

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

Form C-101  
May 27, 2

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

Submit to appropriate District Of

☐ AMENDED REPC

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

<sup>1</sup> Operator Name and Address CHEVRON U S A INC 15 SMITH ROAD MIDLAND, TEXAS 79705		<sup>2</sup> OGRID Number 4323 ✓
		<sup>3</sup> API Number 30 - 025-02248
<sup>3</sup> Property Code 30022	<sup>5</sup> Property Name VACUUM GRAYBURG SAN ANDRES UNIT	<sup>6</sup> Well No 57
<sup>9</sup> Proposed Pool 1 VACUUM GRAYBURG SAN ANDRES <62180>		<sup>10</sup> Proposed Pool 2

Surface Location

UL or lot no B	Section 1	Township 18S	Range 34E	Lot Idn	Feet from the 669	North/South line NORTH	Feet from the 1980	East/West line EAST	County LEA
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<sup>8</sup> 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
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Additional Well Information

<sup>11</sup> Work Type Code D (Deepen)	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code S ✓	<sup>15</sup> Ground Level Elevation 4001
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 4850'	<sup>18</sup> Formation GRAYBURG	<sup>19</sup> Contractor	<sup>20</sup> Spud Date
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls		Drilling Method Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		
Closed-Loop System <input type="checkbox"/>				

<sup>21</sup> Proposed Casing and Cement Program

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

<sup>22</sup> 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 zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

CHEVRON U S A INC INTENDS TO DEEPEN THE SUBJECT WELL TO THE TZ & STIMULATE.

THE INTENDED PROCEDURE IS ATTACHED FOR YOUR APPROVAL

A PIT WILL NOT BE USED FOR THIS DEEPENING

**Permit Expires 2 Years From Approval  
Date Unless Drilling Underway**

Deepen

RECEIVED

MAR 26 2008

HOBBS OCD

<sup>23</sup> 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 <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Signature Denise Pinkerton		Approved by Chris Williams	
Printed name: Denise Pinkerton		Title OCD DISTRICT SUPERVISOR/GENERAL MANAGER	
Title: Regulatory Specialist		Approval Date: MAR 27 2008	
E-mail Address: leakejd@chevron.com		Expiration Date	
Date: 03-24-2008	Phone: 432-687-7375	Conditions of Approval Attached <input type="checkbox"/>	

VGSAU No. 57  
API No. 30-025-02248  
Vacuum (Grayburg-San Andres) Field  
Lea County, NM

Workover Procedure

1. Rig up pulling unit. ND wellhead. NU BOP.
2. TOH w/ tubing and submersible pump.
3. TIH w/ 4-3/4" bit and 6 3-1/2" drill collars on 2-7/8" workstring.
4. Rig up reverse unit and power swivel.
5. Drill new open hole from 4710' to 4850' (Note: Open hole was under-reamed from 4255'-4693' to 6-3/4" in 1985). TOH.
6. TIH w/ 2-7/8" workstring w/ SN to 4710'.
7. Drop Vortech pulsation tool and land in SN.
8. Acidize new open hole 4710' to 4850' w/ 2,000 gallons 15% NEFE in four equal stages with the EOT @ 4850', 4800', 4750', and 4710'. TOH
9. TIH w/ 5-1/2" packer on 2-7/8" workstring and set @ 4000'.
10. Acidize the open hole interval 4082'-4850' w/ 6,000 gallons 15% NEFE HCl in three stages w/ 1500# graded rock salt between stages. Leave shut-in for one hour, open up well and flow back load. Release packer and TOH.
11. TIH w/ 4-3/4" bit on 2-7/8" workstring and clean out rock salt to 4850'. TOH.
12. TIH w/ sub pump on 2-7/8" production tubing.
13. Set pump at 4050'. ND BOP and NU wellhead.
14. Return well to production and test.

