

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

Energy, Minerals and Natural Resources

Revised August 1, 2011

HOBBBS

FEB 17 2012

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

RECEIVED

WELL API NO. 30-025-02238
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT
8. Well Number 77
9. OGRID Number 4323
10. Pool name or Wildcat VACUUM GRAYBURG SAN ANDRES

## 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 ☐

2. Name of Operator

CHEVRON U.S.A. INC.

3. Address of Operator

15 SMITH ROAD, MIDLAND, TEXAS 79705

4. Well Location

Unit Letter M: 10 feet from the SOUTH line and 1310 feet from the WEST line

Section 36

Township 17-S

Range 34-E

NMPM

County LEA

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

## 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: INTENT TO ACIDIZE &amp; ROD PUMP

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.

CHEVRON U.S.A. INC. INTENDS TO CONVERT TO ROD PUMP &amp; ACIDIZE THE SUBJECT WELL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, &amp; C-144 INFO.

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

TITLE: REGULATORY SPECIALIST

DATE: 02-16-2012

Type or print name: DENISE PINKERTON

E-mail address: [leakejd@chevron.com](mailto:leakejd@chevron.com)

PHONE: 432-687-7375

APPROVED BY:

TITLE

STAFF MEMBER

DATE

2-20-2012

Conditions of Approval (if any):

FEB 20 2012

## **CVU #77**

**Job: Convert to Rod Pump and Acidize**

**API No. 30-025-02238**

**Lea County, NM**

### **Workover Procedure:**

#### **RIGLESS / PRE-WORK:**

1. Ensure location is of adequate build and construction. Ensure anchors have been pull tested within last 24 months. Ensure compliance with MCA SWP / distance to electrical power lines – complete electrical variance if necessary. Caliper and inspect tubing elevators each time tubing diameters are changed and at the beginning of each work day.

#### **WITH RIG:**

2. MIRU PU.
3. Record tubing and casing pressures for kill weight mud calculations. Kill well.
4. Ensure well is dead & ND wellhead.
5. NU 5M hydraulic BOP with blind rams in bottom and 2-3/8" pipe rams in top & 3M hydraulic annular. Ensure BOP is delivered with good stump test documentation (will not be able to test BOP due to ESP cable).
6. Caliper and inspect elevators and lifting equipment. RU Centrilift tubing spooler. Pick on tubing string and ensure that ESP is not stuck.
7. If ESP is not stuck, drop bar on drain valve @ 4513'
8. TOH standing back 2-3/8" L-80, 4.7# 8RD EUE production tubing and ESP.
9. PU 5-1/2" 17# packer & set @ 30'. Test pipe rams and annular to 250/500 psi for 5 minutes each. LD test joint and packer.
10. TIH with 4-3/4" MT bit & 6 x 3 1/2" DCs on 2-3/8" L-80 work string. Cleanout to PBTD @ 4685' (Note: There is a old motor and seal in hole from 4685' – 4710'. Catch samples of returns and have Baker Petrolite analyze the samples.
11. TOH stand back WS & LD C/O assembly.
12. TIH with notched collar, 19 jts 2-3/8" L-80 WS for tail pipe (space out so that notched collar will reach close to PBTD @ 4685'), 5 1/2" treating packer (space out so that packer will land

at +/- 4050' & avoid dipping into the open hole), & 2 7/8" SN with spot control valve pre-installed on 2-3/8" L80 tubing.

13. Set packer @ 4050'. Load/test backside to 250 psi. Release packer.
14. If calcium sulfate was identified during clean out, spot 3 drums of SRW-196 scale converter with 15 barrels of FW & spot across Open Hole through the tail pipe with the packer UNSET. As soon as SRW-196 is on spot, pull up hole and set packer @ +/- 3500'.
15. Allow SRW-196 to soak overnight.
16. With packer set @ 3500', apply 250 psi to backside & pump 1000 gals xylene across 4-3/4" Open Hole, flush to bottom of OH section with FW. SI overnight & allow xylene to soak.
17. Retrieve spot control valve with sand line.
18. Flow or swab back xylene load (35 bbls).
19. Unset packer and C/O fill (pump reverse) with notched collar and tail pipe.
20. PUH and reset packer @ 3500'.
21. MIRU Acid Unit. Apply 250 psi to backside & acidize as follows:

Pump acid at 6-8 BPM. Max Pressure = 5000 psi. Acidize perms with 6,000 gallons 15% NEFE HCL as follows:

