

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED  
OMB NO. 1004-0137  
Expires March 31, 2007

## 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

## 2. Name of Operator

BP AMERICA PRODUCTION COMPANY

## 3a. Address

P.O. BOX 3092, RM 6.115, HOUSTON, TX 77253

## 3b. Phone No. (include area code)

281-366-2052

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

UL G, SECTION 10-T18S-R27E  
1650' FNL & 2310' FEL

## 5. Lease Serial No.

NM-IC-065478-B

## 6. If Indian, Allottee or Tribe Name

## 7. If Unit or CA/Agreement, Name and/or No.

NM-NM-70945X

8910138010

## 8. Well Name and No.

EMPIRE ABO UNIT N  
#11

## 9. API Well No.

30-015-00856

## 10. Field and Pool, or Exploratory Area

EMPIRE ABO

## 11. County or Parish, State

EDDY

NM

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

## TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

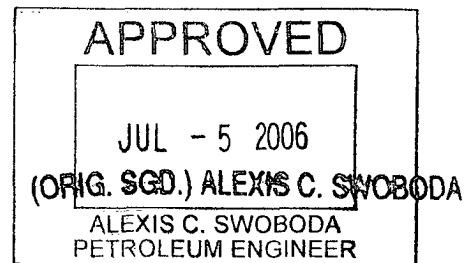
☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other WORKOVER-ON EXPIRED TA WELL

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 final site is ready for final inspection.)

REFER TO NOTICE OF WRITTEN ORDER #06-IN-02 DATED 03/29/06 & SUNDRY NOTICE DATED 04/25/06 GIVING EXTENSION TO DATE OF 06/29/06 BY ALEXIS SWOBODA

DRILL OUT CIBP 7, ADD PERFS TO EXISTING PERMITTED FORMATION, & RETURN TO PRODUCTION VIA ROD PUMP: (SEE ATTACHED PROCEDURE & WELLBORE SCHEMATIC)

- 1) DRILL OUT CIBP @ 5882'
- 2) PUMP 30 BBLs. OF XYLENE TREATMENT (OR NALCO PARAFFIN CHEMICAL)
- 3) ADD 3 PERF INTERVALS: 5882-90', 5896-5904', & 5910-16' W/2 JSPP
- 4) ISOLATE NEW PERFS WITH RBP & TREATING PACKER
- 5) ACIDIZE NEW PERFS WITH 3000 GALS. 15% HCL
- 6) RELEASE RBP & PACKER
- 7) RIH WITH TBG & TAC @ APPROX. 5800'
- 8) SET SN @ APPROX. 5950'
- 9) RIH WITH PUMP & RODS
- 10) RD, PU & CLEAN LOCATION
- 11) MONITOR WELL FOR RESULTS



Accepted for record  
NMOCD

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

SUE SELLERS

Title

REGULATORY STAFF ASSISTANT

Date

06/27/06

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

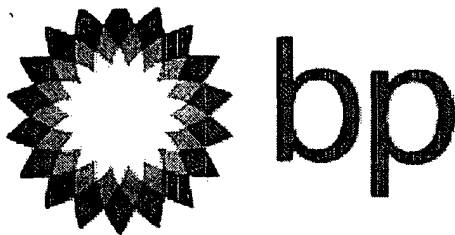
Title

Date

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, makes 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.



## WORKOVER PROCEDURE

### EAU N-11: DO CIBP, Perforate Upper Abo, Run Prod. Equipment, Convert to Pump

DATE: 6/7/06

PAY KEY #:

WELL: EAU N-11

DRILLED: 3/3/60

FIELD: EAU

COUNTY: Eddy, NM

BY: Kyle Golson

TD: 6172

PBTD: 5958 (CR w/ cmt underneath)

DATUM: 11' KB

CASING:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:						
INTERMEDIATE:	8 5/8"	24#	J-55	1505		Circ.
PRODUCTION:	4.5"	9.5#	J-55	6189	270	
LINER:	None					

TUBING: 1 @ 25 2 3/8 4.7# EUE 8RD J-55;

MUD ANCHOR:

SEATING NIPPLE:

PACKER:

PERFORATIONS: 5925-29', 5933-36', 5940-44' (Closed w/ CIBP @ 5899); CR @ 5958' w/ cmt beneath

HISTORY AND BACKGROUND: TA'd 5/14/92

SCOPE OF WORK: Drill out CIBP treat, perforate abo interval, convert to rod pump.

## PROCEDURE

### MIRU, POOH with W/O Rig:

1. COMPLETE SAFETY MEETING AND JSAS PRIOR TO RU PU.
2. SPOT TRUCK AND BLOWDOWN PIT & SHUT IN UNIT. HOOK UP TO BLOWDOWN PIT & BLEED WELL DOWN.

