

Office

Energy, Minerals and Natural Resources

May 27, 2004

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

87505

RECEIVED

OIL CONSERVATION DIVISION

FEB 20 2009

HOBBSOCD

220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-025-31903

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil &amp; Gas Lease No.

E-6504

7. Lease Name or Unit Agreement Name

Vacuum Abo Unit, Tract 14

8. Well Number

05

9. OGRID Number

10. Pool name or Wildcat

Vacuum Abo Reef

## 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 ☒ Gas Well ☐ Other ~~Injection~~

2. Name of Operator

ConocoPhillips Company ATTN: Donna Williams

3. Address of Operator

3303 N. "A" Street, Bldg. 6 #247, Midland, Texas 79705-5406

4. Well Location

Unit Letter: L : 1,475 feet from the South line and 430 feet from the West line.

Section 5

Township 18-S

Range 35-E

NMPM

County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3,965' GR 3,977' DF

Pit or Below-grade Tank Application ☐ or Closure ☒Pit type STEEL Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water N/APit Liner Thickness: STEEL mil Below-Grade Tank: Volume 180 bbls; Construction Material STEEL

## 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 COMPL ☐OTHER: ☐

## SUBSEQUENT REPORT OF:

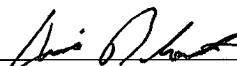
REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐P AND A ☐CASING/CEMENT JOB ☐OTHER: ☐

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.

## SEE ATTACHED PROPOSED PLUGGING PROCEDURE AND WELLBORE DIAGRAMS

The Oil Conservation Division **Must be notified**  
**24 hours prior** to the beginning of plugging operationsI 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

TITLE P&A Technician (Basic Energy Services) DATE 02/16/2009

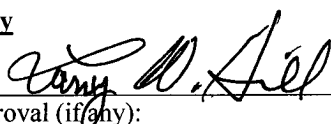
Type or print name: Chris Blanton

E-mail address: chris.blanton@basicenergyservices.com

Telephone No. 432-687-1994

For State Use Only

APPROVED BY:



TITLE

DISTRICT 1 SUPERVISOR

DATE

FEB 23 2009

Conditions of Approval (if any):

**ConocoPhillips Company**  
**Vacuum Abo Unit, Tract 14, Well #5**  
**API #30-025-31903**  
**Vacuum (Abo Reef) Field**  
**Lea County, New Mexico**

## **Proposed Plugging Procedure**

**See attached wellbore diagrams for wellbore configuration**

**Casings:** 13 $\frac{3}{8}$ " 54.5# casing @ 1,585', cmt'd w/ 1,500 sx, circulated  
8 $\frac{5}{8}$ " 32# casing @ 5,200' cmt'd w/ 1,950 sx, TOC 468' by T.S.  
5 $\frac{1}{2}$ " 17 & 15.5# casing @ 8,240' cmt'd w/ 300 sx (1<sup>st</sup> stage), sqz'd w/ 625 sx @  
7,400', TOC 5,420' by T.S.

**Perforations:** 9,070' squeezed w/ 300 sx under CICR @ 9,008'  
8,546 – 8,715'  
External casing packer @ 8,353'  
8,309 – 8,340'  
DV Tool @ 8,305'  
8,295 – 8,308'  
CIBP @ 8,240'  
7,400', squeezed w/ 625 sx

**Tubulars:** none expected

- Contact NM DIGTESS (1-800-321-2537) minimum 48 hrs prior to move-in
- Notify NMOCD & BLM 48 hrs prior to move in, and 4 hrs prior to plugs
- Document daily tailgate safety meetings w/ crews
- Observe ConocoPhillips 10 – 2 – 4 work break program

2 $\frac{3}{8}$ " 4.7# EUE tubing casing capacity = 0.00387 bbls/ft  
5 $\frac{1}{2}$ " 15.5# casing capacity = 0.0238 bbls/ft = 7.4850 ft/ft<sup>3</sup>  
8 $\frac{5}{8}$ " 32# casing capacity = 0.0609 bbls/ft = 2.9223 ft/ft<sup>3</sup>  
13 $\frac{3}{8}$ " 54.5# casing capacity = 0.1546 bbls/ft = 1.1522 ft/ft<sup>3</sup>