PTB 11/1/07

# VGSAU #57 Wellbore Diagram

Created: 03/28/06 By: C. A. Irle  
 Updated: 08/14/07 By: HLH  
 Lease: Vacuum Grayburg San Andres Unit  
 Field: Vacuum Grayburg San Andres Unit  
 Surf. Loc.: 669' FNL & 1,980' FEL  
 Bot. Loc.:  
 County: Lea St.: NM  
 Status: Active Oil Well

Well #: 57 St. Lse: 857948  
 API: 30-025-02248  
 Unit Ltr.: B Section: 1  
 TSHP/Rng: S-18 E-34  
 Unit Ltr.: Section:  
 TSHP/Rng:  
 Directions: Buckeye, NM  
 CHEVNO: FA3409

## Surface Casing

Size: 8 5/8"  
 Wt., Grd.: 20  
 Depth: 1,515'  
 Sxs Cmt: 325  
 Circulate: Yes  
 TOC: Surface  
 Hole Size: 10"

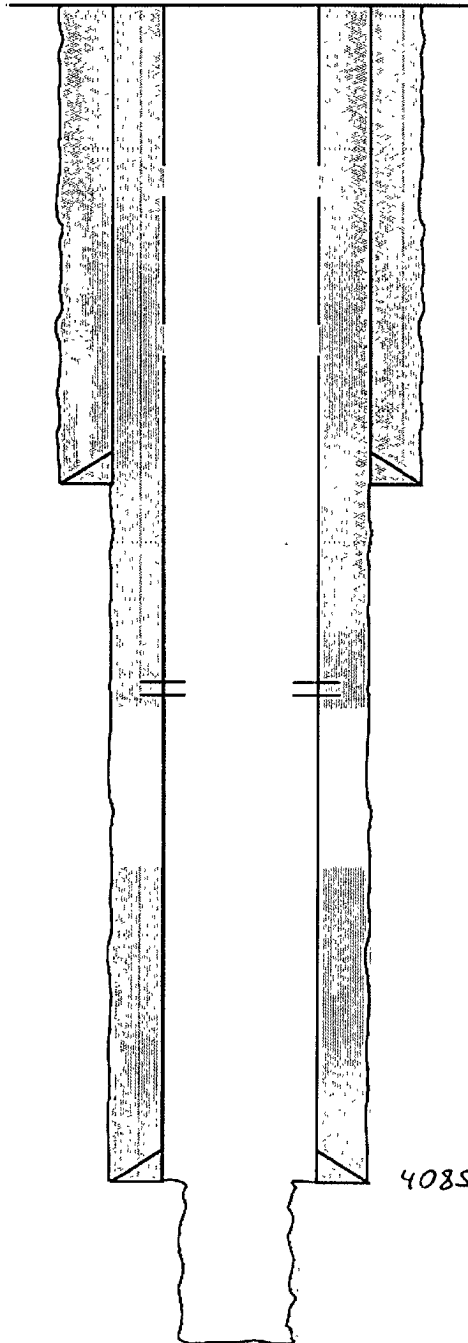
## Production Casing

Size: 5 1/2"  
 Wt., Grd.: 14#  
 Depth: 4,085'  
 Sxs Cmt: 200  
 Circulate: No  
 TOC: See Right  
 Hole Size: 6 3/4"

## Open Hole

Depth: 4,710'  
 Hole Size: 4 3/4"

## Perforations



KB:  
 DF: 4,001  
 GL:  
 Ini. Spud: 01/03/40  
 Ini. Comp.:

## History

12/27/71 Acid: 1000 gls 15% NEA.  
 8/13/73 Frac: Tbg 3 1/2", pkr 4354, frac  
 30000 gls 900# RS 1000 gls 15% NEA.  
 2/6/80 Frac: CO 4710 (PBTD), pkr 4260,  
 acid 6000 gls 15% NE 3200# RS, frac  
 15000 gls 23500# 20/40 snd 400# RS 400#  
 BA, perf 2 js 2354, sqz 500 sx, RBP 2250  
 snd 2 sx. cmt 350 sx circ, sqz perf 250 sx,  
 leaks 334 & 1165, sqz 25 sx ea.  
 5/23/85 Stim: CO, pkr 3930, acid 15000 gls  
 15% NEFE 500# RS 500# MB.  
 7/26/85 Stim: CO 4664-4710, acid 15000  
 gls 15% NEFE 2000# RS 2000# MB, RBP  
 3900 2 sx snd, isolate leaks, leak 1130-  
 1200, spot acid, pkr 1010, sqz 250 sx.  
 4/8/90 Stim: Tag 4677, CO 46977, spt 600  
 gls amm bicarb, spt 600 gls 15% NEFE,  
 acid 1900 gls 15% NEFE, SIS.  
 7/18/01 Frac: Tbg 4182, spt 3500# 20/40  
 snd, tag 4605, spt 3250# 20/40 snd, tag  
 4485, frac 117175# 16/30 snd, tag 4448,  
 CO 4710 (PBTD), pkr 3962.

PBTD:  
 TD: 4,710