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

Amend

Form C-103
Revised August 1, 2011

| | |
|---|---|
| WELL API NO. 30-025-20864 | |
| 5. Indicate Type of Lease STATE [X] FEE [ ] | |
| 6. State Oil & Gas Lease No. B-1527 | |
| 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 Glorieta East Unit Tract 17 |
| 1. Type of Well: Oil Well [ ] Gas Well [ ] Other Injection Well | 8. Well Number 002 |
| 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; Glorieta |
| 4. Well Location Unit Letter I : 2080 feet from the South line and 660 feet from the East line Section 31 Township 17S Range 35E NMPM County Lea | |
| | 11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3978' GR |

HOBBS OCD
JUL 20 2015
RECEIVED

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 pay [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.

Per R-10020-B
ConocoPhillips Company would like to add pay to the Paddock @ 6079'-6196' per attached procedures.
Attached is a current/proposed wellbore schematic.

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 06/15/2015

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 07/21/15

Conditions of Approval (if any):

JUL 21 2015

# VGEU 17-02W
# API #30-025-20864
# ADD PAY

**Project Scope**

**Justification and Background:** **Add 60' of new perforations & acidize all perforations**
All the perforations will be acidized and rock salt will be used for diversion. The pay add will target the Paddock dolomite beneath the limestone flood to provide pressure support from the bottom. The pay add will also help with the water handling issues that will occur as the new drill program begins. This well was targeted due to low injectivity. The expected oil response from offset producers is a conservative 5 bopd uplift at a low decline rate of 6%.

**Perforations**

| Type | Formation | Top | Bottom |
|---|---|---|---|
| Perforations | Paddock | 6,048' | 6,076' |
| PBTD | | 6,251' | |
| TD | | 6,300' | |

**Well Service Procedure:**

1) MIRU pulling unit. Kill well.

2) NDWH, NUBOP. Test BOP. Release packer & TOOH w/ 2 3/8" 4.7# J-55 IPC production Tbg. Visually inspect all Tbg out of hole. Stand back in derrick. Lay down packer.

3) MI lay down machine. PU & TIH w/ bit & scraper sized for 5 1/2" 15.5# K-55 casing on 2 7/8" 6.5# L-80 workstring to PBTD @ 6,251'.

4) TOOH w/ bit & scraper on work string. Stand back work string in derrick. LD bit & scraper.

5) MIRU wireline services. NU 5000 psi lubricator (note: use lubricator shop tested to 2,000 psig is acceptable) and RIH w/ perf guns to perforate using 4" Titan Slick Gun w/ super deep penetrating charges (ch-40g, eh-0.52", pen-52.13") or equivalent loaded at 4 SPF to accomplish 120 degree phasing. Perforate as follows:

**Note: Correlate w/ Radial Cement Bond Gamma Ray / CCL Log dated 8/19/2013**

| Lower Blinebry | Feet | Shots |
|---|---|---|
| 6,079' – 6,099' (Proposed) | 20 | 80 |
| 6,112' – 6,132' (Proposed) | 20 | 80 |
| 6,176' – 6,196' (Proposed) | 20 | 80 |
| Total | 60 | 240 |

6) TOOH with perforating guns and inspect to verify number of shots fired. ND lubricator. **RD and release wireline services.**

7) RU hydro-test services. PU & RIH w/ treating packer on work string testing to 8,200 psig below slips. Set packer @ 5,820' (between collars 5,808' – 5,834') (5.4 bbl capacity between packer and top perf). Load backside & test packer to 500 psi surface pressure.

8) 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 (6,048' – 6,196') and

# VGEU 17-02W
# API #30-025-20864
# ADD PAY

drop 6,000 lbs of rock salt (anticipated treating pressure: ~3,500 psi @ 4-5 BPM, assumes .9 frac gradient). Flush with 36 bbls of brine water. 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 Stimulation

a) Pump, establish and record injection rate and pressure w/ field brine water
b) Pump 1,500 gallons (~36 bbls) of acid
c) Pump 24 bbls (1,000 gal.) of field brine water containing up to a .5#/gal concentration of rock salt (500 lbs) as diverting agent (concentration bases on injection rate / pressure response of existing perforations)
d) Pump 1,500 gallons (~36 bbls) of acid
e) *If pressure increase is marginal on .5#/gal then proceed with 1#/ gal.*
f) Pump 24 bbls (1,000 gal.) of field brine water containing up to a 1#/gal concentration of rock salt (1,000 lbs) as diverting agent (concentration bases on injection rate / pressure response of existing perforations).
g) Pump 1,500 gallons (~36 bbls) of acid
h) Repeat step f & g until acid is put away (~2 more salt stages, ~3 more acid stages @ 1,500 gallons)
i) Displace acid treatment w/ 36 bbls of brine water

Note 1: Pressure may not allow for all the rock salt to be pumped.
Note 2: If interval screens off, release pressure, back flush to open top frac tank, then return to acid stimulation.

9) Obtain ISIP. Continue monitoring and recording for 15 minutes following shut-in (every 5 minutes).

10) RD stimulation equipment. Check pressures and bleed pressure down on casing & Tbg. MI lay down machine. Release packer and TOOH. LD work string & packer.

11) RU wireline services. NU lubricator. RIH w/ new Nickle Coated injection packer, XN profile nipple (with plug in profile), and On/Off tool (seal nipple). Set packer @ ~6,006' (same depth as existing). ND lubricator and release wireline services. **(See proposed Tbg Design attachment)**

12) RU Hydro-test services. PU & RIH w/ 2 3/8" 4.7# J-55 IPC production Tbg testing to 5,000 psi below slips. Release Hydro-test services.

