Submit 1 Copy To Appropriate District Office	State of Nev		Form C-103			
District I – (575) 393-6161	Energy, Minerals and	Natural Resources	Revised August 1, 2011 WELL API NO.			
1625 N. French Dr., Hobbs, NM 88240 District H – (575) 748-1283			30-025-20864			
811 S. First St., Artesia, NM 88210	OIL CONSERVAT		5. Indicate Type of Lease			
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St.		STATE X FEE			
<u>District IV</u> – (505) 476-3460	Santa Fe, N	M 87505	6. State Oil & Gas Lease No.			
1220 S. St. Francis Dr., Santa Fe, NM 87505			B-1527			
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLI	ICES AND REPORTS ON WI OSALS TO DRILL OR TO DEEPEN C CATION FOR PERMIT" (FORM C-1	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name Vacuum Glorieta East Unit Tract 17			
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well  Other Injection	n WellOBBS OCD	8. Well Number 002			
Name of Operator ConocoPhill	ins Company	II W GILLOUDO OCD	9. OGRID Number 217817			
3 Address of Operators 0. 5	5.1010	JUN 0 4 2015	10. Pool name or Wildcat			
3. Address of Operator <sub>P. O. Box</sub> Midland, 7	51810 CX 79710		Vacuum; Glorieta			
4. Well Location		DECENTED	Vacuum, Giorieta			
i	2080 feet from the Sou	<b>RECEIVED</b> th line and 660	feet from the East line			
Section 31	Township 17S	Range 35E	NMPM County Lea			
Section 51	11. Elevation (Show whethe					
*6	3978' GR	,,,	· · · · · · · · · · · · · · · · · · ·			
NOTICE OF IN PERFORM REMEDIAL WORK  TEMPORARILY ABANDON  PULL OR ALTER CASING  DOWNHOLE COMMINGLE  OTHER: add pay  13. Describe proposed or comp	Deleted operations. (Clearly statork). SEE RULE 19.15.7.14 Noompletion.  like to add pay to the Paddock ellbore schematic.	SUB REMEDIAL WOR COMMENCE DR CASING/CEMEN  OTHER: e all pertinent details, an IMAC. For Multiple Co  @ 6079'-6196' per attack	BSEQUENT REPORT OF:  RK			
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Spud Date:	Rig Relea	se Date:				
I hereby certify that the information	above is true and complete to	the best of my knowledg	ge and belief.			
SIGNATURE Show	TITLE S	taff Regulatory Technici	ian DATE 06/01/2015			
Type or print name Rhonda Rogers	F-mail a	ddress: rogerrs@conoco	5p̃hillips.com PHONE: (432)688-9174			
For State Use C	L-midil at	access. Togotts(Weottoe)	,			
		Petroleum Enginee	er on last.			
APPROVED B'r: Conditions of Approval (if any):	TITLE_		DATE <u>07/0///</u>			

# 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

# ConocoPhillips

### **CURRENT SCHEMATIC**

## **VACUUM GLORIETA EAST UNIT 017-02**

API / UWI State/Province PERMIAN CONVENTIONAL VACUUM 3002520864 LEA **NEW MEXICO** Original Spud Date Surface Legal Location E/W Dist (ft) F/W Ref N/S Dist (ft) N/S Ref 11/5/1964 Sec. 31, T-17S, R-35E 660.00 E VERTICAL - MAIN HOLE, 6/1/2015 1:23:03 PM MD (ftKB) Vertical schematic (actual) Vertical schematic (proposed) 0.0 9,5 11.2 14.1 22.0 29.9 42.0 1-1; Casing Joints; 8 5/8; 8.097; 1,571.8 11.0; 1,561.00 2-1; Casing Joints; 5 1/2; 4.950; 6-1; Tubing TK-99; 2 3/8; 1.995; 1.691.9 11.0; 5,922.40 11.0; 6,289.00 5,834.0 5.904.9 5,907.2 5 9 1 9 6 5 921.9 5,927.5 6-2; Tubing Marker Sub TK-99; 2 3/8; 1.995; 5,933.4; 10.10 5.942.9 5,943.6 6-3; Tubing TK-99; 2 3/8; 1.995; 5,990.5 5,943.5; 61.41 5,993.4 6-4; On-Off Tool; 3 3/4; 1.995; 6,004.9; 1.00 6 005 9 6-5; XN Profile Nipple (1.875 x 1.791); 2 3/8; 1.791; 6,005.9; 0.98 6-6; Packer 5-1/2 X 2- 3/8; 4.56; 1.995; 6,006.9; 7.10 6.013.5 6,014.1 6 020 0 6,033.1 6,035.1 6 040 0 Re-Perforated; 6,048.0-6,076.0; 7/22/2010 Perforated; 6,048.0-6,076.0; 6.056.1 11/27/1964 6 078 1 6,079. 6 099 1 6,108.9 6,111.9 6.116.1 6,117.5 Perforated; 6,112.0-6,132.0 6.128.0 6.131.9 Perforated; 6,176.0-6,196.0 6.251.0 6,299.9 Report Printed: 6/1/2015 Page 1/1