District I State of New Mexico Form C-101 1625 N. French Dr., Hobbs, NM 88240 **Energy Minerals and Natural Resources** District II 1301 W. Grand Avenue, Artesia, NM 88210 Submit to appropriate District Office District III **Oil Conservation Division** 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. District IV Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address OGRID Number 4323 **API** Number CHEVRON U.S.A. INC. 15 SMITH ROAD, MIDLAND, TX 79705 30 - 025 - 02273Property Code 30022 Property Name Well No. VACUUM GRAYBURG SAN ANDRES UNIT 22 ⁹ Proposed Pool 1 ¹⁰ Proposed Pool 2 VACUUM GRAYBURG SAN ANDRES Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line к 2 18-S 34-E 1980' SOUTH 1980 WEST ⁸ Proposed Bottom Hole Location If Different From Surface UL or lot no. Section Townshin Lot Idn Feet from the North/South line Range Feet from the East/West line Additional Well Information 11 Work Type Code ² Well Type Code 13 Cable/Rotary ¹⁴ Lease Type Code ¹⁵ Ground Level Elevation 0 S 4013 D

⁶ Multiple Proposed Depth 18 Formation 19 Contractor 20 Spud Date NO 4900 GRAYBURG SAN ANDRES 2-23-05 Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water Liner: Synthetic Pit: mils thick Clay Pit Volume: bbls Drilling Method: Fresh Water Brine Diesel/Oil-based Gas/Air Closed-Loop System Proposed Casing and Cement Program Hole Size Casing Size Casing Setting Depth Sacks of Cement Estimated TOC weight/foot 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 zone Describe the blowout prevention program, if any. Use additional sheets if necessary. 5**9**01U CHEVRON U.S.A. INC. INTENDS TO DEEPEN THE SUBJECT WELL TO 4900'. LAST CLEAN OUT WAS IN 9-02-04. C/O DEPTH WAS 4710'. DEEPENED IN 5-15-74 FR 4710-4755. PLUGGED BACK IN 12-22-98 TO 4700'. PLEASE SEE ATTACHED PAGE FOR INTENDED PROCEDURE. CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL. ***A PIT WILL NOT BE USED FOR THIS DEEPENING. A STEEL FRAC TANK WILL BE UTILIZED. ²³ I hereby certify that the information given above is true and complete to the OIL CONSERVATION DIVISION best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or Approved by: an (attached) alternative OCD-approved plan . Printed name: DENISE PINKERTON Title: M ENGINEER Title: REGULATORY SPECIALIST Approval Date: Expiration Date E-mail Address: LEAKEJD@CHEVRONTEXACO.COM FEB 2 3 2005 Date: 2-17-05 Phone: 432-687-7375 Conditions of Approval Attached

AMENDED REPORT

County

LEA

County

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ear From Approva

May 27, 2004

VI- Procedure:

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- 1- MIRU. ND well head & NU BOP.
- 2- <u>Pull Out Rods</u>. TOH w/ rods. L/D rods. Inspect for replacement. Evaluate pump condition and replace if required.
- 3- Pull Out Tubing: Unset TAC. TOH w/ tubing. Inspect visually.
- 4- Clean Out: P/U 4 ¾" bit, 10 Drill Collars (4 ¼" x 2" ID or 1 ¾" ID 37.5#/ft or 40#/ft) and 2 7/8" tubing. TIH to tag and clean out to PBTD @ 4710'. Drill from 4710' to 4900'. If we find signs of water flow STOP immediately. That will be new TD point. Short trip. C/O to 4900'. TOH and lay down DC's and bit.
- 5- Log Well: R/U Schlumberger. Run Spectral GR, Neutron Density w Pe., Resisitivity Logs w/ Rxo tool, Sonic Log. From 4333' to 4900'.
- 6- Stimulate Open Hole: TIH w/ 2 7/8" tubing and 5 ½" packer. Set @ 4230'. Pump 6000 gls 15% acid in 3 stages (2000 gls each) w/ 4000 # rock salt. This will account for 3 feet of penetration from the top of the San Andres to the PBTD.
- 7- **<u>Run Production Equipment:</u>** Run production tubing and rods. Upsize rod pump. Set pump at same depth. Optimum Pump design is:

| Previous Production: | = Oil Rate + Water Rate |
|------------------------|------------------------------|
| | = 15*1.2 + 300 = 318 bpd |
| Incremental Production | = 10 Oil + 100 Water = 110 |
| New Production | = 428 bpd |

8- Return well to Production.

Prepared by Mario A. Ballesteros

VGSAU 22

30-025-022730001 16-Feb-05

DATE:

1980' FSL & 1980' FWL SEC 2. TWN 18-S. Range 34-E. County Lea ELEVATION: 4013' GL, 4022' DF Completed: 12/27/1940

ACTUAL WELLBORE DIAGRAM



PRODUCTION COMMENTS

VGSAU 22

API # <u>30-025-022730001</u> DATE: <u>16-Feb-05</u> 1980' FSL & 1980' FWL SEC 2, TWN 18-S, Range 34-E, County Lea ELEVATION: 4013' GL, 4022' DF Completed: 12/27/1940

PROPOSED WELLBORE DIAGRAM



PRODUCTION COMMENTS