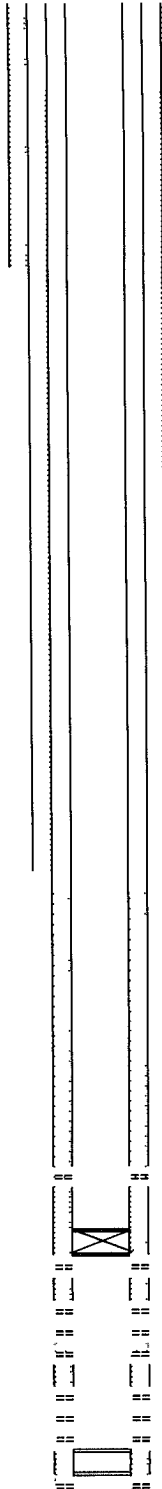
1. Set steel pit, MIRU plugging equipment.
2. ND wellhead and NU 6" 5,000# hydraulic BOP.
3. RIH w/ 2 $\frac{3}{8}$ " workstring tubing and perforated sub, tag CIBP @ 8,240'. RU cementer and displace hole w/ 100 bbls plugging mud. Pump 25 sx C cmt 8,240 – 7,993' (1.32 ft<sup>3</sup>/sk yield, 33.0 ft<sup>3</sup> slurry volume, calculated fill 247' in 5 $\frac{1}{2}$ " 15.5# casing), displacing w/ plugging mud. PUH laying down tubing to 6,750'.

4. Load hole w/ plugging mud and pump 25 sx C cmt 6,750 – 6,503' (1.32 ft<sup>3</sup>/sk yield, 33.0 ft<sup>3</sup> slurry volume, calculated fill 247' in 5½" 15.5# casing) displacing w/ plugging mud. POOH standing back ~5,000' of tbg, laying down remainder. **Tight spot in csg**
5. RU & test lubricator to 1,500 psi. RIH w/ wireline & perforate 5½" casing @ 5,250'. POOH w/ wireline. RD lubricator.
6. RIH w/ AD-1 packer for 15.5# casing to 5,000'. Load hole w/ plugging mud, set packer, and establish rate into perforations at 1,500 psi or less. Squeeze 30 sx C cmt w/ 2% CaCl<sub>2</sub> 5,250 – 5,135' (1.32 ft<sup>3</sup>/sk yield, 39.6 ft<sup>3</sup> slurry volume, calculated fill 115' in 8⅝" casing) displacing w/ plugging mud. WOC & tag this plug no lower than 5,150'. PUH w/ packer laying down tubing. **Intermediate casing shoe plug**
7. RU & test lubricator to 1,500 psi. RIH w/ wireline & tag cmt no deeper than 5,150', PUH and perforate 5½" casing @ 2,653'. POOH w/ wireline. RD lubricator.
8. Load hole w/ plugging mud, set packer, and establish rate into perforations at 1,500 psi or less. Squeeze 30 sx C cmt w/ 2% CaCl<sub>2</sub> 2,653 – 2,538' (1.32 ft<sup>3</sup>/sk yield, 39.6 ft<sup>3</sup> slurry volume, calculated fill 115' in 8⅝" casing) displacing w/ plugging mud. WOC & tag this plug no lower than 2,553'. PUH w/ packer to 1,268' laying down tubing. **Base of Salt plug**
9. RU & test lubricator to 1,500 psi. RIH w/ wireline & tag cmt no deeper than 2,553', PUH and perforate 5½" casing @ 1,730'. POOH w/ wireline. RD lubricator.
10. Load hole w/ plugging mud, set packer, and establish rate into perforations at 1,500 psi or less. Squeeze 55 sx C cmt w/ 2% CaCl<sub>2</sub> 2,653 – 2,538' (1.32 ft<sup>3</sup>/sk yield, 72.6 ft<sup>3</sup> slurry volume, calculated fill 212' in 8⅝" casing) displacing w/ plugging mud. WOC & tag this plug no lower than 1,535'. POOH w/ packer laying down tubing. **Top of Salt/Casing shoe plug**
11. RU & test lubricator to 1,500 psi. RIH w/ wireline & tag cmt no deeper than 1,535', PUH and perforate 5½" casing @ 60'. POOH w/ wireline. RD lubricator.
12. PUH w/ tubing to 60'. Circulate 45 sx C cmt 60' to surface (1.32 ft<sup>3</sup>/sk yield, 59.4 ft<sup>3</sup> slurry volume, calculated fill 68' in 13⅝" 54.5# casing). **Surface plug**
13. POOH w/ tubing, top off wellbore w/ cmt as needed. ND BOP.
14. RDMO location.
15. Cut off wellhead and anchors, install dry hole marker. Level location. Leave location clean and free of trash.