Hazard	Effect	Mitigation
Gas, H2S, or fluid release	Possible injury or death to personnel, damage to equipment & environment	<ul style="list-style-type: none"><li>➤ Pre job inspection of hose and piping equipment</li><li>➤ Check all connections &amp; make sure all are tight</li></ul>

Hazard	Effect	Mitigation
High pressure pumping equipment	Possible injury or death to personnel, damage to equipment	<ul style="list-style-type: none"><li>➤ Line of fire practices</li><li>➤ Pressure test lines</li></ul>

3. MIRU PU

Hazard	Effect	Mitigation
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H2S	Possible injury or death to personnel, or other people damage to equipment or wellbore or environment	<ul style="list-style-type: none"> <li>➤ Monitor H2S levels continuously</li> <li>➤ Pre job inspection of H2S equipment and Breathing equipment</li> <li>➤ Available phone contacts in case gas escapes into environment</li> <li>➤ All employees H2S trained.</li> </ul>
High pressure pumping equipment	Possible injury or death to personnel, damage to equipment	<ul style="list-style-type: none"> <li>➤ Line of fire practices</li> <li>➤ Pressure test lines</li> </ul>
Pulling Unit Equipment Failure Objects falling from derrick	Possible injury or death to personnel, damage to equipment or wellbore	<ul style="list-style-type: none"> <li>➤ Inspection of derrick</li> <li>➤ Pre job inspection of rig after RU.</li> </ul>

4. INSTALL BOP
5. POH WITH TBG AND LAY DOWN (1 JT.)
6. PICK UP 2 3/8" WORKSTRING AND RIH W/ DRILL COLLARS AND DRILL BIT TO CIBP @ 5882'

### Drill Out CIBP @ 5882':

7. MIRU FOAM AIR UNIT
8. BEGIN DRILLING ON PLUG. KNOCK OUT PLUG AND CHASE TO BOTTOM.
9. RDMO REVERSE UNIT, POOH W/ WORKSTRING, DRILL COLLARS & BIT.

### Xylene Treatment (or Nalco Paraffin Chemical)

1. PUMP 30 BBL XYLENE OR NALCO PARAFFIN CHEMICAL (HAND) DOWN THE CASING.

Hazard	Effect	Mitigation
High pressure pumping equipment	Possible injury or death to personnel, damage to equipment	<ul style="list-style-type: none"> <li>➤ Line of fire practices</li> <li>➤ Pressure test lines</li> </ul>
Dropped pipe in hole	Possible damage to well	<ul style="list-style-type: none"> <li>➤ Pipe handling practices – slips, clamps, tongs, complete MU/BO before lifting as appropriate</li> </ul>
Drop pipe in derrick	Possible injury or death to personnel, damage to equipment	<ul style="list-style-type: none"> <li>➤ Line of fire practices</li> <li>➤ Inspection of lifting equipment</li> </ul>
Loss of well control	Possible injury to personnel, damage to wellbore, damage to environment	<ul style="list-style-type: none"> <li>➤ Install pressure control – BOP's (change pipe rams)</li> <li>➤ Have TIW valve on floor – capable of stabbing in 4 1/2" LTC &amp; full opening</li> <li>➤ Frequent BOP drills</li> </ul>
Falling from height	Possible injury or death to personnel	<ul style="list-style-type: none"> <li>➤ Use work platform</li> <li>➤ 100% tie-off</li> </ul>

### Perforate 3 intervals 5882-90', 5896-5904', & 5910-16' w/ 2 jspf.

1. PU 2 3/8" TBG, CSG SCRAPER & BIT.
2. RIH W/ SCRAPER & BIT, TAG PB @ 5958. (PB DEPTH DEPENDS ON CIBP ON BOTTOM) POOH.

Hazard	Effect	Mitigation
High pressure pumping equipment	Possible injury or death to personnel, damage to equipment	<ul style="list-style-type: none"> <li>➤ Line of fire practices</li> <li>➤ Pressure test lines</li> </ul>
Dropped pipe in hole	Possible damage to well	<ul style="list-style-type: none"> <li>➤ Pipe handling practices – slips, clamps, tongs, complete MU/BO before lifting as appropriate</li> </ul>
Drop pipe in derrick	Possible injury or death to personnel, damage to equipment	<ul style="list-style-type: none"> <li>➤ Line of fire practices</li> <li>➤ Inspection of lifting equipment</li> </ul>
Loss of well control	Possible injury to personnel, damage to wellbore, damage to environment	<ul style="list-style-type: none"> <li>➤ Install pressure control – BOP's (change pipe rams)</li> <li>➤ Have TIW valve on floor – capable of stabbing in 4 ½" LTC &amp; full opening</li> <li>➤ Frequent BOP drills</li> </ul>
Falling from height	Possible injury or death to personnel	<ul style="list-style-type: none"> <li>➤ Use work platform</li> <li>➤ 100% tie-off</li> </ul>

