

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No 1004-0135

Expires July 31, 2010

**RECEIVED**  
MAY 15 2008  
Bureau of Land Management  
Field Office

**SUNDY 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. <b>SF - 077123</b>
2. Name of Operator <b>BP America Production Company Attn: Cherry Hlava</b>		6. If Indian, Allottee or tribe Name
3a Address <b>P.O. Box 3092 Houston, TX 77253</b>	3b Phone No (include area code) <b>281-366-4081</b>	7. Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>1700' FNL &amp; 1090' FEL Sec 14 T28N R09W</b>		8. Well Name and No. <b>Warren LS 4</b>
		9. API Well No. <b>30-045-07470</b>
		10. Field and Pool, or Exploratory Area <b>Blanco Mesaverde &amp; Otero Chacra</b>
		11. County or Parish, State <b>San Juan County, New Mexico</b>

**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
<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 type="checkbox"/> Abandon
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Water Disposal	
	<input type="checkbox"/> Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> 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 recomplate 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 recomplate 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.

**COMPLIANCE WELL**

**This is a PC/MV commingled well. The well is unable to produce because it is being depleted by a nearby Fruitland Coal well. It is believed that the pressure depletion of the coal well nearby is causing cross flow from the MV into the PC formation. BP respectfully requests permission to put a tie back liner around the PC formation to isolate that formation and continue producing the MV. We would like to do this in order to protect the remaining MV reserves.**

Please see the attached procedure

RCVD MAY 20 '08  
OIL CONS. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct	
Name (Printed/typed) <b>Cherry Hlava</b>	Title <b>Regulatory Analyst</b>
<i>Cherry Hlava</i>	Date <b>5/14/2008</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by <b>Original Signed: Stephen Mason</b>	Title	Date <b>MAY 16 2008</b>
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 *R*

## **SJ Basin Well Work Procedure**

**API #: 30-045-074700**

**Well Name:** Warren LS 004 – PC / MV  
**Date:** May 14, 2008  
**Repair Type:** Tie-back liner install  
**Location:** T28N-R9W-Sec14H  
**County:** San Juan  
**State:** New Mexico  
**Horizon:** Pictured Cliffs / Mesa Verde

**Engr:** Audrey Rasmussen  
**ph** (505) 326-9485

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**Objective:** Remove tubing, Clean out wellbore, Run tie back liner to isolate PC perforations, TIH and reland string of tubing, and return to production.

1. TOH with tubing string set @ 4768'
2. Run 5-1/2" tie-back liner from TOL to 2360'
3. Tag for fill C/O to PBTD
4. TIH with 2-3/8" tubing – land @ 4768'
5. Return well to production.

**Well History:** Completed in 1957 as dual MV/ PC location. Well was downhole commingled in 1985. Tubing was pulled and replace in 2002. Compressor was temporarily installed in 2006 and showed good results. Casing pressure has been declining over time, and well is believed to be being depleted through the PC by a nearby wellbore. It is desired to pull original dual completion and install tie-back liner over the PC zone to protect perforations for potential future production and to protect near-by high producing PC/FT wells in area and return MV back to production at 125 mcf/d.

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### **Procedure:**

1. Perform pre-rig site inspection. Check for: size of location, Gas Taps, other wells, other operators, running equipment, wetlands, wash (dikes req.), H2S, barriers needed for equipment, Landowner issues, location of pits (buried lines in pits), Raptor nesting, critical location, check anchors. Check ID wellhead; if earth pit is required have One Call made 48 hours prior to digging.
2. Perform second site visit after lines are marked to ensure all lines clear marked pit locations. Planning and scheduling to ready location for rig.
3. RU slickline unit. Pressure test lubricator and equipment. RIH and set **two** barriers (CIBP, tbg collar stop w/plug, or plug set in nipple) for isolation in each tubing string. **See wellbore Diagram below for BHA details of each tubing string.**
4. Check and record tubing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.

