

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

Form C-103  
May 27, 2004

RECEIVED  
JUN 12 2009  
HOBBSOCD  
CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-025-24365
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 VACUUM GRAYBURG SAN ANDRES UNIT
8. Well Number 47
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 <input type="checkbox"/> Gas Well <input type="checkbox"/> Other INJECTION <input checked="" type="checkbox"/>	
2. Name of Operator CHEVRON U.S.A. INC.	
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705	
4. Well Location Unit Letter H: 1330 feet from the NORTH line and 10 feet from the EAST line Section 2 Township 18-S Range 34-E NMPM County LEA	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4003'	

Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type	Depth to Groundwater
Distance from nearest fresh water well	
Distance from nearest surface water	
Pit Liner Thickness:	Below-Grade Tank: Volume
bbls; Construction Material	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: ADDITIONAL INFORMATION FOR 2 7/8" TBG	

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.

\*\*\*\*\*AMENDED REPORT\*\*\*\*\*

THIS SUBSEQUENT REPORT SHOWS ADDITIONAL INFORMATION INADVERTENTLY LEFT OFF THE REPORT FOR 07-08-2008 CONCERNING THE CEMENTING OF THE 2 7/8" TBG IN THE HOLE

7-08-08: PUMP 35 BBLs LEAD CMT & 12 BBLs TAIL CMT. DISPLACE TBG W/18 BFW. RECVD 5 BBLs CMT TO PIT. LATCH ONTO PKR. NU CO2 WELLHEAD & TEST TO 3000# GOOD. PUMP OUT PLUG @ 3750#. PUMP 18 BFW. PUMP 1500 GALS 15% HCL. FLUSH W/60 BFW.

DENIED  
Cannot inject  
down 2 7/8" CSG.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Denise Pinkerton TITLE Regulatory Specialist DATE 06-05-2009  
Type or print name Denise Pinkerton E-mail address: leakejd@chevron.com Telephone No. 432-687-7375  
APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 6-23-09

Conditions of Approval (if any):

# VGSAU #47 Wellbore Diagram

Created: 05/18/04 By: SMG  
 Updated: 05/12/08 By: BSPT  
 Updated: 07/21/08 By: NC  
 Updated: By: Cayce  
 Lease: Vacuum Grayburg San Andres Unit  
 Field: Vacuum Grayburg San Andres Unit  
 Surf. Loc: 1330' FNL & 10' FEL  
 Bot. Loc.:  
 County: Lea St.: NM  
 Status: Active Injection Well

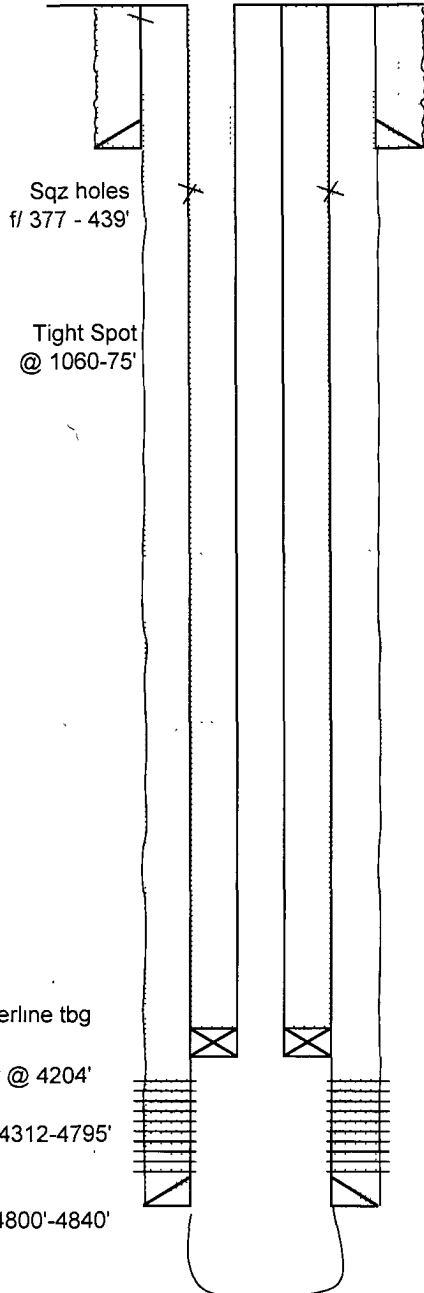
Well #: 47 St. Lse: 857948  
 API: 30-025-24365  
 Unit Ltr.: H Section: 2  
 TSHP/Rng: S-18 E-34  
 Unit Ltr.: Section:  
 TSHP/Rng:  
 Directions: Buckeye, NM  
 Chevno: FH0890