**WELLBORE SKETCH**  
**ConocoPhillips Company -- Lower 48 - Mid-Continent BU / Permian Operations**

Date: January 15, 2009

RKB @ 3978'  
 DF @ 3977'  
 GL @ 3964.7'



17-1/2" Hole

TOC 8-5/8" Csg @ 468' (T.S.)

13-3/8" 54.5# K-55 ST&C @ 1585'  
 Cmt'd w/1500 sx Class C, circ 20 sx to surf.  
 TOC @ Surface  
 Top Salt @ 1680'

Base Salt @ 2603'

11" Hole

8-5/8" 32# K-55 ST&C @ 5200'  
 Cmt'd w/1950 sx Class C  
 TOC @ 468' (T.S.)

TOC @ 5420' (T.S.)

Note: TIGHT SPOT IN CASING  
 @ 6700' - 6730'

7400' - Sqz perf - Sqz w/625 sx  
 TOC 5-1/2" Csg @ 7510' (T.S.)

5-1/2" CIBP @ 8240'

8295-8308

DV Tool @ 8305'

8309-8324

8325-8340

8344' -- Sqz perf - Sqz w/ 100 sx

External Casing Packer @ 8353'

8546 - 8586

8606-8616 8673-8683

8695-8715

Cement Retainer @ 9008'

9070' - Sqz Perf - Sqz w/300 sx

7-7/8" Hole

5-1/2" 17# & 15 5# J-55 @ 9100'

Cmt'd 1st Stage: 300 sx Class H

PBTD 8240'  
 TD 9100'

Subarea Buckeye  
 Lease & Well No Vacuum Abo Unit Tract 14, Well No 5  
 Legal Description : 1475' FSL & 430' FWL, Sec. 5, T-18-S, R-35-E, Unit Letter "L"  
 County Lea State : New Mexico  
 Field Vacuum (Abo Reef)  
 Date Spudded 4/17/93 Rig Released  
 API Number 30-025-31903  
 Status.

State Lease No. E-6504

**Stimulation History:**

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
	4/19/93	Plugged back with 350 sacks Class H cmt to correct crooked hole.						
	4/21/93	Spot 400 sx Class C cmt @ 775' to plug crooked hole						
	4/23/93	Plugged back surface hole w/800 sacks Class H to correct crooked hole TOC @ 600'						
	5/22/93	Lost circulation, spot 450 sx Thixotropic and 450 sx Class H cement						
	6/8/93	Perforate 5-1/2" csg @ 9070' - pump 300 sx Class H						
	6/11/93	Perforate 5-1/2" csg @ 8344', pmp 150 sx Thixotropic TOC @ 7510' (T.S.)						
	6/14/93	Perforate 5-1/2" Csg @ 7400', pmp 625 sx, TOC @ 5420' (T.S.)						
	6/19/93	Sqz 5-1/2" csg perf @ 8344' w/100 sx						
	7/8/93	Perf 8673-8683 and 8695-8715, 64 holes						
8673-8715	7/13/93	15% Fercheck SC	4,000		3800	1400	3.5	
	7/15/93	Perforate 8606-8616, 22 holes						
8606-8616	7/15/93	15% Fercheck	3,000					
8606-8616	7/19/93	15% Fercheck	2,000					
	7/20/93	Perforate 8546-8586						
	7/22/93	Perforate 8295-8308, 8309-8324, 8325-8340						
8295-8340	7/23/93	15% Fercheck	6,000	45 BS	2964	Vac	5.0	
	6/11/94	Set 5-1/2" CIBP @ 8240'; Temporarily Abandon						

