

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 ResourcesForm C-
May 27, 2Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Of

☐ AMENDED REPCAPPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address CHEVRON U S A INC. 15 SMITH ROAD MIDLAND, TEXAS 79705		² OGRID Number 4323
		³ API Number 30 - 025-02252
³ Property Code 30022	⁵ Property Name VACUUM GRAYBURG SAN ANDRES UNIT	
⁹ Proposed Pool 1 VACUUM GRAYBURG SAN ANDRES		⁶ Well No 40
⁹ Proposed Pool 1		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no E	Section 1	Township 18-S	Range 34-E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 660	East/West line WEST	County LEA
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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
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Additional Well Information

¹¹ Work Type Code D	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3997'
¹⁶ Multiple NO	¹⁷ Proposed Depth 4850'	¹⁸ Formation SAN ANDRES	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit	Liner Synthetic <input type="checkbox"/> mls thick	Clay <input type="checkbox"/>	Pit Volume: _____ bbls	Drilling Method:
Closed-Loop System <input type="checkbox"/>		Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC

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 zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.
CHEVRON U.S.A. INC INTENDS TO DEEPEN THE SUBJECT WELL INTO THE SAN ANDRES TRANSITION ZONE, ACIDIZE, & RETURN TO PRODUCTION.

A PIT WILL NOT BE USED FOR THIS DEEPENING

THE INTENDED PROCEDURE & WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.

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

RECEIVED

FEB - 4 2008

HOBBS OCD

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.

Printed name: DENISE PINKERTON

Title REGULATORY SPECIALIST

E-mail Address leakejd@chevron.com

Date 02-01-2008

Phone. 432-687-7375

OIL CONSERVATION DIVISION

Approved by

Title

Approval Date.

FEB 05 2008

Expiration Date.

Conditions of Approval Attached ☐

VGSAU 40

Vacuum (Grayburg San Andres) Field, Lea County NM

API No. 30-025--02252

Procedure to: C/O, Deepen & Stim Stim T-Z

According to LOWIS this is a rod pump well w/ 70-1", 91-7/8", 18-1.5" WB.

- 1 MU RU PU & RU. Kill well if necessary. .
- 2 Un-hang well. ND horsehead. POH with rods and pump
- 3 ND WH. NU BOP. POH w/ prod tbg.
- 4 PU 4 3/4" MT bit, DC's, on 2 7/8" N-80 WS. C/O open-hole to TD @ 4712'. Once formation shows in returns and there is a need to trip for bit, RIH w/ 4 3/4" button bit and drill new hole to TD of 4850'. Circ.hole clean. POH w/ bit.
- 5 MIRU Baker Atlas for logging job, log GR-CNL from new TD to 3850' (logging min.) Tie into Dresser Atlas's GR-SNL dated 6/12/72. Send logs into Office.
- 6 TIH w/ 5 1/2" treating packer on 2-7/8" workstring and set at ~4075'.
- 7 MI RU Halliburton to acidize the San Andres open-hole interval with 8,000 gallons 15% HCL in 4 equal stages Drop 1500-2500# rock salt between stages mixed in GBW. Rate 5-6 BPM Max press 5000 psi. SI 2 hrs. Flowback to tank to recover load.
- 8 Kill well with 10 ppg BW if nec. Rlse Pkr & POOH with WS and PKR.
- 9 TIH w/ notched collar and circ out rock salt to TD of 4850'. TOH w/ WS and Notched collar.
- 10 GIH w/ Pkr on WS set pkr @ ~4075'. Sqz Open-hole interval w/ scale inhibitor per Baker Petrolite recommendation. SI over night. POH w/ WS & Pkr LD.
- 11 RIH with Production equipment as per ALCR-Bobby Hill. Hang well on.
- 12 Clean location. RDMO PU & RU.
Turn well over to production department.

LGB 1/29/08

VGSAU #40 Wellbore Diagram

Created: 07/07/03 By: SMG
 Updated: 12/17/07 By: BSPT
 Lease: Vacuum Grayburg San Andres Unit
 Field: Vacuum Grayburg San Andres Unit
 Surf. Loc.: 1980' FNL & 660' FWL
 Bot. Loc.:
 County: Lea St.: NM
 Status: Active Oil Well

Well #: 40 St. Lse: 857948
 API: 30-025-02252
 Unit Ltr.: E Section: 1
 TSHP/Rng: 18S-34E
 Unit Ltr.: Section:
 TSHP/Rng:
 Directions: Buckeye, NM
 CHEVNO: FA3413

Surface Casing

Size: 8 5/8"
 Wt., Grd.: 28#, LW
 Depth: 1559'
 Sxs Cmt: 300
 Circulate: 100, 1"
 TOC: Surface
 Hole Size: 10"

