

NOV - 1 2008

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

OCD-ARTESIA

Form C-103  
May 27, 2004

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



WELL API NO. 30-015-01581	
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 "C"	
8. Well Number 34	
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.)

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>K</u> : <u>1650</u> feet from the <u>S</u> line and <u>2260</u> feet from the <u>W</u> line Section <u>27</u> Township <u>17S</u> Range <u>28E</u> NMPM County <u>Eddy</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3677' 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: ☐

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
Approval Granted providing work is complete by 2/3/09  
OTHER: ☐

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

1. MIRU PU. Check csg and surface pipe for pressures - bleed any fluids into containment. Pressure test 5 1/2" csg 0' - 5800' with 500 psi, monitor well & assure it's static. ND WH, install adaptor flange & NU BOP. Re-test csg & blind rams w/ 500 psi. (Note: if csg fails pressure test, will have to locate leak prior to setting any plugs.)
2. RU WL truck and lubricator, test lubricator to 500 psi. Run GR - CBL/CCL tools to determine depth of DV tool and TOC outside of 5 1/2" csg; monitor CBL response while TIH to determine approximate TOC & identify the presence of any bridging outside of csg. Tag CIBP @ 5800' and pull CBL to TOC.

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 10/30/08  
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 PhD Hansen TITLE AR DATE 11/3/08  
Conditions of Approval, if any:

2. (Continued) : Report depth of DV and TOC to Dan Westmoreland and agree on any necessary changes to these procedures. **These procedures assume (a) the DV tool will be below the Glorieta zone and (b) the TOC will be above the Glorieta zone.**
3. PU 2 3/8" tubing & GIH w/ bull plugged perf nipple to CIBP @ 5800' and spot 25 sx Class "C" onto CIBP (5800' – 5560' = 240' plug). Pull EOT to above cement top and circulate hole w/ 9.0 ppg mud laden fluid containing 1250 lbs of gel per 100 bbl of water.
4. POH to 100' below DV tool depth and spot 25 sx Class "C", top of plug should be approximately 140' above DV tool.
5. POH & LD tbg to 3535' (estimated top of Glorieta = 3484'). Spot 25 sack cmt plug from 3535' – 3295'. Pull above plug, WOC and then tag. If top of plug OK (tagged above 3434'), POH & LD tbg.

**Contingency if TOC is below top of Glorieta:**

- A. RU WL truck & lubricator, test lubricator with 1000 psi. Perf 5 1/2" csg w/ 4 squeeze holes @ 3535' = 51' below top of Glorieta. RD WL equip.
- B. TIH w/ pkr on 2 3/8" tbg & set @ 3200' = 8 bbls of displacement to perfs. RU cementer, mix & pump 50 sx Class "C". Wash pump and lines and displace cement to 3385' = approx 4 bbls below pkr. WOC, release pkr and tag plug. If top of plug OK (tagged above 3434'), POH LD all tbg & pkr.
6. RU WL truck. RU lubricator & test w/ 500 psi. TIH w/ csg gun & perf 5 1/2" casing @ 1100'. POH and RD WL equip.
7. RU to casing and attempt to pump into perfs @ 1100' and establish circ to surface via 8 5/8" x 5 1/2" annulus – limit maximum pressure to 500 psi. If circulating freely, mix and pump cement down casing until good cement returns to surface via 8 5/8" x 5 1/2" annulus (estimated to require 275 sx); shut down pumping, shut-in wellbore and leave 5 1/2" casing full of cement. If BOP remains installed while cementing, clear it of any cement. Go to STEP #9.

**Contingency if able to pump into perfs @ 1100' but unable to circulate to surface.**

- A. Run pkr and set at approx 775'. Squeeze perfs w/ 50 sx; wash-up pump & lines and displace cement to 3 bbls below packer (to approx 900'). SWI & WOC. Tag plug, if OK (tagged above 950') POH & LD tbg.
- B. RU WL truck & lubricator - test lubricator w/ 500 psi. TIH w/ casing gun & perf 5 1/2" casing @ 570' = 50' below top of Yates @ 520'. POH & RD WL equip. If circulating freely, mix and pump cement down 5 1/2" casing until good cement returns to surface via 8 5/8" x 5 1/2" annulus and leave 5 1/2" full of cement (est 145 sx). Go to STEP #9 if cement circulated from 550'.

