

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

**RECEIVED**  
**OCD**  
**HOBBS**  
**NOV 30 2012**

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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 <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <u>INJECTION</u>		WELL API NO. 30-025-35563 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> 6. State Oil & Gas Lease No.
2. Name of Operator CHEVRON U.S.A. INC.		7. Lease Name or Unit Agreement Name VACUUM GRAYBURG SAN ANDRES UNIT 8. Well Number 249
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705		9. OGRID Number 4323 10. Pool name or Wildcat VACUUM GRAYBURG SAN ANDRES
4. Well Location Unit Letter F: 1390 feet from the NORTH line and 2530 feet from the WEST line Section 1 Township 18-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

<b>NOTICE OF INTENTION TO:</b> PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> OTHER: REPAIR MIT FAILURE	<b>SUBSEQUENT REPORT OF:</b> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER
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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 REPAIR A MIT FAILURE IN THE SUBJECT WELL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, & C-144 INFORMATION

Spud Date:  Rig Release Date:  **Condition of Approval: notify OCD Hobbs office 24 hours prior of running MIT Test & Chart**

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: 11-28-2012  
 Type or print name: DENISE PINKERTON E-mail address: leakejd@chevron.com PHONE: 432-687-7375  
 APPROVED BY: Mark White TITLE Compliance Officer DATE 11-30-2012  
 Conditions of Approval (if any):

**Per Underground Injection Control Program Manual**  
**11.6 C Packer shall be set within or less than 100 feet of the uppermost injection perms or open hole.**

**The Oil Conservation Division**  
**MUST BE NOTIFIED 24 Hours**  
**Prior to the beginning of operations**

DEC 03 2012

**Well:** Vacuum Grayburg San Andres Unit # 249  
**Field:** Vacuum Grayburg San Andres  
**API No.:** 30-025-35563  
**Lea County, New Mexico**

**Description of work:** Release packer, POOH with tubing and packer. CO. RIH with injection tubing and packer; set the packer and test. RTI.

**Pre-Work:**

\*\*\*Check wellhead and all connections and change out anything that needs to be replaced prior to rigging up on the well\*\*\*

1. Check wellhead connections for pressure rating & condition. Change out if necessary.
2. Utilize the rig move check list.
3. Check anchors and verify that pull test has been completed in the last 24 months.
4. Ensure location of & distance to power lines is in accordance with MCA SWP. Complete and electrical variance and electrical variance RUMS if necessary.
5. Ensure that location is of adequate build and construction.
6. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change.
7. When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole
8. For wells to be worked on or drilled in an H2S field/area, include the anticipated maximum amount of H2S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm (attached).
9. If the possibility of trapped pressure exists, check for possible obstruction by:
  - o Pumping through the fish/tubular – this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
  - o Dummy run – make a dummy run through the fish/tubular with sandline, slickline, eline or rods to verify no obstruction. Prior to making any dummy run contact RE and discuss.

If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:

- o Hot Tap at the connection to check for pressure and bleed off  
Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

**Procedure:**

1. Rig up pulling unit. Check wellhead pressure, and pump tubing volume of 10# BW. Calculate kill mud weight.
2. Rig up wireline truck. Test lubricator on catwalk to 1,000 psi. RIH with gauge ring. Set 1.43" "F" blanking plug in profile nipple.
3. ND wellhead. NU 5,000 psi BOP with 2-3/8" pipe rams over blinds with hydrill on top.
4. Release from on/off tool. Circulate kill mud. POOH with 1 joint of tubing, install 4" test packer, RIH & set packer at ~25'. Test BOP to 250 psi low / 1,000 psi high. POH & lay down test packer.

**Well:** Vacuum Grayburg San Andres Unit # 249  
**Field:** Vacuum Grayburg San Andres  
**API No.:** 30-025-35563  
**Lea County, New Mexico**

