

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

Form C-103
Revised August 1, 2011

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

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.)		WELL API NO. 30-025-03049
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator ConocoPhillips Company		6. State Oil & Gas Lease No.
3. Address of Operator P. O. Box 51810 Midland, TX 79710		7. Lease Name or Unit Agreement Name Vacuum Abo Unit Tract 13
4. Well Location Unit Letter F : 1650 feet from the North line and 1980 feet from the West line Section 4 Township 18S Range 35E NMPM County Lea		8. Well Number 011
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3944' GR		9. OGRID Number 217817
		10. Pool name or Wildcat Vacuum; Abo Reef

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 ☐
DOWNHOLE COMMINGLE ☐

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

OTHER: remove BP & re-perf ☒

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 remove BP @ 8696' & 8779' over existing perfs and then re-perf and stimulate to bring back on to production.

Attached are procedures.

Attached is a current and 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 09/24/2014

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

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 09/26/14

Conditions of Approval (if any):

SEP 26 2014 dm

VAU 13-11
API # 30-025-03049
Remove plugs and re-activate old perfs

Objective: his project will drill out two bridge plugs, re-perforate the previous perforations that were plugged with cement (81' of re-perfs), and acidize all perforations below the top CIBP.

Existing Perforations

Abo: 8,332'-8,684' (352' net)

Pressure/Well Control

Well Category: One
BOP Class: Two

ROE:

MCFPD	H2S: ppm	ROE: feet	
		100 ppm	500 ppm
15,000	15,000	47	22

PROCEDURE

1. MIRU pulling unit and ancillary equipment. Kill well.
2. NDWH. TOO H w/ rods & pump. Fish rod string. Send pump to shop for inspection. NUBOP. Test BOP.
3. RU Tbg scanners. Release TAC & TOO H with 2 7/8" 6.5# J-55 EUE production Tbg. LD Green & Red band Tbg for removal. Stand back Yellow & Blue band Tbg in derrick. RD Tbg scanners. **Report Tbg scan results in WV.** Notify Production Specialist when failure has been identified. Notify Champion Tech. **SAVE FAILED EQUIPMENT FOR PRODUCTION SPECIALIST.**
4. MI lay down machine. PU 2 7/8" J-55 work string & RIH w/ bit sized for 5 1/2" 17# N-80 Casing (PU drill collars for weight as needed). RU Swivel & drill out cement from ~8,696' to 8,740'. Drill out CIBP @ 8,740'. Drill out cement from ~8,779' to 8,870'. Drill out CIBP @ 8,870'. Drill out CIBP @ 8,950'. Monitor pressure while drilling. RU foam machine if circulation is not established. Tag PBTD @ 9,053'. **Report tag in WV.** Proceed to clean out wellbore to PBTD & circulate well clean.
5. TOO H w/ bit and stand back work string once convinced well bore is clean. LD bit.
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 (eh: .52" & pen: 52.13") loaded at 2 SPF to accomplish 60 degree phasing. Perforate as follows:

Note: Correlate w/ log dated 6/19/1961 McCullough Scintillometer Nuclear Gamma Ray Log.

Abo Reef	Feet	Shots
8,690'-8,700'	10	20
8,706'-8,730'	24	48
8,799'-8,814'	15	30
8,819'-8,833'	14	28
8,839'-8,857'	18	36
Total	81	162

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

8. RU Hydrotesters. TIH w/ packer and work string to 8,870'. Hydrotest work string to 6,000 psi. RD Hydrotesters. Spot 5 bbls of 15% Ferchek SC Acid @ 8,870'. Set packer @ 8,630' (between collars 8,620' & 8,653').
9. RU Acid pump truck or stimulation services. Set pump trips @ 5,800 psi. Set treating line pop-off to release @ 5,900 psi. Test surface lines @ 6,500 psi. Pump 6,800 gal (162 bbls) of 15% Ferchek SC Acid to perforations and drop 322 bio ball sealers (anticipated treating pressure: 3,500 psi @ 4-5 BPM). Flush with 56 bbls of brine water. A remote ball launcher and N₂ operated relief valve are required. Ensure spring operated relief valve installed, set no higher than 500 psi, on the 2 7/8" x 5 1/2" Annulus. Record ISIP, SITP (5 min), SITP (10 min), SITP (15 min).

