Submit 3 Copies To Appropriate District Office
District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Ave , Artesia, NM 88210
District III
1000 Rio Brazos Rd , Aztec, NM 87410
District IV
1220 S St. Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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MAY 04 2010
HOBBSOCD

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

Form C-103
June 19, 2008

| | |
|---|---|
| WELL API NO. 30-025-32801 | |
| 5. Indicate Type of Lease STATE ☒ 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 CENTRAL VACUUM UNIT | |
| 1. Type of Well: Oil Well ☐ Gas Well ☐ Other INJECTOR | 8. Well Number 194 |
| 2. Name of Operator CHEVRON U.S.A. INC. | 9. OGRID Number 4323 |
| 3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705 | 10. Pool name or Wildcat VACUUM GRAYBURG SAN ANDRES |

4. Well Location
Unit Letter C: 14 feet from the NORTH line and 1917 feet from the WEST line
Section 6 Township 18-S Range 35-E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3979' GR

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: INTENT TO CLEAN OUT, ADD PERFS & ACIDIZE | | 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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

CHEVRON U.S.A. INC. INTENDS TO CLEAN OUT, ADD LOWER PERFS & ACIDIZE THE SUBJECT WELL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, AND FORM C-144.

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 Denise Pinkerton TITLE REGULATORY SPECIALIST DATE 05-03-2010

Type or print name DENISE PINKERTON E-mail address: leakejd@chevron.com PHONE: 432-687-7375

**For State Use Only**

APPROVED BY: TITLE DATE 5-10-10

Conditions of Approval (if any):

**CVU 194**

**Job: Cleanout, Add Perfs, Acidize**
**API No. 30-025-32801**
**Vacuum Grayburg San Andres Unit Field**
**Lea County, NM**

## Workover Procedure

1. Monitor wellhead injection pressure.
2. Backflow well if the wellhead pressure is greater than 500 psi.
3. RUPU. Kill well. ND wellhead. NU BOP.
4. Unlatch on/off tool, circulate hole w/ KWM.
5. Latch on/off tool and release 5-1/2" packer w/ J-55, 2-7/8" Fiberline Tubing.
6. TOH with Fiberline injection tubing and packer. Redress pkr with 80/70/80 durometer packing element.
7. TIH w/ 4-3/4" cone buster mill and six 2-3/4" drill collars on 2-3/8" workstring.
8. Rig up reverse unit w/ power swivel. Cleanout casing to 4800'. (Note: Small pieces of metal (iron sulfide) was recovered @ 4701' on 3/28/07).
9. Spot 250 gallons of 15% HCl through workstring at 4550'.
10. POH.
11. RIH w/ perf gun and perforate the 5-1/2" casing w/ 3-3/8" guns (0.42" AEHD, 47.36" ATP) w/ 2 JSPF @ 120 degree phasing as follows: 4705'-4720', 4733'-4739', and 4743'-4765'
12. ROH w/ perf gun.
13. TIH w/ 5-1/2" injection pkr w/ 1.875" profile nipple below pkr (do not utilize an on/off tool) on existing 2-7/8" Fiberline injection tbg. Replace any damaged injection tubing.
14. Circulate pkr fluid.
15. Set pkr @ 4200'.
16. Pump scale converter if necessary. SI overnight.
17. ND BOP. NU wellhead.
18. Perform MIT. Record on Chart.
19. RDPU.
20. MIRU 1-1/4" CT Unit. Utilize a Sonic Hammer with the CT.
21. Open well and RIH pumping at minimum rate.
22. Slow to 20'/ min when within 200' of PN/pkr.
23. Increase pump rate to max bpm after passing pkr. Water wash perforations to 4800'.
24. Circulate 125% of annular volume.
25. Pump acid and SI backside when acid is at tip of CT. Pump a total of 10,000 gallons of 15% HCl NEFE as follows:
    1. Acid wash perforations with 6 passes with 10-20'/min rate from 4700' to 4770'.
    2. Acid wash perforations with 4 passes with 10-20'/min rate from 4415' to 4690'.
    3. Acid wash perforations with 1 pass with 10-20'/min rate from 4363' to 4414'.
    4. Acid wash perforations with 4 passes with 10-20'/min rate from 4280' to 4311'.
26. Follow acid with fresh water to displace coil.

27. Displace coil with fresh water mixed with soda ash.
28. POOH pumping at minimum rate.
29. RDMO CTU.
30. Wait 30 minutes and flow back well.
31. Return well to water injection for 2 weeks, then switch to $CO_2$ injection.

Contacts:

Larry Birkelbach – Completions Engineer (432-687-7106 / Cell: 432-208-4772)
Carlos Valenzuela – ALCR (Cell: 575-390-9615)
Edgar Acero – Production Engineer (432-687-7343 / Cell: 432-230-0704)
Tim Gray – Baker Petrolite (575-910-9390)

# CURRENT
# WELLBORE DIAGRAM

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Created: | 7/27/2005 | By: MAB | | | | | |
| Updated: | 8/8/2007 | By: HLH | | | | | |
| Updated: | 7/23/2009 | By: Cayce | | | | | |
| Lease: | Central Vacuum Unit | | Well No.: | 194 | Field: | Central Vacuum Unit | |
| Surface Location: | 14' FNL & 1917' FWL | | Unit Ltr: | C | Sec: 6 | TSHP/Range: | 18S-35E |
| Bottomhole Location: | Same | | Unit Ltr: | | Sec: | TSHP/Range: | |
| County: | Lea | St: NM | St Lease | B-1113-1 | API: | 30-025-32801 | Cost Center: |
| Current Status: | Active Injector | | Elevation: | 3979 ft | | | TEPI: |
| Directions to Wellsite: | Buckeye, New Mexico | | | | | | MVP: |