5. Pressure casing to 500 psi to test for a casing leak. Notify Remedial Engineer with results.
6. POH with 2-3/8" fiberlined injection tubing. Scan tubing coming out of the hole, laying down bad joints. Provide remedial engineer tubing scan results so a decision can be made on the amount of new 2-3/8" Fiberline tubing will need to be purchased.
7. PU & RIH with on-off shuck, 4' perf sub on 2-3/8" work string. Latch up to on-off tool. RU WL and pull plug.
8. Release AS1X packer and TOH. Lay down packer.
9. RIH with a 3-1/4" MTB on the end of 2-3/8" work string, making a cleanout run to 4,835'. Circulate clean, kill well, & POH.
10. Hydro-test and RIH with 2-3/8" Fiberlined injection tubing with on-off tool and 1.43" ID 'F' profile nipple and 4" Arrow Set IX (external nickel plated, internal plastic coated) injection packer with pump out plug on bottom.
11. Set packer at 4,228' (Upper most setting depth is 4,192').
12. Unlatch tubing from packer and circulate packer fluid.
13. Latch tubing back on to packer.
14. Pressure backside to 500 psi and hold for 30 minutes (pre-MIT).
15. Bleed off pressure. ND BOP. NU wellhead. Pressure tubing to pump out plug.
16. Install chart recorder. Pressure backside to 500 psi for 33 minutes to satisfy requirements for an official MIT. Send chart to Denise Pinkerton (Chevron Regulatory) in Midland Office.
17. Rig down pulling unit.
18. Write work order to re-connect the injection line.
19. File C-103 subsequent report with MIT chart attached (Denise Pinkerton - Chevron Regulatory).
20. Place well on injection.

RRW 10/31/2012

Contacts:

Remedial Engineer – Larry Birkelbach	(432-687-7650 / Cell: 432-208-4772)
Production Engineer – Ryan Warmke	(432-687-7452 / Cell: 281-460-9143)
ALCR – Danny Acosta	(Cell: 575-631-9033)
D&C Ops Manager – Boyd Schaneman	(432-687-7402 / Cell: 432-238-3667)
D&C Supt. – Heath Lynch	(432-687-7857 / Cell: 281-685-6188)
OS – Nick Moschetti	(Cell: 432-631-0646)

**VGSAU #249 Wellbore Diagram**

Created: 03/29/06 By: C. A. Irle  
 Updated: 10/25/2007 by PTB, 4/21/08 by NC  
 Updated: 11/05/08 By: SMI  
 Updated: 06/04/09 By: Cayce  
 Updated: 01/09/12 By: PTBP  
 Lease: Vacuum Grayburg San Andres Unit  
 Field: Vacuum Grayburg San Andres Unit  
 Surf. Loc.: 1,390' FNL & 2,530' FEL  
 Bot. Loc.: \_\_\_\_\_  
 County: Lea St.: NM  
 Status: Active Injection Well

Well #: 249 St. Lse: \_\_\_\_\_  
 API: 30-025-35563  
 \_\_\_\_\_  
 Unit Ltr.: F Section: 1  
 TSHP/Rng: S-18 E-34  
 Unit Ltr.: \_\_\_\_\_ Section: \_\_\_\_\_  
 TSHP/Rng: \_\_\_\_\_  
 Directions: Buckeye, NM  
 CHEVNO: HD2328

**Surface Casing**

Size: 8 5/8"  
 Wt., Grd.: 24# K-55  
 Depth: 1,482'  
 Sxs Cmt: 700 H  
 Circulate: Yes  
 TOC: Surface  
 Hole Size: 12 1/4"

**Production Casing**

Size: 5 1/2"  
 Wt., Grd.: 15.5# K-55  
 Depth: 4,800'  
 Sxs Cmt: 950 H  
 Circulate: Yes 124sx  
 TOC: Surface  
 Hole Size: 7 7/8"