Acid BreakDown (322 total perforations including 81 new) w/ 162 bbl (6,800 gal) 15% Ferchek SC Acid w/ 322 bio balls:

1. Pump 27 bbls 15% Ferchek SC Acid.
2. Start dropping 322 balls evenly spaced (~2 balls/bbl)
3. Pump 27 bbls 15% Ferchek SC Acid.
4. Pump 36 bbls (1500 gal) of brine.
5. Pump 54 bbls 15% Ferchek SC Acid.
6. Pump 36 bbls (1500 gal) of brine.
7. Pump 54 bbl 15% Ferchek SC Acid. All bio balls dropped 8 bbls into stage.
8. Flush 56 bbls of brine

Note: If ball out occurs (>5,500 psi treating pressure), SD & surge perfs 3 times

TREATING LINE TEST PRESSURE: A minimum 500 psig over MAWP. Acceptable test will be no more than 300 psi leak off in 5 minutes, with no more than 1% leak off in last minute, AND NO VISIBLE LEAKS.	6,500	PSIG
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system (COP define 1.2 SF for 3 1/2" L-80 workstring burst)	6,000	PSIG
NITROGEN POP-OFF SETTING: the valve is to be tested prior to pumping, and must pop within 500 psi of set pressure.	5,900	PSIG
TRUCK KILL SETTING	5,800	PSIG
ANTICIPATED TREATING PRESSURE: $TP=(FP+Ph-Tf-Pf)$ Calculated from mid-perf and assumes 8.35# treating fluid w/ 0.9 FG.	3,500	PSIG

10. RDMO Acid Stim Services.
11. SIW for 2 hours. Flow back if well has surface pressure. Relieve any remaining pressure on 2 7/8" x 5 1/2" workstring-casing annulus.
12. Release packer. TOOH & LD work string and packer.
13. RU Hydrotesters. PU & RIH w/ OESN, new TK 99 bottom JT, TAC, and 2 7/8" 6.5# EUE Production Tbg. Hydrotest production string to 6,000 psi. Add new or yellow band Tbg replacement Jts to the bottom of the string. RD Hydrotesters.
14. Land the SN @ 9,000' and TAC @ ~8,283'. Land Tbg in hanger.

15. NDBOP, NUWH. PU & RIH w/ 1 3/4" pump & rod string, space pump, hang well on, notify MSO to sign off on well.
16. RDMO Clean site.
17. Place well on Production.

Proposed Rod and Tubing Configuration

VACUUM ABO UNIT 013-011

VERTICAL - Original Hole: 9/22/2014 1:33:35 PM			Tubing Description					Set Depth (ftKB)		
			Proposed Tubing - Production					9,000.0		
D (ft K B)	Vertical schematic (actual)	Vertical schematic (proposed)	Jts	Item Des	OD Nominal (in)	Nominal ID (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
12	1-1; Casing Joints; 13 3/8; 12.715; 12.0; 293.00	4-1; Polished Rod; 1 1/2; -1.0; 26.00	265	Tubing	2 7/8	2.441	6.50	J-55	8,200.95	8,213.0
34.1	2-1; Casing Joints; 8 5/8; 8.097; 12.0; 2,138.00	4-2; Fiberglass Sucker Rod; 1.23; 25.0; 4,429.00	1	Tubing - Marker Sub	2 7/8	2.441	6.50	J-55	8.10	8,221.1
44.1	3-1; Casing Joints; 5 1/2; 4.950; 12.0; 4,143.00	4-3; Tubing; 2 7/8; 2.441; 12.0; 8,200.95	2	Tubing	2 7/8	2.441	6.50	J-55	62.00	8,283.1
120.1	2-2; Casing Joints; 8 5/8; 7.921; 2,150.0; 1,094.00	4-3; Sucker Rod; 1; 4,454.0; 2,425.00	1	Anchor 5 1/2 X 2 7/8	4.995	2.441			2.85	8,285.9
120.1	3-2; Casing Joints; 5 1/2; 4.892; 4,155.0; 4,945.00	4-4; Sucker Rod; 7/8; 6,879.0; 1,550.00	22	Tubing	2 7/8	2.441	6.50	J-55	682.00	8,967.9
120.1	Perforated; 8,332.0-8,336.0; 2/18/1987	4-4; Tubing - Marker Sub; 2 7/8; 2,441; 8,212.9; 8.10	1	TUBING TK-99	2 7/8	2.441	6.50	J-55	31.00	8,998.9
120.1	Perforated; 8,344.0-8,349.0; 2/18/1987	4-5; Guided Sub; 7/8; 8,429.0; 2.00	1	Pump Seating Nipple	2 7/8				1.10	9,000.0
120.1	Perforated; 8,371.0-8,379.0; 2/18/1987	4-6; Sinker Bar; 1 1/2; 8,431.0; 100.00								
120.1	Perforated; 8,403.0-8,413.0; 2/18/1987	4-7; Guided Sub; 7/8; 8,531.0; 2.00								
120.1	Perforated; 8,413.0-8,429.0; 2/14/1987	4-8; Sinker Bar; 1 1/2; 8,533.0; 100.00								
120.1	Perforated; 8,433.0-8,436.0; 2/14/1987	4-9; Guided Sub; 7/8; 8,633.0; 2.00								
120.1	Perforated; 8,446.0-8,452.0; 2/14/1987	4-10; Sinker Bar; 1 1/2; 8,635.0; 75.00								
120.1	Perforated; 8,456.0-8,460.0; 2/18/1987	Re-Perforated; 8,690.0-8,700.0; 7/18/2014								
120.1	Perforated; 8,530.0-8,542.0; 1/10/1976	4-11; Guided Sub; 7/8; 8,710.0; 2.00								
120.1	Perforated; 8,560.0-8,564.0; 1/10/1976	Re-Perforated; 8,706.0-8,730.0; 7/18/2014								
120.1	Perforated; 8,581.0-8,589.0; 8/21/1975	4-12; Sinker Bar; 1 1/2; 8,712.0; 75.00								
120.1	Perforated; 8,597.0-8,606.0; 8/21/1975	4-13; Guided Sub; 7/8; 8,787.0; 2.00								
120.1	Perforated; 8,642.0-8,648.0; 9/8/1973	Re-Perforated; 8,799.0-8,814.0; 7/18/2014								
120.1	Perforated; 8,657.0-8,662.0; 9/8/1973	Re-Perforated; 8,819.0-8,833.0; 7/18/2014								
120.1	Perforated; 8,666.0-8,674.0; 9/8/1973	4-14; Sinker Bar; 1 1/2; 8,789.0; 75.00								
120.1	Perforated; 8,678.0-8,684.0; 9/8/1973	Re-Perforated; 8,839.0-8,857.0; 7/18/2014								
120.1	Perforated; 8,690.0-8,700.0; 9/8/1973	4-15; Guided Sub; 7/8; 8,864.0; 2.00								
120.1	Perforated; 8,706.0-8,730.0; 4/22/1970	4-16; Sinker Bar; 1 1/2; 8,866.0; 50.00								
120.1	Bridge Plug - Permanent; 4.89; 8,740.0-8,742.0	4-17; Guided Sub; 7/8; 8,916.0; 2.00								
120.1	Perforated; 8,748.0-8,756.0; 4/22/1970	4-18; Sheer Tool XH Body 33K; 2; 8,918.0; 1.00								
120.1	Perforated; 8,760.0-8,770.0; 4/22/1970	4-19; Sinker Bar; 1 1/2; 8,919.0; 50.00								
120.1	Perforated; 8,799.0-8,814.0; 6/22/1961	4-20; Rod Insert Pump; 1 3/4; 8,969.0; 30.00								
120.1	Perforated; 8,819.0-8,833.0; 6/22/1961	4-21; Pump Seating Nipple; 2 7/8; 8,998.9; 1.10								
120.1	Perforated; 8,839.0-8,857.0; 6/22/1961	4-21; Gas Anchor/Dip Tube; 1 1/4; 8,999.0; 1.00								
120.1	Bridge Plug - Permanent; 4.89; 8,870.0-8,872.0									
120.1	Perforated; 8,879.0-8,894.0; 6/22/1961									
120.1	Perforated; 8,897.0-8,909.0; 6/22/1961									
120.1	Bridge Plug - Permanent; 4.89; 8,950.0-8,952.0									
120.1	Perforated; 8,986.0-8,996.0; 6/22/1961									
120.1	Bridge Plug - Permanent; 4.89; 9,064.0-9,066.0									

