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

HOBBS OCD
FEB 17 2012
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised August 1, 2011

WELL API NO. 30-025-25813	
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 INJECTION	8. Well Number 25
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 K: 1330 feet from the SOUTH line and 1504 feet from the WEST line Section 25 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:		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 PREP FOR CO2 INJECTION		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 PREPARE THE SUBJECT WELL FOR CO2 INJECTION.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, & 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 Denise Pinkerton TITLE: REGULATORY SPECIALIST DATE: 02-16-2012

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

APPROVED BY: TITLE STAFF MGR DATE 2-20-2012
Conditions of Approval (if any):

FEB 20 2012

CVU 25
API No. 30-025-25813
Vacuum (Grayburg-San Andres) Field
Lea County, NM

Workover Procedure

RIGLESS

1. Notify field specialist to shut well in 2 weeks prior to beginning workover (ensure LOTO @ header). Monitor pressure & RU to back flow if pressure does not fall below 500 psi in the 1st week. Certify last anchor pull test date w/in 24 months. Confirm placement of electrical lines and determine if electrical variance is needed. Confirm that location is in adequate condition for RU. Ensure that elevators and lifting equipment is callipered / inspected prior to handling tubing each morning and each time tubing / rod sizes are changed.

2. Notify OCD with 24 hr intent to repair @ 575 361 2822

PREP FOR WH REPAIR (WITH RIG)

3. MIRU pulling unit.

4. Record tubing and casing pressures for kill weight fluid calculations. Check / bleed pressure from surface valves if necessary & monitor throughout well work.

5. MIRU wire line unit perforate tubing @ +/- 4310' (there is no record of an on/off tool or profile nipple in the well records).

6. Reverse circulate kill weight mud as necessary. Shut pipe rams & bullhead mud conventionally to kill tubing.

7. Check tubing and casing pressure and ensure that both are dead. ND wellhead.

8. NU hydraulic 5M BOP w/ 2-3/8" pipe rams over blind rams & 3M annular.

9. Caliper and inspect elevators. Release packer & LD 1 joint 2-3/8" 4.7# J55 Duoline tubing. PU 4-1/2" packer & 1 jt of 2-3/8" production tubing. Set packer @ 30' & test pipe rams to 250 / 550 psi for 5 minutes. Test annular to same. LD test joint and packer.

10. Con't TOH – lay down all 2-3/8" Duoline tubing & packer. Tally injection tubing while laying down to confirm packer set depth. Send 2-3/8" Duoline tubing to 1788 yard for inspection. Visually inspect the tubing while lying down and note its condition in Wellview.

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11. PU 4-1/2" RBP & packer & TIH on 2-3/8" 4.7# L80 workstring. Set RBP @ +/- 4315' (barrier #1 for WH repair). Set packer @ +/- 4300' & test RBP to 750 psi with packer.

12. Release packer & circulate hole with clean FW. Add con-det to circulating system to help remove hydrocarbons from wellbore. Circulate until clean FW is all the way around.

13. Shut pipe rams and pressure test casing against RBP to 550 psi for 30 minutes (Ensure that bradenhead valves are open & monitored for communication. If communication exists, circulate fresh water with con-det through the bradenhead until all hydrocarbons are removed). Notify remedial engineer if pressure losses are greater than or equal to 10% of applied pressure & be prepared to hunt a casing leak & squeeze. (In 2004, leak was identified f/ 476'-508' & was squeezed 5 times).

14. PU second 4-1/2' RBP &TIH. Set second RBP @ 450' (2nd barrier for WH repair).

RIGLESS WH REPAIR

15. Ensure that a one call has been made and that an excavation permit is in place prior to digging out WH.

16. Unscrew tubing head from 4-1/2" casing.

17. Dig out casing head. Have a gang with air compressor on location to jackhammer cement & sandblast casing if necessary.

18. Inspect 8-5/8" casing. If good, cut windows in surface casing to relieve tension in the 4-1/2" production casing.

19. Once tension has been relieved in the production string, cut the 8-5/8" casing to desired height & remove by stripping over the 4-1/2" casing.

20. Inspect the 4-1/2" casing, repair if needed (same way as 8-5/8" casing). Stub up 4-1/2" casing to desired height first.