**Production Liner:**

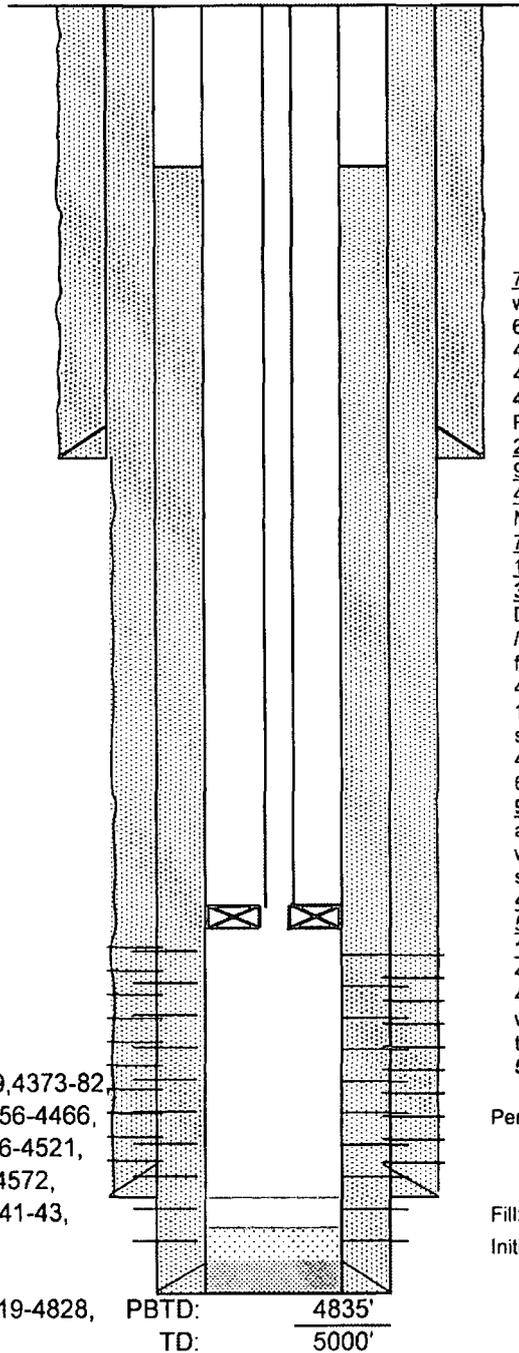
Size: 4"  
 Wt., Grd.: 10.46#, J-55  
 Depth: 5000'  
 Sxs Cmt: 350  
 Circulate: no  
 TOC: 220' calc.  
 Hole Size: 4 3/4"

2-3/8" Fibertline Tbg

Arrowset packer @ 4258' w 1.43" PN

**Perforations**

4292-4302, 4308-12, 4316-20,  
 4322-24, 4330-40, 4362-4366, 4369, 4373-82,  
 4394-4404, 4436-4450, 4438-50, 4456-4466,  
 4458-66, 4472-75, 4492-4511, 4516-4521,  
 4524-29, 4532-36, 4539-51, 4567-4572,  
 4586-4594, 4598-4612, 4620-38, 4641-43,  
 4687-4690, 4696-4700, 4702-14  
 4732-4742, 4769-4771, 4780-4784,  
 4788-4794, 4802-4804 miss-fire, 4819-4828,  
 4836-4841, 4844-4847, 4850-4858



PBTD: 4835'  
 TD: 5000'

KB: 4,004  
 DF: \_\_\_\_\_  
 GL: 3,991  
 Ini. Spud: 07/02/01  
 Ini. Comp.: 07/24/01

**History**

7/24/01 Ini Comp: Perf 4492-4714, flowing when perf 4620-4644, pkr 4408 TP 4440, acid 6000 gls 15% 3000# RS, RBP 4480, perf 4292-4302, 08-12, 16-20, 22-24, 30-40, 76-82, 4394-4404, 4438-50, 47-50, 58-66, 72-74, pkr 4211, acid 4800 gls 15% 2500 gls gel 2000# RS, pkr 4258.

2/2002: max pressure 1550#

9/12/02 Chq Pkr: Nickel plated Duoline.

4/29/03 Stim: Pkr 4243, acid 8000 gls 15% NEFE HCl 4000# RS, pkr 4271.

7/2003: max pressure 1680#

10/2007: Slickline TD @ 4,282'

3/18/08-4/15/08 Deepen, perf, acid:

Deepen to 5000'. Perf 4732'-4858'. Acidize /4,000 gals 15% HCl & 4,000# rock salt. Swab for oil sample - unsuccessful. Set RBP @ 4730'. Perf 4292'-4714'. Acidize w/4,000 gals 15% HCL in 3 stages w/2,500# rock salt in 2 stages. Pull RBP. Tag@ 4945'. Set pkr @ 4248.4

6' w/11' KB

9/08 - Inj profile showed 85% going into perfs at 4850-58' and traveling down, Plugged back with 20/40 sand & capped with 100 mesh sand, tagged top of sand plug at 4835'.

4/09 Tagged @ 4360'. Tbg. press 1725.

5/09 Tag @ 4817. Tbg press 1825.

11/09 Pull Pkr and tbg. Perf 4702-4714, 4622-4636, 4330-4340, 4373-4382, 4444-4450, 4456-4466. Frac w/ 234801 gal slick water and sand. CO to 4836'. reset pkr and tbg @ 4258

5/12 CT CO to 4,800'

Perfs: 4292 - 4859

Fill: 4800'- 4835'

Initial Sand Plug: 4835' - 4945'