5. MIRU workover rig. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.
6. Blow down well. Kill with 2% KCL water ONLY if necessary.
7. Check all casing strings to ensure no pressure exist on any annulus. **The operations of removal of wellhead and installation of BOP's will be performed under a dispensation for one (1) barrier on the backside.**
8. Nipple down Wellhead. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 200 psi above BHP. Monitor flowing casing pressure with gauge throughout workover.
9. Install stripping rubber, pull tubing hanger and shut pipe rams. Strip tubing hanger out of hole.
10. RIH and tag fill, then TOO H with 2-3/8" production tubing currently set at 4768'. Visually inspect tubing while POOH, and notify engineer of any abnormalities.
11. RIH with bit and scraper for 7-5/8" casing. Check the distance between the top of the blind rams and the length of the bottomhole assembly that is being run. If the BHA is too long then the well has to be top killed and monitored prior to opening blind rams. Work casing scraper down 7-5/8" casing from surface to 2574'. TOH with bit and scraper and workstring.
12. Change out pipe rams for 5-1/2" casing.
13. RIH w/ Baker oil tools setting tools for running 5-1/2" tie-back liner. Liner hanger consists of 5-1/2" x 7-5/8" Type D-Liner hanger, 7 jts 5-1/2" 15.5# J-55 Casing, 5-1/2" x 7-5/8" SLP-R hydraulic set liner hanger, Baker running tools, consult vendor drawing below on details of hanger assembly.
14. RIH with liner assembly and tag TOL @ 2574'. Pull up 2-3' and slack-off weight, rotate string 1/2 rotation – **Note: Before rotating be sure of correct recommended rotation direction from Baker to set bottom hanger** – Baker will specify direction clockwise/ or counter-clockwise to set. This will initiate the bottom Type-D hanger setting elements.
15. Pull on Liner assembly to 25,000# over sting weight to set the bottom packer in tension.
16. Continue to hold tension on sting and drop ball down tubing to engage top set SLP-R packer setting element. Pressure up tubing per Baker service recommended pressure and procedure to set SLP-R packer on 7-5/8" casing.
17. Bleed off pressure to rig pit and slack off sting weight. Ensure liner is holding by slacking off weight then compressing sting mildly before releasing off top of hanger. POH w/ Baker running tools.
18. RIH with bit and scraper for 5-1/2" casing. Check the distance between the top of the blind rams and the length of the bottomhole assembly that is being run. If the BHA is too long then the well has to be top killed and monitored prior to opening blind rams. Work casing

scraper down 5-1/2" casing from 2574' to bottom of MV perforations @ 4810'. TOH with bit and scraper and workstring.

19. RIH with 2-3/8" workstring and cleanout to PBTD to ensure wellbore is clean and dry. Reference Under-Balanced Well Control Tripping Procedure. TOH w/ workstring.
20. RIH w/ original 2-3/8" tubing (if visual inspection is good) If visual inspection showed too much scale/wear, then RIH with 2-3/8" Yellow band tubing. Land tubing at 4768'. (With muleshoe, F-nipple with plug, 4ft pup, X-nipple with plug).
21. Lock down tubing hanger.
22. Pressure test tubing to 500 psi with air unit, make sure tubing spool valves are open. Care should be taken during pressure testing of the tubing due to potential problem caused if tubing parts close to the surface. Check all casing string for pressure. **The operations of removal of BOP's and installation of wellhead will be performed under a dispensation for one (1) barrier on the backside.**
23. ND BOP's. NU Wellhead. During Master valve placement ensure the top of hanger has spacer nipple in place to bottom of bonnet flange so plunger equipment will not hang up through tree. Pressure test Wellhead.
24. RU WL unit. Run gauge ring for 2-3/8" tubing. Broach out any tight spots noticed in WL trip. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to operations team personnel.
25. RD slickline unit.
26. Test well for air. Return well to production. RD and release all equipment. Remove all LOTO equipment.
27. Ensure all reports are loaded into DIMS. Print out summary of work and place in Wellfile. Discussion with production operations team about particulars of well when handing off the well file.

**Current Wellbore Diagram****Warren LS #4**

Sec 14, T28N, R9W

API # 30-045-07470

GL: 6091'

History:

Completed as MV/PC dual in July 1957

Downhole commingled in 1985

Tubing replaced 11/02

Pictured Cliffs Perforations

2454' - 2490' w/ 40,000#'s sand

Liner top sqz'd w/ 100 sxs cmt

Mesaverde Perforations

PL/MF: 4642' - 4810' w/ 60,000#'s sand

PBSD: 4850'

TD: 4927'

Est. TOC @ surface (circ)

**10-3/4" 32# Armco SW @ 174'**  
150 sxs cmt (circulated)

Est. TOC @ 1400' (temp surv 1957)