## Surface Casing

Size: 8 5/8"  
 Wt., Grd.: 20#, K-55  
 Depth: 355'  
 Sxs Cmt: 300  
 Circulate: Yes  
 TOC: Surface  
 Hole Size: 12 1/4"

## Production Casing

Size: 4 1/2"  
 Wt., Grd.: 9.5#, J-55  
 Depth: 4800'  
 Sxs Cmt: 600  
 Circulate: No  
 TOC: 2460', CBL  
 Hole Size: 7 7/8"



KB:  
 DF:  
 GL: 4,003  
 Ini. Spud: 03/24/73  
 Ini Comp.: 04/04/73

## History

4/73 Ini Comp Perf 2 jspl 4361, 93, 4407, 16, 28, 51, 65, 75, 85, 4500, 16, 29, 34, 46, 62, 69, 75, 89, 94, 4620, 24, 32, 38, 59, 68, 77, 4708, 19, 29 & 39, acidize w/ 6000 gals 20% NEA  
 7/82 CT CO Washed perfs with 1000 gals 15% NEFE using CT unit  
 6/90 CO Perf Acid Swage tight spot in csg @ 1075' Rpr WH CO to 4800' Perf 2 jspl 4403-12, 20, 34, 46, 55, 96, 4512, 25, 50, 58, 81, 85, 4616, 46 and 4712 (32 holes) AC all perfs w/ 6000 gals 15% NEFE in 3 stages w/ 3K# RS & 46 BS Test csg ok  
 9/92 CO Acid CO to 4789' Acidize w/ 5000 gals 20% NEFE w/ 3K# RS & 144 BS. Set pkr @ 4250 Test csg ok  
 8/96 CO Acid CO fill from 4232' to 4788' (PBTD)w/ 3 7/8" bit  
 Acidize GSA perfs 4361'-4739' (92 holes) with 5000 gal 20% NEFE in 4 stages w/ 5000 # RS (good block) Pkr @ 4230 Test csg ok  
 8/04 MIT CO Perf Acid Tagged @ 4246' w/ bit Attempt to find holes in 4 1/2" csg w/ RBP & pkr? Set RBP @ 4220' Repair hole in 8 5/8" near WH by digging out cellar Pump 125 sx cmt down 4 1/2" csg, no circ DO cmt. TIH w/ 3 7/8" bit and C/O to 4772' (scale, iron sulfate) Perf 4 jspl 4360'-4370' & re-perf 4400'-4440' (200 holes) Set pkr @ 4207 AC 6000 gls 15% NEFE & 4000# RS (good block) Set RBP @ 4207 Find holes f/ 377-439' w/ pkr. Sqz w/ 105 sx Run CBL Sqz w/ 100 sx Test csg to 350# ok  
 7/05 Tagged @ 4764'  
 10/5/2007 Failed MIT pre-test  
 6/08 Deepen to TZ Attempt to sqz csg leak unsuccessful. Deepen to 4840' Perf 4 1/2" csg 4294-4795' Acidize interval 4294-4840' w/6000 gals 15% in 4 stages RIH w/4 1/2" pkr & on/off tool on 2 7/8" fiberline tbg Set pkr at 4204' Cement in tbg w/165 sx Class C Test tbg to 2500 psi Return to injection  
 4/09 Tagged @ 4796' Tbg press 1725