**If unable to pump into perfs @ 570',**

- C. Contact NMOCD and receive approval to spot 25 sk inside plug from 570' – 340'. WOC & tag plug, if OK (tagged above 470'), RU WL truck & lubricator - test lubricator w/ 500 psi. TIH w/ casing gun & perf 5 1/2" casing @ 60'. Pump down 5 1/2" casing and circ cement to surface via 8 5/8" x 5 1/2" annulus and leave 5 1/2" full of cement (estimated 15 sx). Go to STEP #9 if cement circulated from 60'.

**If unable to pump into perfs @ 60',**

- D. Contact NMOCD and receive approval to spot 10 sk inside plug from 100' – 0'.
8. If necessary after POH w/ tbg, fill well bore with cement to 3' below GL.
9. ND BOP & RD PU. Notify Darryl Sonnier (432 / 557-8713) that the P&A has been completed and location is ready for cut-off operations.
10. Dig out WH and cut all casings and WH's to 3' below original GL or at base of cellar, whichever is deeper, and install regulation Dry Hole Marker - 4" OD pipe x 10' long with the following permanently inscribed information: (1) well name & number; (2) operator name; (3) lease serial number **647**; (4) survey data: quarter – quarter section or footages from section line, section, township, range; and (5) date of final abandonment.

**Empire Abo Unit "C" #34**

Empire Abo Field

API No. 30-015-01581

1650' FSL &amp; 2260' FWL

Sec 27 - T17S - R28E

Eddy County, New Mexico

**Present Status**

TA'd 6/2/76

RKB 11.0'

GL 3677'

Rector Head - 65/8"

Spud  
TDEvent  
Date

5/31/62

6/16/62

Yates 520'

Queen 1322'

8 5/8" @ 1000'  
Cmt'd w/ 350 sx

6/2/62

Calculated TOC @ 3041'

Glorieta 3484'

DV @ depth not recorded w/ 450 sx 50 50 POZ

Abo Green Shale 5678'

CIBP @ 5800', no cmt cap

6/2/76

Abo 5987'

5987' - 6000' w/ 4 SPF Treated w/ 5000 gals

6032' - 6041' w/ 4 SPF Treated w/ 4000 gals

6045' - 6048' w/ 4 SPF Treated w/ 3000 gals

6052' - 6056' W 4 SPF Treated w/ 3000 gals

6/18/62

5 1/2" @ 6176' TD, DV @ depth not in well records  
Stage 1 100 sx reg

6/17/62

6144' PBD

6176' TD

Stage 2 450 sx 50/50 POZ

DCD 9/15/08

**Empire Abo Unit "C" #34**  
Empire Abo Field

API No. 30-015-01581

1650' FSL & 2260' FWL  
Sec 27 - T17S - R28E  
Eddy County, New Mexico

**Proposed P&A**

TA'd 6/2/76

RKB 11.0'

GL 3677'

Shoe - Yates - Top  
Plugs 275 sx  
Perf @ 1100', circ cmt  
to surface & fill 5 1/2"  
0' - 1100'

Yates 520'

Queen 1322'

Glorieta Plug  
25 sx  
3295' - 3535'  
TAG

Glorieta 3484'

Isolation Plug - DV  
25 sx  
Depths to be Determined  
Covers DV Tool

Abo Plug  
Cap CIBP @ 5800'  
25 sx to approx 5560'

Abo Green Shale 5678'

Abo 5987'

EAU  
"C"  
#34

8 5/8" @ 1000'  
Cmt'd w/ 350 sx

Calculated TOC @ 3041'

DV @ depth not recorded w/ 450 sx 50.50 POZ

CIBP @ 5800', no cmt cap

5987' - 6000' w/ 4 SPF Treated w/ 5000 gals  
6032' - 6041' w/ 4 SPF Treated w/ 4000 gals  
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6052' - 6056' W 4 SPF Treated w/ 3000 gals

5 1/2" @ 6176' TD, DV @ depth not in well records  
Stage 1 100 sx reg

Stage 2 450 sx 50/50 POZ

Spud	Event Date
TD	5/31/62
	6/16/62
	6/2/62
	6/2/76
	6/18/62
	6/17/62

PCD 9/15/08

6144' PBD  
6176' TD