KB 3994'
DF 3993'
GL 3,979
Original Spud Date 2/28/1995
Original Compl Date 3/18/1995

## Surface Csg.

| | |
|---|---|
| Size: | 8 5/8" |
| Wt.: | 24#, WC-50, STC |
| Set @: | 1552 ft |
| Sacks cement: | 375 |
| Circ: | Yes, 96 sacks |
| TOC: | Surface |
| Hole Size: | 11" |

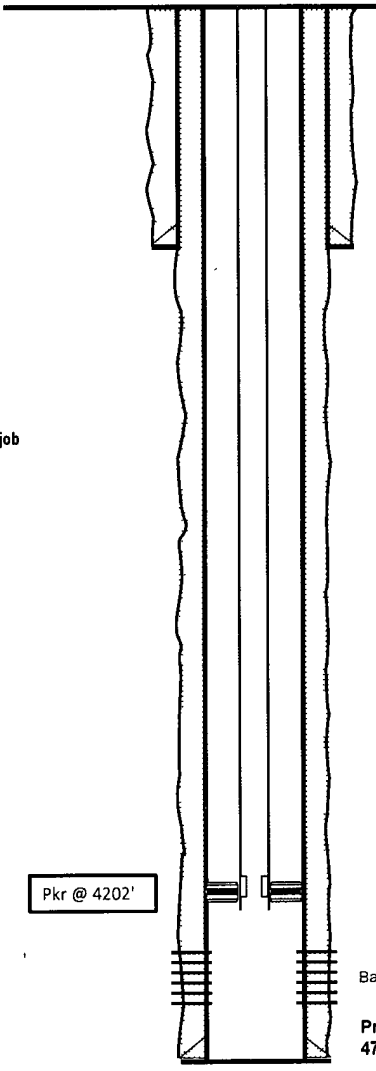
## Production Casing

| | |
|---|---|
| Size | 5 1/2" |
| Wt | 15.5#, WC-50, LTC |
| Set @ | 4850 ft |
| Sacks cement: | 777 |
| Circ: | Yes, 71 Sacks |
| TOC: | Surface according to cementing job |
| Hole Size: | 7 7/8" |

## Perforations:

Grayburg San Andres **4281-4686' 288 holes**

Detail
4281-83,93-99,4304-06,08-10,63-70,74-78,80-88,91-95,98-4405,4411-4418,23-29,31-37,45-48,57-64,4509-11,13-28,30-39,42-44,46-51,53-56,58-65,71-86,93-95,4625-33,35-54,57-4686'




Bad csg in perfs

**Propsoded Perfs:**
**4705-4720', 4733-4739', 4743-4765'**

TD: 4850' ft
PBTD: 4,750 ft

## Well & Failure History

3/8/95: Drilled Vertical Injector: TD @ 4850'
3/10/95- 3/18/95: Initial Completion Completed intervals 4281' to 4686' (208 ft) in the Grayburg - San Andres Formation Acidize w/ 20,000 gls %15 acid
12/17/1997: MIT TEST Tested to 500#/ 30 min OK Packer set @ 4208'
12/10/97- 12/17/1997: WORKOVER TIH w/ bit Tag @ 4462' C/O to 4741' TIH w/ pkr & set @ 4189' Acid perfs 4281'- 4686' w/ 10,000 gls 15% HCl in 4 stgs Flow back 138 bbls TIH w/ 5 1/2" pkr, O/F tool and Inj Tbg Set packer @ 4208' Test & chart casing
4/23/98- 5/29/98: Cross Well Tomography Set plug in profile ans unlatch O/O tool TOH w/ 134 JTS of 2 7/8" tbg Left pkr in hole TIH w/ 2252' of 2 3/8" WS tbg Swab well down to 1500' FL L/D tbg 30 days SI TIH w/ 2 7/8" Inj tbg and Latch on O/F tool TIH w/ wireline to fish plug Had to fish and work w/ wireline plug out w/ pressure bomb Tested csg OK Left well injecting
5/1/1999: MIT TEST test to 540# / 30 min OK Packer set @ 4202 56'
4/21/00- 5/3/00: WORKOVER TIH w/ bit + scrapper to 4021' TIH w/ RBP & set @ 4208' Change csg valves Pull RBP to 4177' Test f/ RBP tp surface Test OK TIH w/ cone buster mill C/O to 4701' Acid perforations f/ 4281' to 4686' w/ W/8000 gls 15% HCl + 2500# RS in 2 stgs P-MAX= 2800, P-AVG= 1750, ISIP= 2000,15= 1153 Flow back TIH w/ bit and C/O to 4701' TIH w/ pump out plug, GVI pkr, O/O tool, 2 7/8" Rice Duolined tbg, sub PSA @ 4208' Test chart to 620# OK Install CO2 tree 2248 mcfpd/1754#
9/6/05 - 9/30/05 Stimulation repair MIT R/U L/D 2 7/8" duoline Csg tested good C/O f/ 4460 to 4701' (PBTD, junk below it) Acid all perfs w/ 4000 gls 15% HCl PB w/ 12/20 sand to 4490' Set pkr @ 4182' and frac upper SA w/ 36,000 lbs 16/30 Jordan sand SI for 1 hr Sand in tbg Coil tbg C/O to 4490' C/O w/ bit notch collar and conebuster f/ 4490' to 4701' Metals shavings, cement, sand and casing chunks in returns Ran 2 7/8" FL tbg w/ 5 1/2" Nickel plated and O/O tool w/ 1 87" profile
3/07 CO & Acidize New 2-7/8" J55 Fiberline Tbg On/Off Tool Clean out to 4426', AC perfs 4281-4686' w/10,000 gals 15% HCL pkr set @ 4202'