Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANGEMENT

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 ☐ Oil Well ■ Gas Well ☐ Other	8 Well Name and No. **Warren Com 2M**
2 Name of Operator **BP AMERICA PRODUCTION COMPANY**	9 API Well No **30-045-25567**
3a. Address **PO BOX 3092 HOUSTON, TX 77253** / 3b. Phone No. *(include area code)* **281-366-4081**	10 Field and Pool, or Exploratory Area **Blanco Mesaverde**
4. Location of Well *(Footage, Sec , T , R., M., or Survey Description)* **985' FSL & 1400' FEL; SEC 14 T28N R09W SWSE**	11 County or Parish, State **SAN JUAN, NM**
	5 Lease Serial No **NM - 04208**
	6 If Indian, Allottee or tribe Name
	7 If Unit or CA/Agreement, Name and/or No

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

TYPE OF SUBMISSION	TYPE OF ACTION			
■ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	■ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Water Disposal	
	☐ Convert to Injection	☐ Plug Back		

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 recomplete 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 recompletion 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 request permission to locate and repair casing leak in the above mentioned well.

Please see the attached procedure.

RCVD JUL31'07
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct
Name (Printed/typed) **Cherry Hlava** Title **Regulatory Analyst**

Signature Cherry Hlava Date **07/27/2007**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **Original Signed: Stephen Mason**	Title	Date **JUL 30 2007**
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 with its jurisdiction.

NMOCD

SJ Basin Well Work Procedure

Well Name: Warren Com 2M DK
API #: 30-045-25567
Date: July 25, 2007
Repair Type: Casing Repair
Location: T28N-R9W-Sec14(O)
County: San Juan
State: New Mexico
Horizon: MV / DK T&A'd
Engr: Andrew Berhost
ph (505) 326-9208

Objective: LOCATE and REPAIR casing leak. Pull tubing, RIH with RBP at set above MV perforations, Pressure test casing, Run casing integrity log, RIH w/ cement retainer, squeeze casing leak (if any), drill out cement, Pressure test plug, pull RBP, run production tubing, and return to production.

1. TOH with completion string.
2. RIH with RBP – set above MV perforations.
3. Pressure test casing
4. Run BlueJet casing integrity log
5. RIH w/ cement retainer
6. Squeeze casing leak
7. Drill out cement plug
8. Pressure test plug
9. Pull RBP
10. Cleanout wellbore
11. Run production tubing
12. Return well to production.

History: Well completed in 4/83 as DK-only. DK was T&A'd in 11/1994 and MV was added. CIBP was placed below MV perforations as the new plug-back TD. Well history shows a large increase in water production starting in late 2003 and a drop in production in mid-2005 w/ erratic casing pressure profile. Since 2005 well has been a habitual swab-in well with production being intermittent but for no longer than a few weeks at a time. Suspect casing leak with formation charging wellbore with water. The well has not shown bradenhead pressure in past reports so suspect interval is below TOC on 7" casing or in the 4-1/2" cased hole area.

Procedure:

1. **Contact State and Federal agencies 24hrs prior to starting well repair work.**

2. 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.

3. Perform second site visit after lines are marked to ensure all lines clear marked pit locations. Planning and scheduling to ready location for rig.

4. 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 tubing string. **X-Nipple @ 4813' and F-Nipple @ 4846'.**

5. Check and record tubing, intermediate casing, casing, and bradenhead pressures. Ensure production casing has double casing valves installed. Double valve all casing strings.

6. MIRU workover rig. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.

7. Blow down well. Kill with 2% KCL water ONLY if necessary.

8. 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.**

9. 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 MV BHP ~750psig. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover.

10. Install stripping rubber, pull tubing hanger and shut pipe rams. Strip tubing hanger out of hole.

11. RIH and tag PBTD @ 4934', then TOOH with 2-3/8" production tubing currently set at 4847'. Visually inspect tubing while POOH.

12. TIH with bit and scraper for 4-1/2" casing to top of MV perforations @ 4120'. TOH.

13. TIH with 4-1/2" RBP. Set RBP just above MV perforations @ 4050'. Spot 1-2' of sand on top of RBP and TOH with workstring. Pressure test RBP and casing.

14. RU WL and run Bluejet casing inspection log from 4050' to surface. Review log and pressure testing results with Engineer for plan of action. **Contact engineer, state, and federal agencies before proceeding on any repair work.**

15. Establish injection rate into leak, if any, to estimate degree of communication, fluid loss, and size of hole. If problem area is shallow attempt to circulate to surface. TOC behind 7" casing is ~900'.

16. RU WL and Perforate thru casing around depth of located leak or problem area – if injection rate into hole is less than 1-2bbl/min.

17. Depending on depth of hole and circulating pressure, a packer or cement retainer may be needed.

18. Mix and pump sufficient cement to circulate to surface if leak found above 900' (Walk squeeze up bradenhead valve is communication is possible). If leak is found below 900' contact engineer for squeeze volumes. In general if the leak below 900' load hole with water volume to 50' below squeeze or perforated area. RIH with cement retainer and pump specified volume of cement by hesitation squeeze method (1000psig max). WOC.

19. TIH with bit and scraper and drill out cement. Pressure test casing to 750 psi. TOH with bit and scraper. Contact engineer if pressure test fails - will need to RIH with a 7" packer to locate leaking interval if pressure test fails. Proceed only when casing pressure test is passed.

20. RU air package and TIH with retrieving head for RBP. Circulate sand off of RBP and TOH RBP.

21. RU WL and tag for fill. Cleanout to PBTD, if needed. TOH.

22. RIH with new 2-3/8" original production tubing, if tubing inspected to be in good condition. (With muleshoe, 1.78" F-nipple with plug, 4 ft pup, 1.87" X-nipple with plug).

