

District I  
1625 N French Dr., Hobbs, NM 88240  
Phone (575) 393-6161 Fax (575) 393-0720  
District II  
811 S First St., Artesia, NM 88210  
Phone (575) 748-1283 Fax (575) 848-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone (505) 334-6178 Fax (505) 334-6170  
District IV  
1220 S St Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

HOBBS OCD

SEP 28 2011

RECEIVED

Form C-101  
Revised August 1, 2011

Permit

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

Operator Name and Address CHEVRON U.S.A. INC 15 SMITH ROAD MIDLAND TEXAS 79705		OGRID Number 4323
Property Name CENTRAL VACUUM UNIT (formerly Vacuum Glorieta West Unit #80)		API Number 30-025-31709
Property Code 29923	Well No 271	

Surface Location

UL - Lot G	Section 36	Township 17-S	Range 34-E	Lot Idn	Feet from 2517	N/S Line NORTH	Feet From 2442	E/W Line EAST	County LEA
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Pool Information

VACUUM GRAYBURG SAN ANDRES
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Additional Well Information

Work Type RC & chng name	Well Type I	Cable/Rotary	Lease Type S	Ground Level Elevation
Multiple NO	Proposed Depth 6275'	Formation SAN ANDRES	Contractor	Spud Date
Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water		

Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
			NO CHANGE			

Casing/Cement Program: Additional Comments

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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

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 ☐.

Printed name: DENISE PINKERTON

Title: REGULATORY SPECIALIST

E-mail Address: leakejd@chevron.com

Date: 09-27-2011

Phone: 432-687-7375

OIL CONSERVATION DIVISION

Approved By

Title

Approved Date: 10-20-2011

Expiration Date: 10-20-2013

'Condition for Approval' Approval for recompleting ONLY Cannot inject into the wellbore without an Injection order approved by the OCD Santa Fe Office

Condition of Approval: Notify OCD Hobbs office 24 hours prior to running MIT Test & Chart.

OCT 20 2011

Permit Expires 2 Years From Approval Date Unless Drilling Underway Plugback

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☒ AMENDED REPORT

**RECEIVED**  
**SEP 28 2011**  
**HOBBS OCD**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-2109 <b>31709</b>	<sup>2</sup> Pool Code 62180	<sup>3</sup> Pool Name VACUUM; GRAYBURG, SAN ANDRES
<sup>4</sup> Property Code	<sup>5</sup> Property Name CENTRAL VACUUM UNIT (formerly Vacuum Glorieta West Unit #80)	<sup>6</sup> Well Number 271
<sup>7</sup> OGRID No. 4323	<sup>8</sup> Operator Name CHEVRON U.S.A. INC.	<sup>9</sup> Elevation

<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	36	17-S	34-E		2517	NORTH	2442	EAST	LEA

<sup>11</sup> 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
<del>0</del>	<del>2</del>	<del>17-S</del>	<del>34-E</del>		<del>2517</del>	<del>SOUTH</del>	<del>2442</del>	<del>EAST</del>	<del>LEA</del>
<sup>12</sup> Dedicated Acres 40		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<b><sup>17</sup> OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature: <u>Denise Pinkerton</u> Date: <u>09-27-2011</u>  Printed Name: <u>DENISE PINKERTON</u> REGULATORY SPECIALIST  Email Address: <u>leakejd@chevron.com</u>
	<b><sup>18</sup> SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date of Survey Signature and Seal of Professional Surveyor
	Certificate Number

## **CVU #271 (Previously VGWU 80)**

**Job: Perf and Acidize**

**API No. 30-025-31709**

**Lea County, NM**

**TA'd injector**

### **Workover Procedure:**

1. Open well and bleed pressure from casing prior to MIRU pulling unit. Note that well should be dead due to CIBP set @ 5730'. Open surface valve & record pressure. Bleed pressure from surface & load with water.
2. MIRU PU & auxiliary equipment
3. Bleed pressure from well as necessary. Note that well should be dead due to CIBP set @ 5730'. Check pressure on surface valves and monitor throughout job.
4. ND wellhead.
5. NU 5M hydraulic BOP w/ blind rams in bottom & 2 7/8" pipe rams in top. PU 5-1/2" packer & set at 30'. Test pipe rams to 250 low & 1000 psi high for 5 minutes. (Surrounding injectors are actively injecting with pressures ranging from vacuum to 1800 psi). LD packer and test joint.
6. TIH with 4-3/4" MT bit on 2-7/8" EUE L-80 6.5# workstring. Tag cement on top of CIBP @ +/- 5695'. Note tag depth in Wellview.
7. Circulate hole clean.
8. TOH standing back workstring & LD bit
9. Load hole & pressure test casing against blind rams down to CIBP & cmt to 550 psi. Note test details in WellView as a potential leak isolation & squeeze may be required above 5730'. If pressure falls below 500 psi, TIH with 5 1/2" packer & RBP on 2-7/8" workstring and set RBP +/- 25' above previous tag depth. Pressure test RBP to 750 psi & Isolate casing leak interval. Establish leak injection rate, pressure, and pressure bleed-off response. Notify remedial engineer for cement squeeze design & squeeze leak.