**5-1/2" Burnes hanger @ 2574'****7-5/8" 26#, J55 @ 2618'**

100 sx regular cement

100 sx pozmix

50 sx neat cement

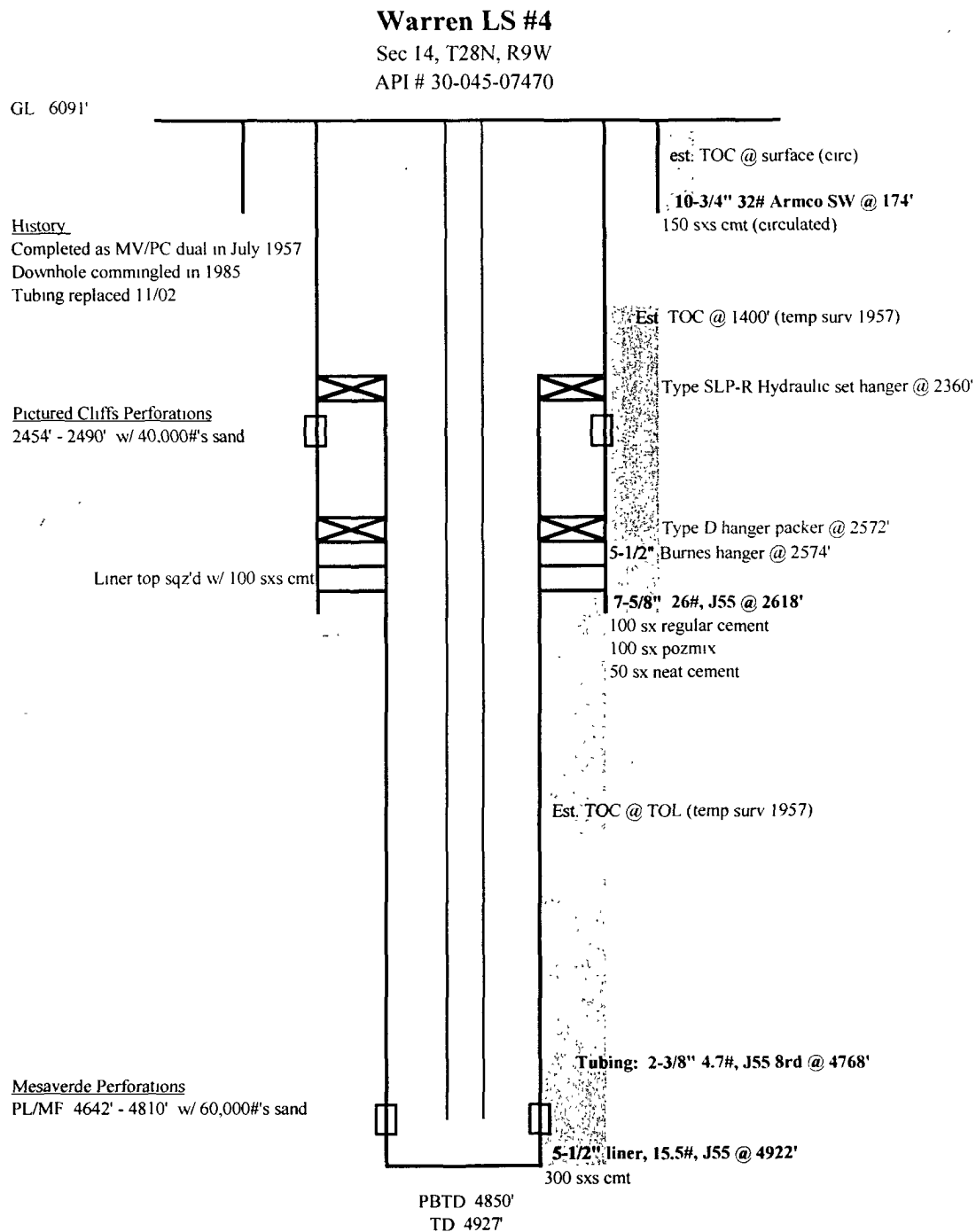
Est. TOC @ TOL (temp surv 1957)

**Tubing: 2-3/8" 4.7#, J55 8rd @ 4768'****5-1/2" liner, 15.5#, J55 @ 4922'**

300 sxs cmt

updated: 5/8/2008 AR

## Proposed Wellbore diagram



updated 5/8/2008 AR

## TIE-BACK LINER TYPE

15053274697

BAKER HUGHES

08 09 52 a.m.

10-27-2007

2/2

PROPOSED WELL COMPLETION  
CUSTOMER: BP

COUNTRY: USA

FIELD: -

DRAWING NO. -

APPROVED BY: -

DRAWN BY: Kyo Nakamura

DATE: 10-10-2007

Baker Oil Tools

WELL NO.	WELL NAME	DESCRIPTION	LOGS	DEPTH
		SLP-R Hanger/Packer		
		Customer Casing		
		Model D Hanger/Packer		
		Model D Hanger/Packer		
		7in Casing Shoe		
		Customer Casing		
		Guide Shoe		

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