## Perf Details

4323-28, 54-66, 93,  
 4403, 07, 12, 16, 20, 28, 34, 46, 51, 55, 60-70, 65,  
 4475, 82-88, 90-96,  
 4500, 12, 16, 25, 29, 34, 46, 50, 56-64, 69, 75, 81,  
 4585, 89, 94,  
 4616, 20, 24, 32, 38, 39-48, 59, 64-81,  
 4708, 12, 19-24, 29, 39, 40-42, 50-56, 60-66, 70-80,  
 4785-95,  
 OH 4800-4840

130 jts. 2 7/8" J-55 Fiberline tbg

4 1/2" NP Loc-Set Pkr @ 4204'

Perfs. 4312-4795'

3-7/8" Open Hole 4800'-4840'

TD: 4840'

**CURRENT  
WELLBORE DIAGRAM**

Created: 5/18/2004 By: SMG  
 Updated: 8/14/2007 By: HLH  
 Lease: Vacuum Grayburg San Andres Unit  
 1330' FNL & 10'  
 Surface Location: FEL  
 Bottomhole Location: Buckeye, New  
 County: Lea St: NM  
 Current Status: Active Water  
 Injection Well  
 Directions to Wellsite: Mexico

Well No.: 47 Field: Vacuum Grayburg San Andres  
 Unit Ltr: H Sec: 2 TSHP/Range: 18S-34E  
 Unit Ltr: B-867-1 Sec: TSHP/Range:  
 API: 30-025-24365 Cost Center:  
 Elevation: 4003' GR TEPI BCT493000  
 MVP BCT494500

Surface Csg.	
Size	8 5/8"
Wt	20#, K-55
Set @	355'
Sxs cmt	300
Circ	Yes
TOC	Surface
Hole Size	12 1/4"

Production Casing	
Size	
Wt	
Set @	
Sxs Cmt	
Circ	
TOC	
Hole Size	

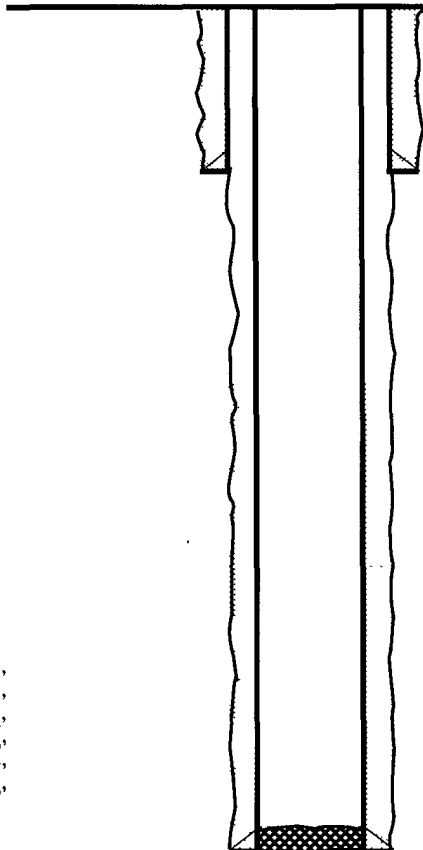
TD: 4800'  
 PBTD: 4788'

Perforations: 2 JSPI, 30 intervals 4361'-4739'

Formation Tops	
Grayburg Marker	4174'
Grayburg Dolomite Top	4288'
Grayburg Dolomite Base	4328'
Grayburg San Andres	4340'
LSA	4537'
O/W Contact	4710'