Note that a known leak interval was encountered from 5764' – 5795' (San Andres) during a previous workover – this could be a communication source.

10. RU wire line unit & lubricator. Correlate depth with Halliburton's Spectral Density Dual Spaced Neutron Log dated 11/27/92. Perforate the 5 1/2" casing w/ 2 JSPF, 120 degree phasing, 4" EHC Predator, 0.47" EHD, 49' TTP Baker Hughes charges as follows: 4354'-4358', 4373'-4377', 4380'-4384', 4398'-4402', 4410'-4414', 4428'-4432', 4466'-4470', 4550'-4554', 4562'-4566', 4582'-4586', 4592'-4596', 4612'-4616' (96 total holes). Ensure that all shots fired.
11. TIH w/ 5 1/2" treating packer on 2-7/8" workstring hydrotesting to 5000 psi below slips. Set packer @ +/- 4300'. Load casing and test to 500 psi.
12. MIRU Acid Unit. Acidize perms w/ 5,000 gallons 15% NEFE HCL. Divert using 50% excess bio-ball sealers spread evenly throughout the job. Pump acid at 8 BPM. Max Pressure = 4800 psi. Displace with FW to bottom perf @ 4616'. Apply 250 psi to backside and monitor throughout acid job to ensure packer integrity.
13. Shut-in for 1 hour to allow acid to spend and allow the bio-balls to break down.
14. Open well and attempt to surge any leftover balls off seat. If well will flow, flow back load. Record stabilized fluid level, fluid entry rate, monitor returns for traces of oil and notify Production Engineer. If well will not flow, release packer & run past new perforations to knock any balls off seat.
15. TOH LD treating packer & workstring
16. TIH w/ 5-1/2" nickel plated internally plastic coated injection packer w/ 1.50" ID 'F' stainless steel profile nipple on & on/off tool on new 2-3/8" J-55, EUE 8RD, 4.7# Fiberlined injection tubing. Set packer @ +/- 4320'.
17. Release from on/off tool & circulate packer fluid.
18. Latch back on to packer & perform preliminary MIT - Chart and test casing to 550 psi for 30 minutes.
19. ND BOP
20. NU wellhead
21. Notify ALCR and OCD of intent to perform official MIT w/ 24 hrs notice. Chart and test to 500 psi for 30 minutes.
22. RDMO PU

23. Turn well over to production.

Contacts:

Nathaniel Brummert – Remedial Engineer (713-409-6170)

Carlos Valenzuela – ALCR (Cell: 575-390-9615)

Edgar Acero – Production Engineer (432-687-7343 / Cell: 432-230-0704)

Heath Lynch – Drilling Superintendant (281-685-6188)

Nick Moschetti - OS (432-257-6091)

**VGWU 80 WIW - Current**  
**API No. 30-025-31709**

**Well Location**

2517 FNL & 2442 FEL  
 Unit G,  
 Sec 26, T17S, R34E

8-5/8" 24# CSG set @ 1550'

11/18/92- Spud  
 12/17/95- Pumped 2003 bbls polymer gel  
 6/20/1997- Sq 5959-6159 w/ 75 sxs H cmt. DO to 6187', spot 75 sx & DO to 6070', Perf 5930-68, 5980-6020, Ac w/ 4000 glas + 3500# RS, 3.5 BPM, Inj 1097/26#  
 5/20/1999- Identified csg leak 5764-5795, moved up packer to 5758'

4/6/05- Gray Wireline tag @ 5764'

5/9/05- CO w/ 1 1/4" CT w/ SH Tool to 6013', 1 BPM, circ pressure 4800#, wellhead pressure 4#, wtr used 255 bbls (attempting to CO to get profile)

6/05- Gray Wireline tagged @ 5790' while attempting to capture profile

8/06- CO fill to 5971'. Tested cgs above 5719'-ok. Spotted sand to 5901'. Set cmt retainer, could not pump thru. DO retainer CO to 5930'. Milled 5764'-5795', Set cmt retainer 5672', sq 150 sxs, cmt w/ 150 sxs. DO cmt, CO 5971'. Set 2 3/8 IPC tbq w/ Arrow set pkr 5743'

10/06- TA. Approval expires 10/17/11.

DV tool 5007

CIBP @ 5730' w/ 35' cmt on top

Casing Leak problems 5764'-5795'  
 San Andres zone

Top of Glorieta @ 5832

Glorieta Marker @ 5916

Top of Paddock @ 5959

Perfs: 5930-68, 5980-6020  
 (2 JSPF, 156 holes)

Squeezed perfs 5959-67, 5979-6023, 6118-6159'

Top of Lower Paddock @ 6122

5-1/2" CSG set @ 6275'

PBTD = 6070  
 TD = 6275'

