District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-
May 27, 2

Submit to appropriate District Of

☐ AMENDED REPC

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

[1] Operator Name and Address	[2] OGRID Number
CHEVRON U S A INC 15 SMITH ROAD MIDLAND, TEXAS 79705	4323
	[3] API Number 30 – 025-35563

[3] Property Code	[5] Property Name	[6] Well No
30022	VACUUM GRAYBURG SAN ANDRES UNIT	249

[9] Proposed Pool 1	[10] Proposed Pool 2
VACUUM GRAYBURG SAN ANDRES	

[7] Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	1	18-S	34-E		1390	NORTH	2530	EAST	LEA

[8] Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
D Deepen	Inj.		S	3991'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
NO	5000'	GRAYBURG S/A		

Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water

Pit Liner: Synthetic ☐ ____ mils thick Clay ☐ Pit Volume _____ bbls
Closed-Loop System ☐

Drilling Method
Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
NO CHANGE					

[22] Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zo
Describe the blowout prevention program, if any Use additional sheets if necessary
CHEVRON U S A INC INTENDS TO DEEPEN THE SUBJECT WELLFROM 4800 – 5000'

THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL

RECEIVED
MAR 04 2008
HOBBS OCD

Permit Expires 2 years From Approval
Date Unless ~~Drilling~~ is Underway
Deepen

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief **I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Signature Denise Pinkerton

Printed name DENISE PINKERTON

Title REGULATORY SPECIALIST

E-mail Address leakejd@chevron.com

Date 03-03-2008 Phone 432-687-7375

OIL CONSERVATION DIVISION

Approved by Chris Williams

Title OC DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date MAR 06 2008 Expiration Date

Conditions of Approval Attached ☐

VGSAU No. 249
API No. 30-025-35563
Vacuum (Grayburg-San Andres) Field
Lea County, NM

Workover Procedure

1. Flow back well to tank battery.
2. RUPU. Kill well with 100 bbls. 10 ppg brine.
3. ND wellhead. NU BOP.
4. Release 5-1/2" Loc-Set packer and TOH.
5. TIH w/ 4-3/4" mill tooth bit, 6 3-1/2" drill collars on 2-7/8" workstring.
6. Cleanout fill (tagged at 4282' with slickline) and drill out float collar and float shoe. Circulate hole clean and TOH.
7. TIH w/ 4-3/4" button bit, 6 3-1/2" drill collars on 2-7/8" workstring. Deepen well to 5000'. Circulate hole clean and TOH.
8. Rig up casing crew and RIH w/ 4" float shoe, 1 jt. 4" flush joint liner, 4" float collar and 4" flush joint liner to surface.
9. Rig up cementers and cement liner with 350 sacks Class "C" cement as per Halliburton recommendation. WOC 24 hours.
10. Rig up wireline truck. Get on depth with Schlumberger GR-LithoDensity-CNL log dated 7/12/01 (GR peaks @ 4489+, 4562 and 4579-). Pull GR-RAL-CCL log from PBTD to top of cement. Run log with 1000 psi pressure from PBTD to 4,000'.
11. Pull GR-CNL-CCL log from PBTD to 3000'.
12. Perforate 4" liner across the Main Pay and TZ interval (perfs to be selected by Technical Team) using 2-3/4" OD guns w/ 2 JSPF @ 120 degree phasing.
13. TIH w/ 4" treating packer on 2-3/8" workstring and set at ~ 4720'. Swab out load water. Swab test one full day to obtain oil and formation water samples. Consult with Technical Team before proceeding to step 14.
14. Acidize the TZ perfs with 4,000 gallons 15% HCl in 2 equal stages with 1500# rock salt as a diverting agent.
15. Shut-in 2 hours and flow back load.
16. Release packer and pull up to 4,250'.
17. Acidize the entire San Andres interval with 4,000 gallons 15% HCL in two equal stages with 1500# graded rock salt between stages. Precede acid job with 1500# rock salt block in an attempt to block off TZ perfs.
18. Shut in 2 hours and flow back load. Release packer and TOH w/ workstring.
19. RIH w/ 3-1/2" mill tooth bit and casing scraper on 2-3/8" workstring and clean out rock salt. Clean out well to 4900'. TOH.
20. TIH w/ 4"Arrow Set packer and on/off tool on new 2-3/8" fiber lined tubing. Set packer at 4250'. Circulate packer fluid on the backside. ND BOP. NU wellhead.
21. Perform MIT test. Rig down pulling unit.
22. Return well to injection.
23. Run injection profile when injection rates stabilize.

