Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
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

Form C-103
Revised August 1, 2011

WELL API NO. 30-025-37431

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name
Vacuum Abo Unit
Tract 13

1. Type of Well: Oil Well [X] Gas Well [ ] Other

8. Well Number 24

2. Name of Operator ConocoPhillips Company

9. OGRID Number 217817

3. Address of Operator P. O. Box 51810
Midland, TX 79710

10. Pool name or Wildcat
Vacuum; Abo Reef

4. Well Location
Unit Letter C : 1230 feet from the North line and 1430 feet from the West line
Section 4 Township 18S Range 35E NMPM County Lea

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3936' GL

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

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | [ ] | PLUG AND ABANDON | [ ] | REMEDIAL WORK | [ ] | ALTERING CASING | [ ] |
| TEMPORARILY ABANDON | [ ] | CHANGE PLANS | [ ] | COMMENCE DRILLING OPNS. | [ ] | P AND A | [ ] |
| PULL OR ALTER CASING | [ ] | MULTIPLE COMPL | [ ] | CASING/CEMENT JOB | [ ] | | |
| DOWNHOLE COMMINGLE | [ ] | | | | | | |
| OTHER: add perf & upgrade to 912 BPU | [X] | | | 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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

ConocoPhillips Company would like to add pay to the Abo Reef @ 8662'-8823' & upgrade to a 912 BPU per attached procedure.

Attached is a current/proposed wellbore schematic.

During this procedure we plan to use the Closed-Loop System and haul content to the required disposal.

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Rhonda Rogers TITLE Staff Regulatory Technician DATE 10/08/2014

Type or print name Rhonda Rogers E-mail address: rogerrs@conocophillips.com PHONE: (432)688-9174

**For State Use Only**

APPROVED BY: TITLE Petroleum Engineer DATE 10/15/14

Conditions of Approval (if any):

OCT 16 2014

# VAU 13-24
## Add Pay/upgrade to 912 BPU
## API# 30-025-37431

**Objective: Perforate Transition Zone, Acidize, and Upgrade 320 BPU to 912 BPU & install VFD**

**Justification: This project will add 106 feet of perforations into the lower Abo transition zone and upgrade the current BPU from (C-320-256-100) to (C-912-365-168) in order to pump this well off. The current BPU cannot be sped up to pump this well down and is carrying a high FAP.**

**Existing Perforations**
Abo: 8,406'-8,648' (242' net)

*Recommended Procedure*

1. MIRU pulling unit. Kill well.

2. NDWH. TOOH & LD rods & pump. Fish rods if needed. Notify Production Engineering Tech when failure has been identified. Send pump and rods in to be inspected. Notify Champion Tech. **Save failed equipment for Production Engineering Tech.**

3. NUBOP. Test BOP. RU scanners. Release TAC. TOOH & scan 2 7/8" Production Tbg. Lay down green and red band Tbg. Stand back yellow and blue band Tbg in derrick. Contact engineer if over 50% of first 100 Tbg Jts test green and red. RD scanners.

4. PU & RIH w/ bit and scraper sized for 5 ½" 17# J-55 casing to PBTD @ 9,149'. Add new or yellow band Tbg replacement Jts to bottom of production string. Report fill by contacting engineer with findings.

5. TOOH w/ bit and scraper. Stand Tbg back in derrick. LD bit & scraper.

6. RU wireline. NU 5000 psi lubricator (note: using lubricator shop tested to 2,000 psi is acceptable). RIH w/ perf guns to perforate using 4" titan gun super deep penetrating EXP-4539-324T (charge size: 40g, Hole size: .52" & pen: 52.13") loaded at 2 SPF to accomplish 120 degree phasing. Perforate as follows:

   **Note: Correlate w/ log dated 5/30/2006 Schlumberger CBL Gamma Ray CCL Log**

| Abo Reef | *Feet* | *Shots* |
|---|---|---|
| 8,662'-8,667' | 5 | 10 |
| 8,684'-8,736' | 52 | 104 |
| 8,755'-8,794' | 39 | 78 |
| 8,802'-8,807' | 5 | 10 |
| 8,818'-8,823' | 5 | 10 |
| Total | 106 | 212 |

7. TOOH w/ perforating gun(s) and inspect to verify number of shots fired. Record information in WellView. RD wireline services.

8. MI lay down machine & 2 7/8" L-80 worksring. RU Hydrotesters. PU & TIH w/ 2 7/8" L-80 workstring & treating packer sized for 5 ½" 17# J-55. Test Tbg below slips @ 8,200 psi. RD and release Hydrotesters.

9. TIH & spot 3 bbls of 15% Ferchek SC Acid @ ~8,823'. Set packer @ 8,654' (between collars 8,623' & 8,666').

10. RU Acid Stimulation Services. Set pump trips @ 7,800 psi. Set treating line pop-off to release @ 8,000 psi. Test surface lines @ 8,700 psi. Pump 9,000 gal (214 bbls) of 15% Ferchek SC Acid to perforations and drop 254 bio ball sealers (anticipated treating pressure: 4,000 psi @ 4-5 BPM, assumes .8 frac gradient). Flush with 51 bbls of brine water. A remote ball launcher and $N_2$ operated relief valve are required. Ensure spring operated relief valve installed, set no higher than 500 psi, on the 2 7/8" x 5 ½" Annulus. Record ISIP, SITP (5 min), SITP (10 min), SITP (15 min).

Acid BreakDown (212 total perforations) w/ 214 bbl (9,000 gal) 15% Ferchek SC Acid w/ 254 bio balls:

1. Pump 43 bbl 15% Ferchek SC Acid
2. Pump 127 bbl 15% Ferchek SC Acid. Drop 254 balls evenly spaced (~2 ball/bbl)
3. Pump 44 bbl 15% Ferchek SC Acid

Note: If ball out occurs (>6,000 psi treating pressure), SD & surge perfs 3 times

11. RDMO Acid Stimulation Services.

12. SIW for 2 hours. Flow back if well has surface pressure. Relieve any remaining pressure on 2 7/8" x 5 ½" workstring-casing annulus.

13. Release packer. TOOH & LD work string and packer.

14. RU Hydrotesters. PU & RIH w/ OESN, new TK 99 bottom JT, TAC, and 2 7/8" 6.5# production Tbg. Add replacement Jts to the bottom of the Tbg string. Hydrotest Tbg to 6000 psi below collars while RIH. RD Hydro-testers

15. Land the SN @ 8,850' and TAC @ ~8,474'. Land TBG in hanger.

16. NDBOP, NUWH. PU & RIH w/ 1 ½" pump & rod string. Space pump, hang well on,

17. Notify MSO to sign off on well.

18. RDMO

19. Place well on Production.

# CURRENT SCHEMATIC

ConocoPhillips

## VACUUM ABO UNIT 013-024

| District | Field Name | API / UWI | County | State/Province |
|---|---|---|---|---|
| PERMIAN CONVENTIONAL | VACUUM | 300253743100 | LEA | NEW MEXICO |

| Original Spud Date | Surface Legal Location | E/W Dist (ft) | E/W Ref | N/S Dist (ft) | N/S Ref |
|---|---|---|---|---|---|
| 3/23/2006 | SEC 4, TWP 18S, R35-E | 1,430.00 | W | 1,230.00 | N |

VERTICAL - Original Hole, 10/8/2014 4:41:12 PM