3. RU E-LINE & LUBRICATOR. USING EXISTING GR-CCL LOG, IF AVAILABLE, PERFORATE 5882-90', 5896-5904', & 5910-16' @ 2 JSPF(3 1/8" SLICK GUNS, .42" ENTRY HOLE & 36.7" PENETRATION ON 4 WL RUNS) USING GREY WL.
4. RD E-LINE & LUBRICATOR. PU TREATING PKR (FROM HUDSON PKR) & RIH W/ 2 3/8" TBG & TOOL.
5. ISOLATE NEW ZONE'S (5882-5916) WITH RBP & TREATING PACKER.
6. ACIDIZE ZONE WITH 3000 GAL 15% HCL (SEE ATTACHED HALLIBURTON ACID JOB.)
  - a. FLUSH WITH 250 GAL HCL.
  - b. PUMP 2500 GAL HCL.
  - c. FLUSH WITH 250 GAL HCL.
  - d. FLUSH WITH FULL LOAD OF WATER (TUBING LOAD + CASING BETWEEN PKR & RBP) APPROX 24 BARRELS OF 2% KCL WATER.
8. RELEASE RBP & PKR, POOH W/ TOOLS & TBG.

#### Run Pump & Production Equipment:

1. RIH WITH TBG & SET TAC @ ~5800'
2. SET SN @ ~5950' (AS DEEP AS POSSIBLE, DEPENDING ON PB) WITH 2 3/8 4' PERFORATED/SLOTTED SUB W/ BP.
3. RIH WITH PUMP AND RODS. SEE ATTACHED ROD STAR SUMMARY FOR ROD DESIGN.
4. HANG WELL ON. LOAD AND TEST.
5. TURN PUMP ON.
6. RDMO PU AND CLEAN LOC.
7. MONITOR WELL FOR RESULTS

Prepared by: Kyle Golson

REVIEWED BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

#### Abbreviated Artificial Lift Design

**Project:** EAU N-11 Artificial Lift Revision

**New Rod Design:**

Grade/Material	Size (Inches)	Footage	Number of Rods
C	7/8"	2500	100
C	3/4	2600	104
C	7/8"	850	34

**Comments:** \_\_\_\_\_

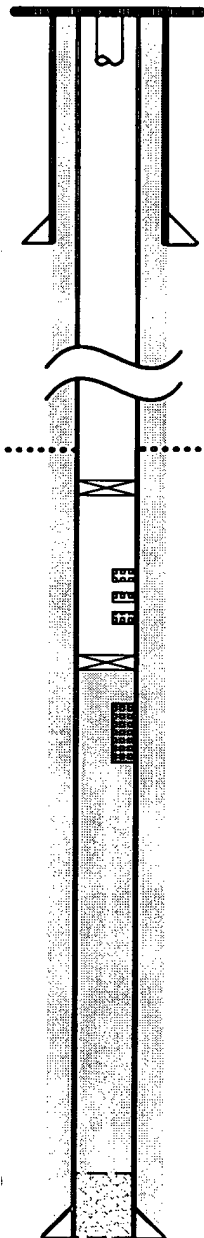
**Pump Requirements:** Pump: 2x1.25x18'

**Pumping Unit Requirements:** American C-320-256-144  
Stroke Length @ 107.7" (3<sup>rd</sup> hole).  
Speed @ 7 spm

# Empire Abo Unit 'N' 11

Potential  
Perforation  
Zones

43'



--- KB at 3485' above sea level (Used as the Datum)  
Well is currently shut in

--- Top of Cement at surface  
1jt 2 3/8" tubing left in hole

--- 8-5/8" - 24# casing set at 1505' (11" hole)

--- Top of Abo at 5882'

--- CIBP set at 5899'

--- Perforations 5925' - 5929' Closed in w/ CIBP

--- Perforations 5933' - 5936' Closed in w/ CIBP

--- Perforations 5940' - 5944' Closed in w/ CIBP

--- CR set at 5958' w/ cmt beneath

--- Perforations 5972' - 5994' Squeezed off

--- FBTD at 6138'

--- 4-1/2" - 9.5# casing set at 6172' (7 7/8" hole)