Production Casing

Size: 5 1/2"
 Wt., Grd.: 17#
 Depth: 4076'
 Sxs Cmt: 200
 Circulate: No
 TOC: 2650', CBL
 Hole Size: 6 3/4"

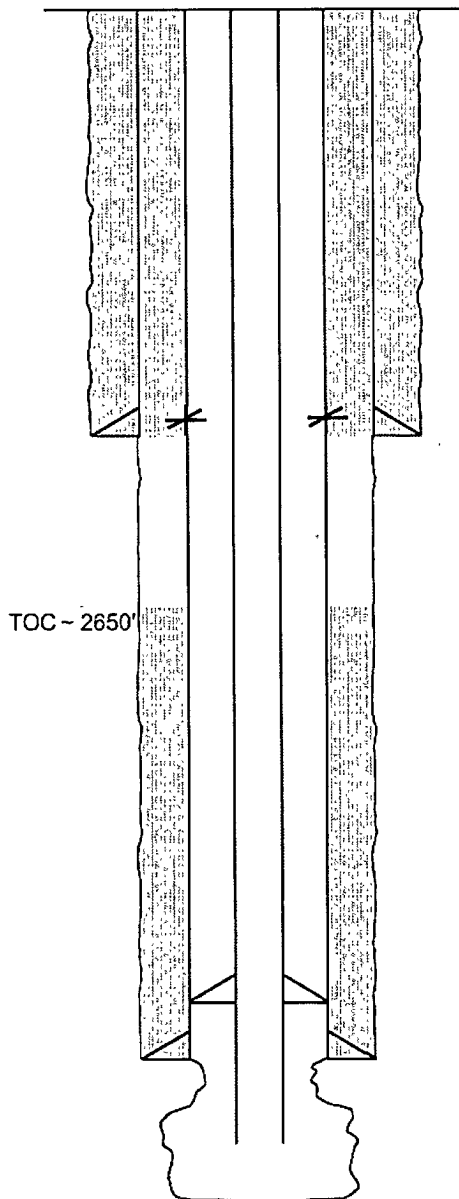
Open Hole

Depth: 4076'-4325'
 Hole Size: 4 3/4"
 Depth: 4325'-4712'
 Hole Size: 6 1/4"

Under-Ream

Top: 4325'
 Bottom: 4712'
 Hole Size: 6 1/4"

Equipment	Depth
2 7/8" Tbg	0
TAC	3592.63
2 7/8" Tbg	3595.41
Blast Joint	4423.51
Tbg Sub	4443.87
Tbg Sub	4453.97
SN	4464.03
Perf Sub	4465.13
Mud Anchor	4469.23



KB: 4010'
 DF: 4008'
 GL: 3997'
 Ini. Spud: 6/7/1940
 Ini. Comp.: 7/3/1940

History

7/40 Initial Completion: Unknown
 7/72 Acidize: Spot Xylene, Pump 3000 gal 15% NEA w/ 900# RS & 300# BAF
 10/72 Frac: Set frm pkr @ 4414', Frac OH 4414'-4712' w/ 30000 gals gelled lse crude w/ 21K# 20/40 & 9K# 10/20 sand
 4/74 Frac: Se: BP @ 4414', Frac OH 4069'-4414' w/ 10000 gal, 70% oil 30% water w/ 12500# sand
 9/77 Acidize & Sqz: Acidize OH w/ 6000 gal 15% NEA w/ 2000# RS, Find water flow, drop sand to 4321', sqz w/ 4000 gal Injectrol & 200 sx cmt
 11/80 Rpr Wtr Flow & Acidize: TOC found @ 2650', Perf 5 1/2" w/ 2 js @ 1585', Circ 230 sx cmt & sqz w/ 170 sx, Tested OK, Acidize OH w/ 6000 gal 15% NEA w/ 2000# RS
 1/87 Acid Frac: Pump 10000 gal XL gelled 15% NEFE acid w/ 6500# RS
 8/89 Acid: Spot cnvrtr, pump, 2000 gal 15% NEFE. SIS.
 1/95 Acid: Pump 15600 gal 15% NEFE acid w/ 6000# RS n 3 stages. SIS.
 7/97 Acid: Pump 6000 gal 15% NEFE acid w/ 3150# RS n 4 stages. No block.
 3/98 Acid Frac: Spot sand & Calseal to 4455', Frac OH w/ 12000 gal 20% NEFE
 10/99 Acid: Pump 6000 gal 15% NEFE acid w/ 6500# RS n 3 stages. SIS.
 10/01 Acid: Pump 3000 gal 20% NEFE acid w/ 4000# RS. Good block.
 11/01 Frac: Drop sand to 4420', Frac OH w/ 61000 gal YF-135, 117700# Resin coated @ 2-6 PPG
 12/04 Acid: Pump 8000 gal 15% NEFE gelled brine acid w/ 5000# RS in 4 stages. SIS.

PBTD: 4,712
 TD: 4,712