- 1) 2000 gals 15% NEFE HCL
- 2) 2000# Rock Salt in gelled BW
- 3) 2000 gals 15% NEFE HCL
- 4) 2000# Rock Salt in gelled BW
- 5) 1000 gals 15% NEFE HCL
- 6) 1000# Rock Salt in gelled BW
- 7) 1000 gals 15% NEFE HCL
- 8) Switch to FW to displace to bottom of Open Hole

Note: Adjust Rock Salt volumes based on results of previous drops

22. Shut-in for 1 hour to allow acid to spend.

23. Attempt to flow back load. If well is dead and will not flow, then swab back load (for a maximum of one day).
24. Release packer and TIH to 4685 w/ tail pipe and pump FW to wash salt (pump reverse).
25. Reset packer @ 3500'. Load and test backside to 250 psi.
26. Squeeze per Scale Inhibitor Squeeze Procedure:
- Rig up truck to pump down tubing under packer during well pull
  - Mix 220 gallons SCW358 (scale inhibitor) and 20 gallons of XC-302 with 21 barrels fresh water.
  - Pump the chemical mixture down the tubing under packer.
  - Overflush with 300 barrels fresh or brine water.
  - SI overnight if well is not on vacuum.
27. Unset packer & TOH LD WS & packer.
28. RIH with *new* 2-7/8" 6.5# J-55 production tbg as follows:
- Tubing - 2 7/8" 6.5# J-55  
1 - 2 7/8" x 4' Marker Sub  
2 - Joints 2 7/8" J-55 tubing  
1 - 2 7/8" x 5 1/2" TAC @ 4030'  
Tbg 2 7/8" J-55  
2 - 2 7/8" x 30' Enduroalloy Blast Joints  
1 - SS Mechanical Seat Nipple @ 4635' w/ 1 1/4" x 16' Mule  
Shoed Dip Tube  
1 - 2 7/8" x 4' Plastic Coated Tubing Sub  
1 - 3 1/2" x 24 Slotted Mud Anchor w/Bull Plug
- End of Tubing 4663'
- Load Cell - (If Needed) Danny Acosta
29. Confirm well is dead & ND BOP.
30. NU wellhead.

31. RIH w/ pump and rods as follows:

1 – 1 ½" X 26' SM Polish Rod w/1" pin & PR coupling (Garner)  
1 – Set 1" Norris 97 Pony Rods W/SH Tee couplings  
66ea. – 1650' Norris 1" N-97 Rods W/SH Tee couplings  
63ea. – 1575' Norris 7/8" N-97 Rods W/FH Tee couplings  
44ea. – 1100' Norris 3/4" N-97 Rods W/FH Tee couplings  
13ea. – 325' Grade K 1 ½" Sinker Bars W/3/4" pins & SHSM boxes  
1 – 4' Guided Pony Sub 3-guides, 7/8" body, ¾" pins (Garner)  
1 – 2" Insert Pump (Garner)

1 – 1" x 7/8" crossover coupling  
1 – 7/8" x 3/4" crossover coupling

Garner Pump 575 397-4788

Garner Pump (575-397-4788)

COMPANY NAME - Chevron  
WELL - Central Vacuum Unit # 77  
TRIM- 316 Stainless Steel  
T/V CAGES -Monel Insert Guided S/V CAGES Monel Insert Guided  
VALVE ROD N/A PULLTUBE Steel-Brass If Needed  
TRAVELING VALVES PRI- S/N Ball-Extreme Seat SEC- N/A  
STANDING VALVES PRI -S/N Ball-Extreme Seat SEC- N/A  
PLUNGER Spray Metal Monel Pin FEET 4' FIT 008  
BARRELS 20' METAL- Brass Nickel-Carbide  
EXTENSIONS N/A  
HOLD DOWN ASSEMBLY - 316 Stainless Steel Mechanical  
TOP PLUNGER ADAPTER Monel  
API PUMP DESCRIPTION 25-200-RHBM-20-4  
COMMENTS -

32. Load and test pump to 500 psi. Hang off.

33. RDMO PU.

34. Turn well over to production.

Contacts:

Nathaniel Brummert – Remedial Engineer (713-409-6170)

Danny Acosta – ALCR (Cell: 575-631-9033)

Edgar Acero – Production Engineer (432-687-7343 / Cell: 432-230-0704)

Boyd Schaneman – (432-687-7402 / Cell: 432-238-3667)

Drilling Supt. - Heath Lynch – (432-687-7402 / Cell: 432-238-3667)

OS – Nick M. – 432 631 0646

Sam Prieto - Peak Packers – (575-631-7704)

Tim Gray – Baker Petrolite (575-910-9390)