23. Land 2-3/8" production tubing at +/- 4815'. Lock down tubing hanger.

24. 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.**

25. 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.

26. RU WL unit. Run gauge ring for 2-3/8" tubing. Pull plugs and set tubing stop for plunger. Communicate plunger equipment status to IC room personnel.

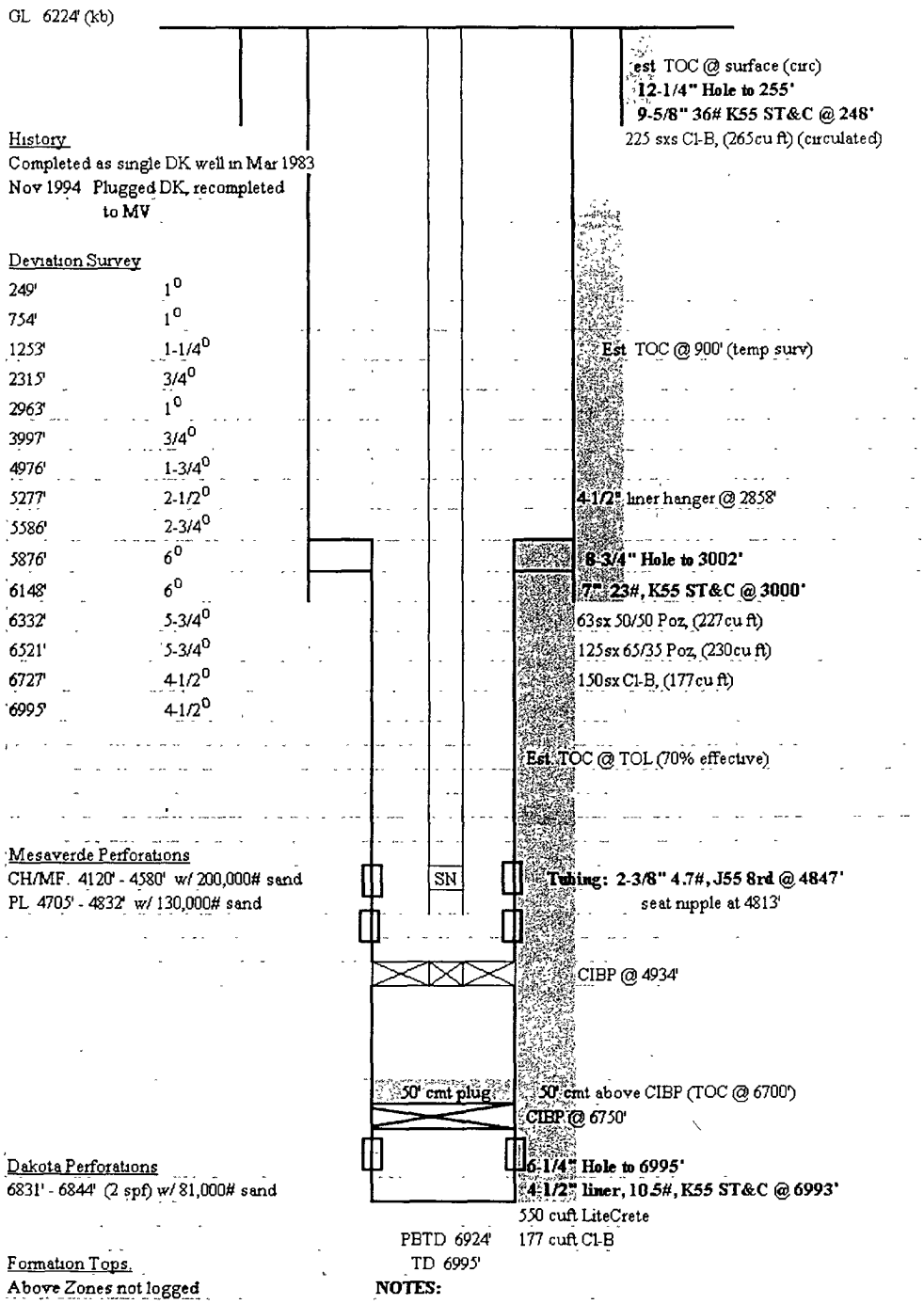
27. RD slickline unit.

28. Test well for air. Return well to production. RD and release all equipment. Remove all LOTO equipment.

29. Ensure all reports are loaded into DIMS. Print out summary of work and place in Wellfile. Have discussion with production about particulars of well when handing off the well file.

Warren Com #2M

Sec 14, T28N, R9W
API # 30-045-25567
Lease SN - NM-04208



History
Completed as single DK well in Mar 1983
Nov 1994 Plugged DK, recompleted to MV

Deviation Survey

249'	1°
754'	1°
1253'	1-1/4°
2315'	3/4°
2963'	1°
3997'	3/4°
4976'	1-3/4°
5277'	2-1/2°
5586'	2-3/4°
5876'	6°
6148'	6°
6332'	5-3/4°
6521'	5-3/4°
6727'	4-1/2°
6995'	4-1/2°

Mesaverde Perforations
CH/MF. 4120' - 4580' w/ 200,000# sand
PL 4705' - 4832' w/ 130,000# sand

Dakota Perforations
6831' - 6844' (2 spf) w/ 81,000# sand

Formation Tops.
Above Zones not logged

Chacra	3387'
Cliffhouse	4107'
Menefee	4129'
Pt Lookout	4698'
Mancos	5058'
Gallup	5878'
Dakota	6707'

NOTES:

updated: 6/13/07 ADB