PTB 2/26/08

VGSAU #249 Wellbore Diagram

Created:	03/29/06	By: C. A. Irle	Well #:	249	St. Lse:
Updated:	10/25/07	By: PTB	API	30-025-35563	
Lease:	Vacuum Grayburg San Andres Unit		Unit Ltr.:	F	Section: 1
Field:	Vacuum Grayburg San Andres Unit		TSHP/Rng:	S-18 E-34	
Surf. Loc.:	1,390' FNL & 2,530' FEL		Unit Ltr.:		Section:
Bot. Loc.:			TSHP/Rng:		
County:	Lea	St.: NM	Directions:	Buckeye, NM	
Status:	Active Injection Well		CHEVNO:	HD2328	

Surface Casing

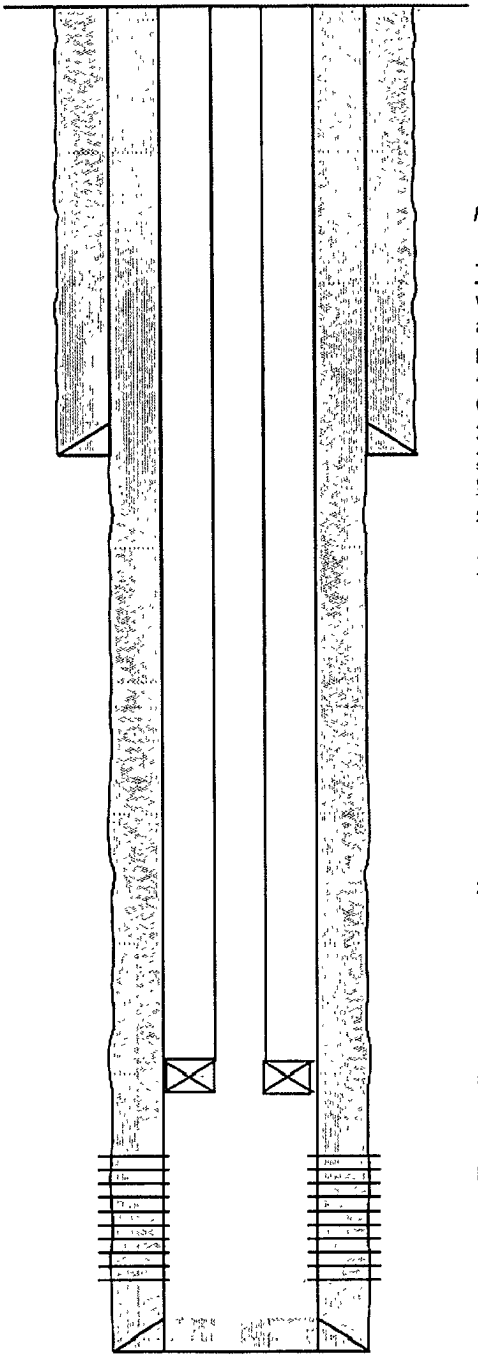
Size:	8 5/8"
Wt., Grd.:	24# K-55
Depth:	1,482'
Sxs Cmt:	700 H
Circulate:	Yes
TOC:	Surface
Hole Size:	12 1/4"

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"

Perforations

4292-4302, 4308-12, 4316-20, 4322-24, 4330-40, 4376-82, 4394-4404, 4438-50, 4458-66, 4472-74, 4492-4511, 4518-20, 4524-29, 4532-36, 4539-51, 4598-4614,4620-38, 4641-43, 4697-4700, 4702-14



PBTD: 4,762'
TD: 4,800'

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 Chg Pkr: Nickel plated Ducline.
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'

2-7/8" Duoline Tbg (133 jts.)

5-1/2" Loc-Set Pkr @ 4271'

Perfs: 4292 - 4714

Chevron U.S.A. Inc. Wellbore Diagram : VGSAU 249