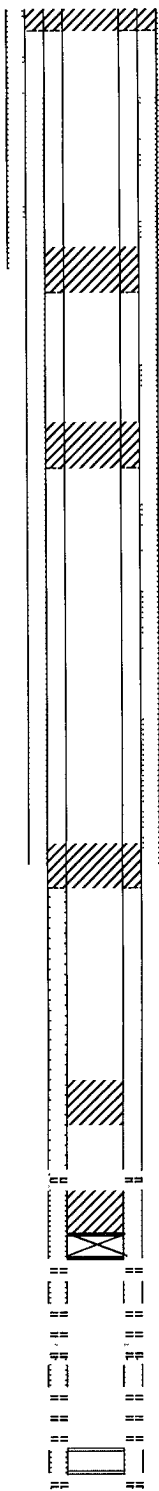
**Casing Detail Top to Bottom:**

17# J-55 LT&C	29 jts
15 5# J-55 LT&C	153 jts
17# J-55 LT&C	26 jts

**PROPOSED PLUGGED WELLBORE SKETCH**  
**ConocoPhillips Company -- Lower 48 - Mid-Continent BU / Permian Operations**

Date 2/16/2009

RKB @ 3978'  
 DF @ 3977'  
 GL @ 3964.7'



PBTD 8240'  
 TD 9100'

17-1/2" Hole  
**Perf & sqz 45 sx C cmt 60' to surface**

**TOC 8-5/8" Csg @ 468' (T.S.)**

13-3/8" 54.5# K-55 ST&C @ 1585'  
 Cmt'd w/1500 sx Class C, circ 20 sx to surf.  
**TOC @ Surface**  
**Perf & sqz 55 sx C cmt w/ 2% CaCl<sub>2</sub> 1,730 - 1,518' WOC & TAG**  
 Top Salt @ 1680'

**Base Salt @ 2603'**  
**Perf & sqz 30 sx C cmt w/ 2% CaCl<sub>2</sub> 2,653 - 2,538' WOC & TAG**

11" Hole  
 8-5/8" 32# K-55 ST&C @ 5200'  
 Cmt'd w/1950 sx Class C  
**TOC @ 468' (T.S.)**  
**Perf & sqz 30 sx C cmt w/ 2% CaCl<sub>2</sub> 5,250 - 5,135' WOC & TAG**  
**TOC @ 5420' (T.S.)**

Note: TIGHT SPOT IN CASING  
 @ 6700' - 6730'  
**Pump 25 sx C cmt @ 6,750 - 6,503'**

7400' - Sqz perf - Sqz w/625 sx  
**TOC 5-1/2" Csg @ 7510' (T.S.)**  
**Pump 25 sx C cmt @ 8,240 - 7,993'**  
 5-1/2" CIBP @ 8240'  
 8295-8308  
 DV Tool @ 8305'  
 8309-8324  
 8325-8340  
 8344' - Sqz perf - Sqz w/ 100 sx  
 External Casing Packer @ 8353'  
 8546 - 8586  
 8606-8616 8673-8683  
 8695-8715  
**Cement Retainer @ 9008'**  
 9070' - Sqz Perf - Sqz w/300 sx  
 7-7/8" Hole  
 5-1/2" 17# & 15.5# J-55 @ 9100'  
 Cmt'd 1st Stage: 300 sx Class H

Subarea : Buckeye  
 Lease & Well No. : Vacuum Abo Unit Tract 14, Well No. 5  
 Legal Description : 1475' FSL & 430' FWL, Sec 5, T-18-S, R-35-E, Unit Letter "L"  
 County : Lea State : New Mexico  
 Field : Vacuum (Abo Reef)  
 Date Spudded : 4/17/93 Rig Released:  
 API Number : 30-025-31903  
 Status : Proposed Plugged  
 State Lease No. E-6504

**Stimulation History:**

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
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8295-8340	7/23/93	15% Fercheck	6,000	45 BS	2964	Vac	5.0	
	6/11/94	Set 5-1/2" CIBP @ 8240'; Temporarily Abandon						



**Proposed Plugs**

- 1 Tag CIBP, verify depth
- 2 Pump 25 sx C cmt @ 8,240 - 7,993'
- 3 Pump 25 sx C cmt @ 6,750 - 6,503'
- 4 Perf & sqz 30 sx C cmt w/ 2% CaCl<sub>2</sub> 5,250 - 5,135' WOC & TAG
- 5 Perf & sqz 30 sx C cmt w/ 2% CaCl<sub>2</sub> 2,653 - 2,538' WOC & TAG
- 6 Perf & sqz 45 sx C cmt 60' to surface
- 7 Top off wellbore w/ cmt if needed

**Casing Detail Top to Bottom:**

17# J-55 LT&C 29 jts  
 15 5# J-55 LT&C 153 jts  
 17# J-55 LT&C 26 jts

Chris Blanton  
 2/17/2009