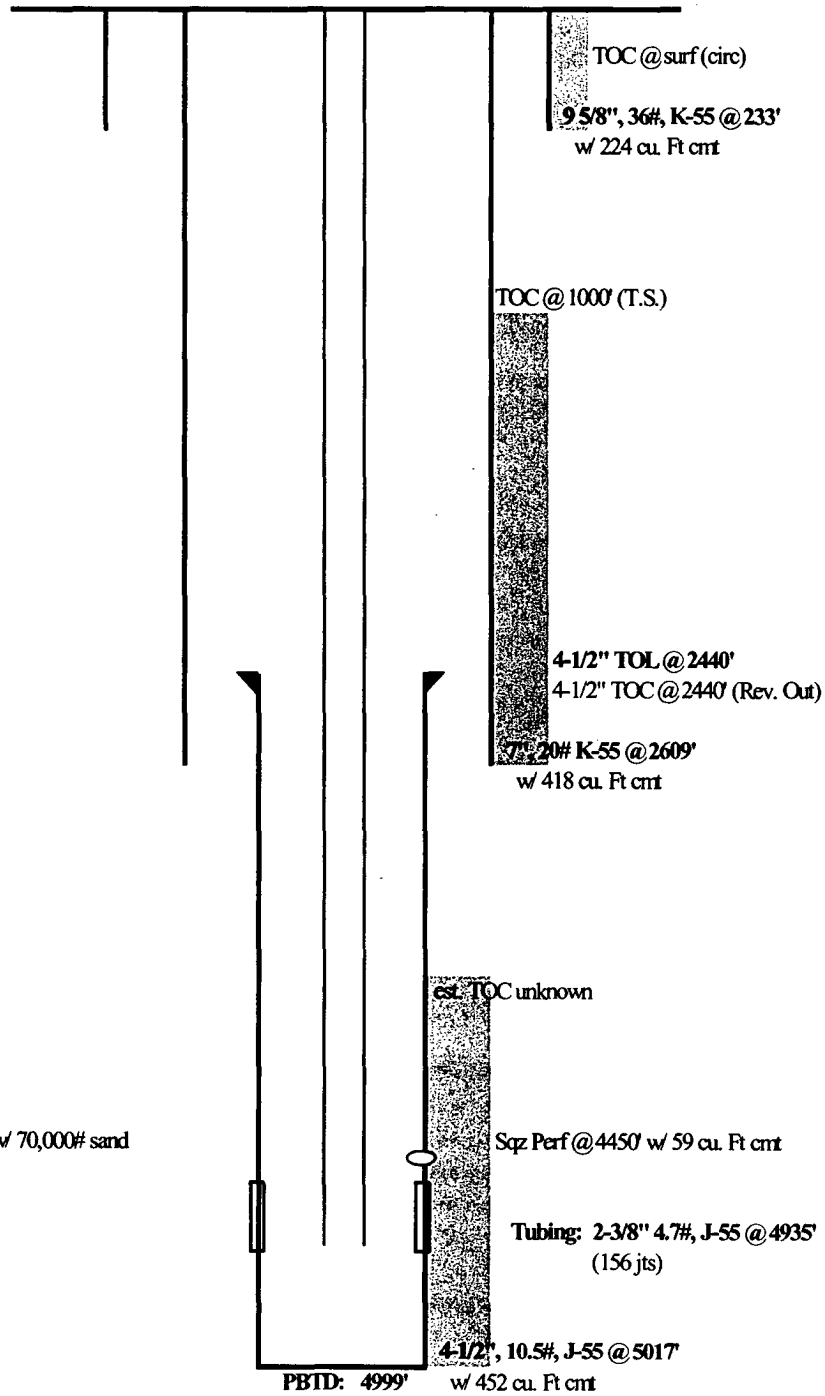
API #: 3004525232

History:

-Spud on 11/14/81

MV perforations

4468 - 4962', w/ 1SPZ, frac'd w/ 70,000# sand



TD: 5017

updated: 10/23/02 mmp

23. Rabbit tubing and RIH with 2-3/8" production tubing (with a muleshoe and X-nipple with blanking plug). Fill tubing with KCL water while RIH.
24. Land 2-3/8" production tubing at 4925'.
25. Pressure test tubing to 500 psi with rig pumps.
26. Swab down tubing with sandline.
27. RU SL unit. Run gauge ring for 2-3/8" tubing. Pull plug and set tubing stop for plunger. RD slickline unit.
28. ND BOP's. NU WH. Test well for air. Return well to production and downhole commingle Chacra and Mesaverde production.

Conditions of Approval:

Notice of Intent: to repair bradenhead, complete the subject well into the Otero Chacra Pool and DHC theChacra and Mesaverde pools.

**BP AMERICA PRODUCTION CO
Warren A LS 1A
790 FNL & 1800 FWL
Sec 25., T28N., R9W.,
API #: 3004525232**

- 1. Perforate casing at approximately 1000' with 4 JSPF (temperature survey estimated TOC for 7" casing at 1000'). Mix and pump cement to circulate to the surface. WOC.**