**TUBING LANDING DETAILS**

#	Size	Footage	Depth
1	Kelly Bushing	0.00	0.00
132	JTS 2 3/8"	#####	4200.00
1	4-1/2" AD-1 Pkr	4.00	4204.00



Original Spud Date 3/24/1973  
 Original Compl Date 4/4/1973

**WORKOVER HISTORY:**

**04-04-1973** New injection well TD 4800' PBTD 4788'. Perfs 2JSPI @ 4361, 93, 4407, 16, 28, 51, 65, 75, 85, 4500, 16, 29, 34, 46, 62, 69, 75, 89, 94, 462, 0, 24, 32, 38, 59, 68, 77, 4708, 19, 29 and 4739', acidized perfs with 6000 gals 20% NEA  
**07-16-1982** Acid washed perfs with coil tubing using 1000 gals 15% NEFE  
**06-25-1990** CO to 4800 and spotted 300 gals Na perporate across perfs New perfs 2JSPI @ 4403-12, 20, 34, 46, 55, 96, 4512, 25, 50, 58, 81, 85, 4616, 46 and 4712 (32 holes) Acidized perfs 4361-4739' with 6000 gals 15% NEFE in 3 stages Tested for csg integrity and returned to injection  
**09-30-1992** CO to 4789' and spotted 600 gals 20% NEFE @ 4748' Acidized formation with 5000 gals 20% NEFE and swabbed back Set injection Pkr @ 4250', tested csg and returned it to injection  
**08-08-1996** Clean out fill from 4232' to 4788' (PBTD) Set packer @ 4205' Test annulus to 500 psi-Held Rig up Dowell Coil Tubing Unit Coil tbg split Rig down Coil Tbg Unit Dowell acidized Grayburg-San Andres perfs 4361'-4739' (92 holes) with 5000 gal 20% NEFE in 4 stages using total of 5000 # salt for blocks (Good Block action) Flush 25 bbls 2% KCL water Max pres=2300 psi Min Pres=1700 psi ISIP=1330 psi 15 Min SIP=1212 psi Total load=376 Bbls Tbg pres this am=700 psi Flowed 5 hrs on 1" choke from 700 psi down to 50 psi Recovered 0 Oil & 330 BLW Left flowing to test tank overnight Release pkr & POH laying down 2 3/8' workstring Ran 4 1/2" AD-1 pkr on 134 jts 2 3/8" Permian Flurolined inj tbg Displace annulus w/packer fluid Set packer @ 4230' and returned to injection  
**8/27/04-9/7/04: MIT** L/D cmt lined tbg Found hole in pkr TIH w/ 3 7/8" bit and scraper Tagged @ 4246' (Grayburg Dolomite) TOH Ran Pkr Set @ 4194' Test OK Isolating leaks below 439' Circulate water around 1 5 bpm @ 400# 2 bpm @ 200# later TOH RIH w/ pkr & RBP Unable to get a good test between 4225' & 4171' Changed rubbers (70/80 rubbers) Set RBP @ 4220' packer @ 4205' Test to 730# for 30 min Lost 40# (Good) TOH Dig around well head for repairs on 8 5/8" Speared 4 1/2" casing and repair Cut 18" below 8 5/8" wellhead R/U Schlumberger and pump 125 sx cmt down the 4 1/2" casing Pump @ 2bpm w/ 60 psi press Shut surface valve in and bullhead 3 1 bbls SITP = 92#  
 Tagged @ 213' Drill hard cmt f/ 213 to 468' Fell thru Tested csg @ 350#/30 min lost 10# (good test) TIH and retrieve RBP @ 4220' TIH w/ 3 7/8" bit and C/O f/ 4246' to 4772' (scale, iron sulfate) R/U Baker Atlas TIH w/ 3 1/8" perf guns Tight spot @ 1060' Did not pass Gage ring did not pass Ran 2 1/2" guns Perf w/ 2 1/2" guns 4 SPF new interval 4360'-4370' & re-perforate interval 4400'-4440' (200 holes) Set Pkr @ 4207 Pumped 6000 gls 15% acid & 4000# rock salt ISIP=1324# 132 jts 2 3/8" 4 7#, 2-10' tbg sub, 4 5" weatherford pkr pkr set @ 4204 00' (new duo-line tbg)