

Submit 3 Copies To Appropriate District Office  
District I  
1625 N French Dr., Hobbs, NM 88240  
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

Form C-103  
May 27, 2004

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

WELL API NO. <b>30 - 015 - 01688</b>
13. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
13. State Oil & Gas Lease No.

SUDDRY 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)		7. Lease Name or Unit Agreement Name <b>Empire Abo Unit "G"</b>
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	8. Well Number <b>29</b>	9. OGRID Number <b>000778</b>
2. Name of Operator <b>BP America Production Company</b>	10. Pool name or Wildcat <b>Empire Abo</b>	
3. Address of Operator <b>P. O. Box 1089 Eunice, New Mexico 88231</b>		
13. Well Location Unit Letter <b>L</b> : <b>1980</b> feet from the <b>South</b> line and <b>660</b> feet from the <b>West</b> line Section <b>33</b> Township <b>17S</b> Range <b>28E</b> NMPM <b>Eddy</b> County		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3667' GR</b>		
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 _____		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPLEMENTS <input type="checkbox"/>	CASING/CEMENT JOBS <input type="checkbox"/>	OTHER: <input type="checkbox"/>

13. Describe proposed or completed operations. (Can be used for permit applications and pertinent dates, including estimated date of starting any proposed work). SEE RULE 111 of the Regulations. Attach wellbore diagram of proposed completion or recompletion.

MIRU Key Energy Services P&A equipment on 7/3/07 and installed BOP. On 7/5/07, RU pump truck & tested 4 1/2" csg to 600 psi, OK. Tested BOP w/ 500 psi, OK. TIH w/ tbg to CIBP @ 5760', circ'd hole w/ 9.5 ppg mud laden fluid and spotted 25 sx on CIBP. Bottom plug set 5390' - 5760' = 370' (top of plug estimated). Pulled tbg to 3592' and spotted 30 sx cmt across top of Glorieta @ 3480'. Glorieta plug set 3160' - 3592' = 432' (top of plug estimated). POH w/ tbg to 1580', spotted 50 sx cmt across top of Queen @ 1234' and surface csg shoe @ 1000'. POH & WOC overnight. On 7/6/07, tagged plug @ 1346'. Spotted additional 35 sx of cmt & POH w/ tbg, RU WL & tagged plug @ 840'. Queen and surface casing shoe plug set 840' - 1580' = 740'. Perfed 4 1/2" csg @ 420' = 53' below top of Yates @ 367'. RU cementer & attempted to establish circ down 4 1/2" csg with returns from 8 5/8" x 4 1/2" annulus - did not circ and well went on vacuum after pump shut down. Discussed w/ Mike Bratcher with NMOCD District 2 and received approval to pump cement in attempt to establish circ. Mixed & pumped 115 sx cement down 4 1/2" casing through perfs @ 420' and pumped sufficient displacement to clear perfs of cement - had approx 75 psi ISIP when pumping ceased. SI over weekend. On 7/9/07, pressured 4 1/2" csg to 1000 psi but unable to pump into perfs @ 420'. Pumped into 8 5/8" x 4 1/2" annulus w/ 0 psi - no returns through perfs @ 420'. Made trip w/ tbg to 617' to assure csg was clear to below perfs - OK. On 7/10/07, Apollo WL ran CBL from 800' to surface - indicated good bonding from 405' - 425', void to 160', excellent bonding from 125' - 160' and void to surface. Discussed operational results with Tim Gum of NMOCD District 2 and received approval to complete P&A by filling 4 1/2" csg from 470' to surface and pumping 100 sx cmt into 8 5/8" x 4 1/2" annulus. On 7/10/07, set tbg @ 481', pumped 100 sx Class "C" into 8 5/8" x 4 1/2" annulus @ 100 psi - OK. ND BOP and filled 4 1/2" csg from 481' to surface w/ 40 sx Class "C". POH & LD tbg and SDON. RD pulling unit and P&A equipment on 7/11/07. On 7/18/07, cut-off well heads and anchors to 3' below GL & installed regulation Dry Hole Marker. P&A completed as of 7/18/07.

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 Dan Dodd TITLE Agent for BP America Production Company DATE 7/20/07

Type or print name D. C. Dodd E-mail address: dan.dodd@bp.com Telephone No. 432 / 688-5207

For State Use Only

APPROVED BY: Gerry Guye TITLE Deputy Field Inspector DATE JUL 24 2007  
District II - Artesia

Conditions of Approval (if any):

# **Empire Abo Unit "G" #29**

Empire Abo Field

API No. 30-015-01688

1980' FSL & 660' FWL

Sec 33 - T17S - R28E

Eddy County, New Mexico

(Originally Drilled by Sinclair O&G  
as the M. Yates "B" ARC #4 )

## **Final P&A**

**Yates & Top Plug**  
Perf @ 420', pumped 115  
sx & displaced to clear  
perfs. No circ, ISIP = 75  
psi. Ran CBL. Circ'd 40  
sk plug from 481' - 0'  
inside 4 1/2" csg on  
7/10/07.

Yates 367'  
**Queen - Surface Shoe Plug**  
840' - 1580'  
85 sx  
50 sx @ 1580' on 7/5/07  
Tagged @ 1346' on 7/6/07  
Spot 35 sx @ 1346' &  
tagged @ 840' w/ WL on  
7/6/07.

Queen 1234'

**Glorieta Plug**  
3160' - 3592'  
30 sx  
Set 7/5/07

Glorieta 3480'

**Abo (prod zone) Plug**  
5390' - 5760'  
25 sx  
Set 7/5/07

RKB = GL  
GL = 3667'

Pumped 100 sx cmt  
into 8 5/8" x 4 1/2"  
annulus from top.  
7/10/07

LC while drilling @ 73' - cavity to 81'  
Dry-drilled to 1000' CP

CBL ran 800' to surface. Poor bonding to  
427'. Good bond 427' - 400', no cmt to  
160', good bond 160' - 130'.

8 5/8" 22 7# Slip Jt - SW @ 1000'  
Cmt'd thru shoe w/ 450 sx 50 50 POZ  
& 100 sx reg w/ 2% CaCl (est TOC @ 81')  
Filled cavity w/ pea gravel & circ cmt to surf  
w/ 200 sx reg cont'g 2% CaCl

Original TOC = 1510' by TS, 1562' CBL  
Perf'd 4 1/2" csg @ 1530', cmt'd 4 1/2" x  
8 5/8" ann w/ 375 sx 0-80' no bond, 80-980'  
partial bond, 980-1320' good bond, 1320-1530'  
partial bond (5/07) Drilled out & tested  
squeeze holes to 500 psi, OK

CIBP @ 5760'

5818' - 5822'  
5826' - 5830  
5844' - 5852  
5916' - 5934'

76 holes @ 2 JSPF

5956' - 5990'  
6030' - 6056  
6082' - 6122'

201 holes @ 2 JSPF

Original Comp Perf'd 6122' - 6132' &  
6138' - 6154' w 54 - 1/2" holes Acidize w/  
6000 gals 15% Potential = 180 BO  
flowing on 12/64" w/ 775 psi

4 1/2" 11 6# (5523' - 6200')  
& 9 5# (0' - 5523') J-55 STC  
@ 6200'. Cmt'd w/ 600 sx 50/50 POZ w/  
6% gel & 200 sx 50 50 POZ w/ 2% gel  
TOC by TS = 1510'

5760' PB  
6200' TD

DCD 7/18/07

Event  
Date

Spud  
TD

4/24/60  
5/16/60

7/10/07

4/23/2007

5/10/2007

5/1/2007

3/5/1996

5/20/60

5/17/60