

AUG - 4 2009

Form C-103
May 27, 2004

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 87240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

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|---|
| WELL API NO. 30.015.01689 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 647 |
| 7. Lease Name or Unit Agreement Name: Empire Abo Unit "F" |
| 8. Well Number 30 |
| 9. OGRID Number 00778 |
| 10. Pool name or Wildcat Empire Abo ✓ |

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> | 2. Name of Operator BP America Production Company |
| 3. Address of Operator P.O. Box 1089 Eunice NM 88231 | 4. Well Location Unit Letter <u>F</u> : <u>1980</u> feet from the <u>N</u> line and <u>1980</u> feet from the <u>W</u> line Section <u>33</u> Township <u>17S</u> Range <u>28E</u> NMPM County <u>Eddy</u> |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3668' GR | |
| Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/> Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____ Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____ | |

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐
 OTHER: Add upper Abo perfs ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
 CASING TEST AND CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

TD: 6155' PBID: 6116' Perfs: 6046'-6056', 6064'-6080'

1. MIRU PU and place approx. 6200' of 2 3/8" EUE 8R J-55 work string on racks. Check tbq, csg & surface pipe for pressures - bleed any fluids into containment. RU pump truck, load & test tbq to 500 psi using 2% KCL water.
2. Remove stuffing box, unseat pump and POH. Visually inspect rods while POH and ID damaged equipment. If necessary, hot oil rods and tbq before POH-assure that NALCO paraffin dispersant is mixed w/oil.
3. Kill well w/ 2% KCL water, monitor to assure that well remains static, ND WH and install BOP. After BOP NU, function test rams. CONTINUED ON PAGE 2.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Barry C. Price TITLE Area Operations Team Lead DATE 7/30/09
 E-mail address: barry.price@bp.com
 Type or print name Barry C. Price Telephone No. 575-394-1648

For State Use Only

APPROVED BY [Signature] TITLE Geologist DATE 8/4/2009
 Conditions of Approval, if any: _____

4. **IF tubing tested OK and rod wear did not indicate problems**, POH and stand-back production tubing; otherwise, LD all tubing and plan on using work string for production installation.
5. PU work string and make trip with 3 7/8" bit & 4 1/2" casing scraper to bottom reported as +/- 6113'.
6. RU WL truck w/ lubricator. TIH w/ 3 1/8" casing gun, correlate to **COMPUTALOG GR - CBL / CCL log dated 2/6/91** and tag bottom - record WL measurement of TD. Perf Abo intervals from bottom to top as listed below w/ 1 JSPF @ 120° phasing & .40 EHD (100' = 100 holes). Monitor well after perfing to assure that it remains static; RD WL equipment.

| Depth | Feet | Holes | Check-Off |
|---------------|------------|------------|-----------|
| 5786' - 5796' | 10 | 10 | |
| 5800' - 5810' | 10 | 10 | |
| 5832' - 5852' | 20 | 20 | |
| 5857' - 5877' | 20 | 20 | |
| 5904' - 5924' | 20 | 20 | |
| 5933' - 5953' | 20 | 20 | |
| Totals | 100 | 100 | |

7. Prep to acidize perfs 5886' - 5953' as follows:
 - A. TIH w/ 4 1/2" RBP & treating pkr on 2 3/8" tbg. Set RBP @ 6000', set pkr immediately above plug, RU Halliburton & test RBP and tbg to 2000 psi.
 - B. Release pkr and pull to bottom perf @ 5953'. Circulate hole clean w/ 2% KCL water and spot 4 bbls 15% HCL acid from 5953' - 5706'.
 - C. Pull pkr to approx 5660' and re-set. Load 4 1/2" x 2 3/8" annulus & test to 500 psi; hold pressure and monitor throughout acid job. RU to tubing, breakdown perfs - limit max pressure to 4000 psi - pump spot acid away and attempt to establish injection rate prior to starting 15% acid in tubing. ***Discuss breakdown and injection results with the HES Service Supervisor and determine plan for spacing ball sealers and pumping acid stages to obtain most effective treatment.***
8. Treat perfs 5886' - 5953' with total of 7500 gals 15% HCL LST-NE acid and 150 biodegradable ball sealers – flush to bottom perf with 27 bbls 2% KCL water. Limit maximum pressure to 3500 psi and attempt to get a rate of 4 – 5 BPM.

Report the following in DIMS: (A) break-down pressure and initial pump-in rate; (B) Max and Min treating pressures; (C) Average Treating Rate; (D) Average Treating Pressure; (E) ISIP and 5 – 10 – 15 min SIP's or elapsed time until well goes on vacuum; and (F) response from ball sealers. RD HES.

9. Swab test new perfs 5886' - 5953' and report results to Production Engineer to determine if any modifications to pump / rod design are needed. Minimize time spent swabbing – timely communicate results with Engineer so that a decision can be made ASAP on any design changes.
10. Release pkr, lower to RBP, latch onto and release RBP. POH LD work string (if not to be used as replacement tubing string), pkr & RBP.
11. Run production tubing as listed – note that RKB or this well is 0' for spacing out equipment.

| | |
|-----------|--------------------------------|
| 1 | 2 3/8" Perfed Sub w/ bull plug |
| 1 | 2 3/8" API Seating Nipple |
| 1 | 2 3/8" EUE 8R J-55 IPC jt |
| +/- 320' | 2 3/8" EUE 8R J-55 tbg |
| 1 | 4 1/2" x 2 3/8" TAC |
| +/- 5750' | 2 3/8" EUE 8R J-55 tbg |

Land SN @ approx 6100' RKB & TAC @ approx 5750' RKB w/ 15K - 18K lbs of tension.

12. Monitor well to assure that it remains static – if necessary, kill well with 2% KCL water. ND BOP and install wellhead equipment required for rod pumping installation.
13. Pour 5 gals corrosion chemical into tubing and run pump and rods per Production Engineering design. Seat & space out pump, load tbg w/ 2% KCL water, test tubing w/ 500 psi and check pump action. Hang well on.