Created: 5/7/2003 By: SMG  
Updated: 8/1/2007 By: HLH  
Lease: Central Vacuum Unit  
Surface Location: 1980' FSL & 660' FEL  
Bottomhole Location: None  
County: Lea St: NM  
Current Status: Active Oil Well  
Directions to Wellsite: Buckeye, New Mexico

Well No.: 77  
Unit Ltr:  
Unit Ltr:  
St Lease:  
Elevation:

Field: Vacuum Grayburg San Andres  
Sec: 36 TSHP/Range: 17S-34E  
Sec: TSHP/Range:  
API: 30-025-02238 Cost Center:  
TEPI: BCT493000  
MVP: BCT494500

**Surface Csg.**

Size: 10 3/4"  
Wt.: 32.75# LW  
Set @: 254'  
Sxs cmt: 200  
Circ: Yes  
TOC: Surface  
Hole Size: 12 1/4"

**Intermediate Csg.**

Size: 7 5/8"  
Wt.: 26.4# LW  
Set @: 1533'  
Sxs Cmt: 250  
Circ: Yes  
TOC: 480'  
Hole Size: 9 5/8"

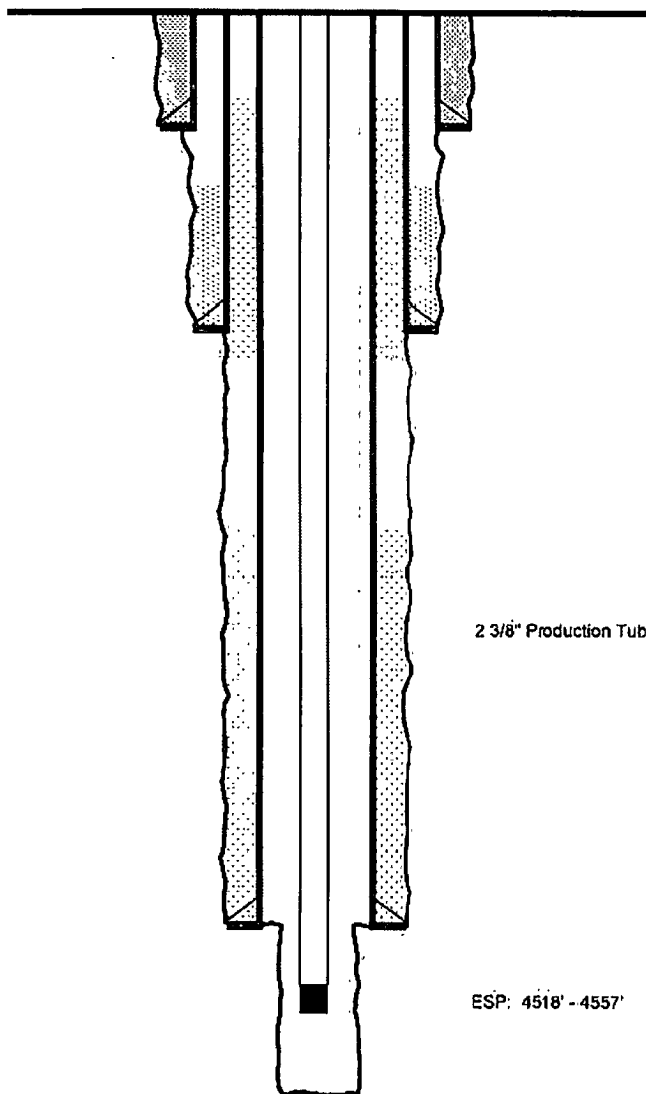
**Production Csg.**

Size: 5 1/2"  
Wt.: 17# smls  
Set @: 4099'  
Sxs Cmt: 200  
Circ: Yes  
Cement: 2000'-4100'  
TOC: 2000'  
Cement: 200'-1600'  
TOC: 200'  
Hole Size: 6 3/4"

**Open Hole**

Hole Size: 4 3/4"  
Depth: 4099'-4710'

PBTD: 4685'  
TD: 4710'



KB: 3997'

DF: 3997'

GL: 3985'

Original Spud Date: 7/2/1938

Original Compl. Date: 8/2/1938

Remarks: Bottom of motor @ 4539.84' with 12:00' KB.

Left in hole 7/8" x 2' long shaft, 2-4" OD-seals 10.79', 1-motor 4.56 OD x 14.45', NEW PBTD @ 4735'

Well History: 10/74: frac 30M gals brine+30M sand 87° 7" GOR 2145'; 11/81: perf 1555', sq 350sx+resq 250sx; 2/85: AC 15M 15%+RS+MB, S  
4/90: CO, checkersol, AC 2M+RS, 95° 1127", 6/93: Am bicarb, AC 10,450 gals 20%, ScSq 77° 1347" 42°