Rod Description					Set Depth (ftKB)	
Proposed Rod					9,000.0	
Jts	Item Des	OD (in)	API Grade	Len (ft)	Btm (ftKB)	
1	Polished Rod	1 1/2		26.00	25.0	
118	Fiberglass Sucker Rod	1.23		4,429.00	4,454.0	
97	Sucker Rod	1	D Spec KD	2,425.00	6,879.0	
62	Sucker Rod	7/8	D Spec KD	1,550.00	8,429.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,431.0	
4	Sinker Bar	1 1/2	C	100.00	8,531.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,533.0	
4	Sinker Bar	1 1/2	C	100.00	8,633.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,635.0	
3	Sinker Bar	1 1/2	C	75.00	8,710.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,712.0	
3	Sinker Bar	1 1/2	C	75.00	8,787.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,789.0	
3	Sinker Bar	1 1/2	C	75.00	8,864.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,866.0	
2	Sinker Bar	1 1/2	C	50.00	8,916.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,918.0	

Rod Description					Set Depth (ftKB)	
Proposed Rod					9,000.0	
Jts	Item Des	OD (in)	API Grade	Len (ft)	Btm (ftKB)	
1	Polished Rod	1 1/2		26.00	25.0	
118	Fiberglass Sucker Rod	1.23		4,429.00	4,454.0	
97	Sucker Rod	1	D Spec KD	2,425.00	6,879.0	
62	Sucker Rod	7/8	D Spec KD	1,550.00	8,429.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,431.0	
4	Sinker Bar	1 1/2	C	100.00	8,531.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,533.0	
4	Sinker Bar	1 1/2	C	100.00	8,633.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,635.0	
3	Sinker Bar	1 1/2	C	75.00	8,710.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,712.0	
3	Sinker Bar	1 1/2	C	75.00	8,787.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,789.0	
3	Sinker Bar	1 1/2	C	75.00	8,864.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,866.0	
2	Sinker Bar	1 1/2	C	50.00	8,916.0	
1	Guided Sub	7/8	D Spec KD	2.00	8,918.0	