21. Weld 8-5/8" slip x slip collar & strip 8-5/8" casing joint over the 4-1/2" casing & weld.

22. Cut 8-5/8" casing joint to desired height & install 8-5/8" x 11" 3M SOW (slip on wellhead).

23. Install 4-1/2" casing slip type casing hanger (C-21's, no weight to activate) to centralize casing. Measure and make final cut off to prep for next section of WH. Install primary packoff to seal annulus.

24. Nipple up next section of wellhead: 11" 3M x 7-1/16" 5M tubing head to packoff 4-1/2". Test void per Vetco instructions. Ensure that this section of the WH has outlets with valves.

25. Install dry hole cap with 5M ball valve.

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Lea County, NM

WORKOVER

26. MIRU pulling unit

27. Set 4-1/2" packer @ 30' & test pipe rams to 250 / 550 psi for 5 minutes. Test annular to same. LD test joint and packer.

28. TIH &retrieve RBP's that were set for WH repair. Stand back WS on each trip.

29. TIH w/ 3-7/8" bit and 6-2-7/8" drill collars on 2-3/8" 4.7# L80 workstring until fill is tagged (note that fill was tagged with WL in 2009 @ 4344'.

30. Cleanout fill to 4760' (PBTD). Capture a sample of cuttings and have Baker Petrolite analyze.

    a. If calcium sulfate scale is identified, spot 110 gals SRW196 scale converter mixed with 5 bbls FW out bit. TOH & LD C/O assembly. Shut in well overnight & allow treatment to soak overnight. TIH w/ packer hydrotesting to 8000 psi below slips & set @ +/- 4300'. Load @ test backside to 500 psi. Acidize as below.

    b. If calcium carbonate is identified TOH LD C/O Assembly. TIH w/ packer hydrotesting to 8000 psi below slips & set @ +/- 4300'. Load @ test backside to 500 psi. Acidize as below without spotting scale converter.

    Acidize perfs 4379' – 4709' w/ 6,000 gallons 15% HCl in 3 stages. Pump 1000 lbs rock salt mixed in gelled BW for diversion between stages (adjust salt drops based on well pressure response).

31. Shut-in for one hour and flow back load. Swab back if necessary.

32. Release packer and TOH. Stand back WS & LD packer.

33. RIH 3-7/8" MT bit on 2-3/8" workstring and wash salt to PBTD.

34. Circulate hole clean and TOH.

35. TIH hydrotesting below slips to 5K w/ new nickel plated IPC 4-1/2" injection packer w/ 1.43" 'F' SS profile nipple, SS on/off tool, & pump out plug on new 2-3/8" J-55 Fiberlined injection tubing. Set packer at +/- 4315'. (Note old packer set depth of 4321' – do not set new packer lower than 4321'). Ensure that PN & on/off tool details are captured in Wellview. Ensure that Fiberline technician is on location to assist with tubing makeup.

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36. Release on / off tool & displace annulus with packer fluid. Re-engage on/off tool.

37. Perform pre-MIT →Pressure up on backside to 550 psi and hold for 30 minutes (pre-MIT). Isolate reverse pump during MIT test and use chart recorder to record pressure response. Notify OCD/BLM w/ 24 hr intent to perform official MIT.

38. Bleed off pressure. ND BOP.

39. NU wellhead & test per Vetco.

40. Blow pump out plug.

41. Rig down pulling unit.

42. Perform official MIT → Apply 550 psi to casing for 30 minutes. Isolate pump during MIT test and use chart recorder to record pressure response. Submit C-103 report with original MIT chart attached.

43. Turn well over to production.

NCB 8/9/2011

PTB 7/15/11

Contacts:

Petroleum Engineer – Paul Brown 432-687-7351 / 432-238-8755

Remedial Engineer – Nate Brummert 713-409-6170

Peak Packers – Sam Prieto 575-531-7704

Petroplex Acidizing – Steve Pendelton 432-556-4211

Baker Petrolite – Tim Gray 575-910-9390

ALCR – Carlos Valenzuela 575-390-9615

Drilling Supt – Heath Lynch – 281 685 6188

Vetco Gray – Jesse – 432 580 6602

Wellbore Diagram

CVU 25

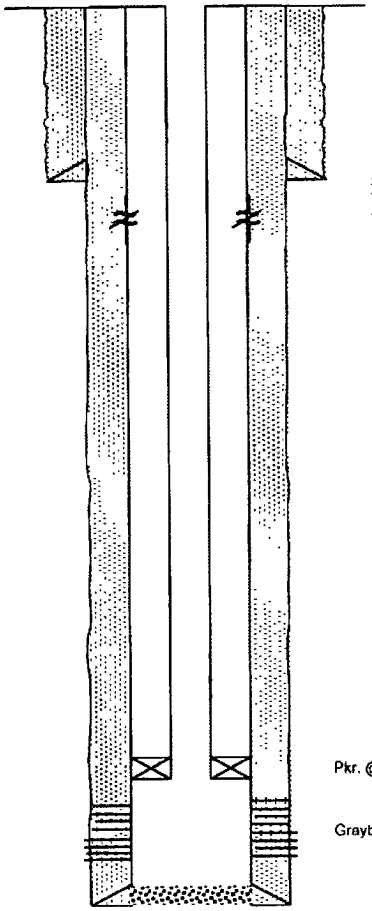
Created:	11/15/2007	By:	NC
Updated:	05/05/08	By:	JSS
Updated:	05/04/09	By:	Cayce
Lease:	Central Vacuum Unit		
Field:	Vacuum (Grayburg-San Andres)		
Surf. Loc.:	1330' FSL, 1504' FWL		
Bot. Loc.:			
County:	Lea	St.:	NM
Status:	Active Water Injector		

Well #:	25	St. Lse:	E-2706
API	30-025-25813		
Unit Ltr.:	K	Section:	25
TSHP/Rng.	S-17 E-34		
Unit Ltr.:		Section:	
TSHP/Rng:			
CHEVNO.	EQ0046		
Directions:	Buckeye, NM		

Surface Casing

Size:	8 5/8"
Wt., Grd.:	24#, K-55
Depth:	400'
Sxs Cmt.	425
Circulate:	Yes
TOC:	Surface
Hole Size:	12 1/4"

Csg Lk Sqz: 476-508'



KB.	4014'
DF:	NA
GL:	4004'
Ini. Spud:	3/24/1978
Ini. Comp.:	4/25/1978

Perf. and Stimulation History:

CVU #25

4/17/78 Perf 4 1/2" csg. w/2 JSPF @ 4379, 83, 4407, 18, 23, 28, 60, 69, 4555, 59, 70, 4632, 40, 49, 56, 62, 72, 86, 91, 4700, 09'. 660 shots.

4/25/78 Ran 2 3/8" RBP & Pkr. @ 4722 & 4602'. Acidize perfs. 4632-4709' w/3000 gals 15% NEA in 2 stages. Max.=5100#, Min.=1300#, Air=4.2 BPM, ISIP=1000#, 1-min. SIP=Vac reset pkr @ 4602 & 4512. Acidize perfs: 4555-4570'w/1500 gals 15% NEA. Max.=4000#, Min.=3700#, Air=2 5 BPM, SIP=2900#, 10-min SIP=2500# Reset pkr. @ 4512 & 4451'. Acidize perfs: 4460-4469' w/460 gals 15% NEA communicated Max.=3900#, Min.=1500#. reset pkr. @ 4329'. Acidize perfs: 4379-4469' w/2340 gals 15% NEA. Max.=3000#, Min.=2300#, Air=4 BPM, ISIP=1700#, 4-min. SIP=Vac pulled 2 3/8" tbg. & pkr

4/26/78 Ran 141 jts (4331') 2 3/8" duoline tbg. w/baker 4 1/2" pkr. set @ 4337' S.I. WIW effective 4/25/78. Vacuum San Andres perfs. 4379-4709' waiting on installation of injection system

12/11/78 Water injection began in this well

5/27/93 Curtailed injection pressure to 900 psi. pressure limit was 907 psi

5/22/95 Permit to increase pressure to 2500 psig.

7/13/04-8/11/04 MIT. Fish broken pkr. isolated leaks between 476-508'. squeeze 5 times. Run new 2 3/8" duoline tbg. and 4 1/2" nickel plated packer. Set pkr. at 4321'

4/09 Tagged @4344. Tbg press 1575.

Production Casing

Size:	4 1/2"
Wt., Grd.:	10.5#, K-55
Depth:	4800'
Sxs Cmt:	2100
Circulate.	Yes
TOC:	Surface
Hole Size.	7 7/8"

Pkr. @ 4321'

Grayburg San Andres Perfs: **4379'-4709' w/2 JSPF.**

PBTD: 4760'

TD: 4800'