13) Circulate packer fluid to surface (6,006 x **0.0178 bbl/ft** = 107 bbls). Latch onto On/Off tool.

14) RU pump truck and chart recorder w/ 1000 psi chart to casing and pressure test casing/packer to 500 psi for 35 mins. **Note: Notify the NMOCD of the impending test**

15) Land Tbg in hanger. NDBOP. NUWH.

16) RU wireline services. NU lubricator. RIH & retrieve plug from 1.875" profile. TOOH w/ plug. ND lubricator & release wireline services.

17) Notify MSO to sign off on well and return well to injection.

18) Give chart to Production Engineering Tech TO send to COP regulatory.

19) RDMO

# CURRENT SCHEMATIC

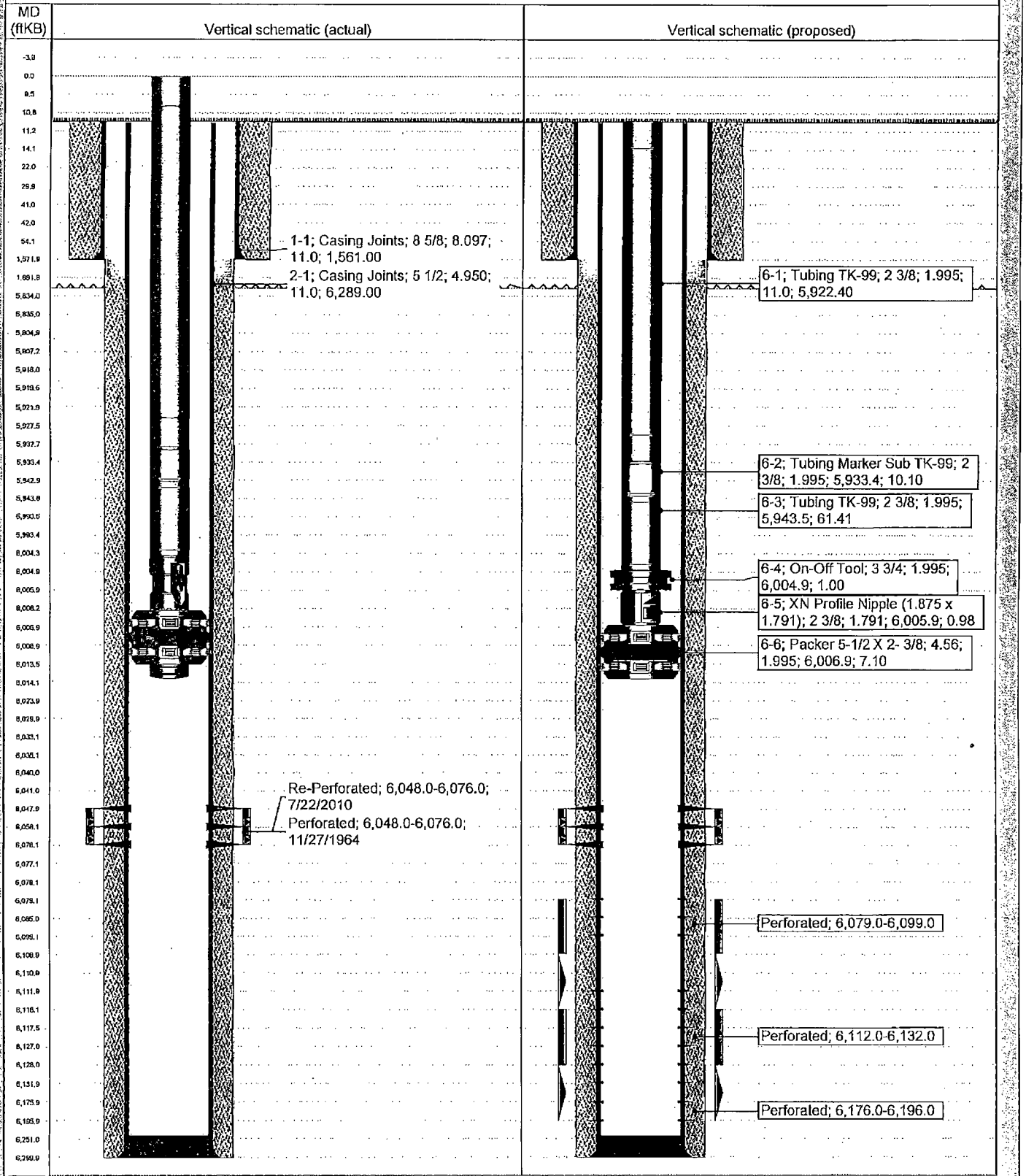
ConocoPhillips

## VACUUM GLORIETA EAST UNIT 017-02

| District | Field Name | API / UWI | County | State/Province |
|---|---|---|---|---|
| PERMIAN CONVENTIONAL | VACUUM | 3002520864 | LEA | NEW MEXICO |

| Original Spud Date | Surface Legal Location | E/W Dist (ft) | E/W Ref | N/S Dist (ft) | N/S Ref |
|---|---|---|---|---|---|
| 11/5/1964 | Sec. 31, T-17S, R-35E | 660.00 | E | 2,080.00 | S |

VERTICAL - MAIN HOLE, 6/1/2015 1:23:03 PM






Report Printed: 6/1/2015