

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

Form C-101
Revised August 1, 2011

Permit

HOBBS OCD

APR 02 2012

RECEIVED

APPLICATION 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 30-025-20863
⁴ Property Code 30021	⁵ Property Name VACUUM GLORIETA WEST UNIT (WILL BE CHANGED TO CVU #350)	⁶ Well No 62

⁷ Surface Location

UL - Lot D	Section 31	Township 17-S	Range 35-E	Lot Idn	Feet from 760	N/S Line NORTH	Feet From 560	E/W Line WEST	County LEA
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⁸ Pool Information

VACUUM GRAYBURG SAN ANDRES	62180
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Additional Well Information

⁹ Work Type RC & chng name	¹⁰ Well Type O	¹¹ Cable/Rotary	¹² Lease Type S	¹³ Ground Level Elevation 3996' GR
¹⁴ Multiple NO	¹⁵ Proposed Depth 6850'	¹⁶ Formation SAN ANDRES	¹⁷ Contractor	¹⁸ Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

¹⁹ 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

Permit Expires 2 Years From Approval Date Unless Drilling Underway

Proposed Blowout Prevention Program Plugback

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 <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . <i>Denise Pinkerton</i>		OIL CONSERVATION DIVISION	
Printed name: DENISE PINKERTON		Approved By. <i>[Signature]</i>	
Title REGULATORY SPECIALIST		Title PETROLEUM ENGINEER	
E-mail Address leakejd@chevron.com		Approved Date	
Date 03-29/2012		Expiration Date:	
Phone 432-687-7375		APR 03 2012	
		Conditions of Approval Attached	

APR 03 2012

CVU No. 350 (former VGWU 62)
API No. 30-025-20863
Vacuum (Grayburg-San Andres) Field
Lea County, NM

WORKOVER PROCEDURE

PREWORK:

1. Check anchors and verify that pull test has been completed in the last 24 months.
2. Ensure location of & distance to power lines is in accordance with MCA SWP. Complete and electrical variance and electrical variance RUMS if necessary.
3. Ensure that location is of adequate build and construction.
4. Ensure that elevators and other lifting equipment is inspected/calipered at the beginning of each work day.
5. Ensure that surrounding injection well(s) have been shut in according to the WAG/SI schedule created by Lee Ivanhoe (432) 687-7105.

WITH RIG:

1. MIRU pulling unit & auxiliary equipment.
2. Check well for pressure & bleed off as necessary. Note that the well should be dead due to a CIBP set at 5962'. Open bradenhead valves, bleed pressure, and monitor throughout the job.
3. Ensure well is dead & ND well head.
4. NU 5K hydraulic BOP with blind rams on bottom, 2-3/8" pipe rams on top. NU stripper head. RU choke manifold & 2 blow down tanks.
5. Pick up 4-1/2" 11.6# packer and set at 30'. Test pipe rams to 250 psi low, 500 psi high for 5 minutes. LD test joint and packer. Test blind rams & casing to 550 psi.
6. Fill hole and test casing from blind rams to CIBP to 550 psi for 10 minutes. Notify remedial engineer if the casing fails the pressure test.
7. TIH with BP & perf'd sub on NEW 2-3/8" 4.7# J55 EUE production tubing & lightly tag top of CIBP @ +/- 5962'.
8. RU cementing unit. Test lines to 1000 psi.

Spot balanced cement plug from top of CIBP @ 5962' to 5100' using 70 sks Class H neat cement (density = 16.4 ppg, mix water = 4.3 gal h2O / sk, yield = 1.06 ft³/sk). Add 2% Calcium Chloride mixed on the fly to the last +/- 25 sks.

9. Pull up hole to 5100' & reverse clean. (Ensure 150' of rat hole is left below bottom perf).
10. TOH stand back 2-3/8" production tubing & LD BP & perf sub.
11. MIRU E-line unit & lubricator. Pressure test lubricator to 500 psi against cement plug.

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Perforate the 4-1/2" casing 3-1/8" 3325 Predator guns (23g charge, 0.35" AEHD, 31.1" ATP) at 2 JSPF as follows:

4935'-44', 4910'-23', 4895'-4905', 4875'-85', 4860'-64', 4834'-42', 4824'-28', 4782'-96', 4755'-65', 4744'-52', and 4732'-40'

RDMO E-line unit.

12. RIH with 4-1/2" 11.6# treating packer on 2-3/8" production tubing. Set the packer at 4680'. Load the casing and test to 500 psi. Hydrotest to 6000 psi.
13. Rig up acid truck. Acidize perms 4732'-4944' with 11,000 gallons 15% NEFE HCl. Divert acid using 330 1.2 s.g. 7/8" bio-ball sealers spread out evenly throughout the job. Pump acid at 8-10 bpm. Maximum pressure = 5800 psi. Displace acid with freshwater to bottom perf.

Apply +/- 250 psi to annulus during acid job & monitor to ensure packer does not leak.
14. Shut-in one hour to allow acid to spend.
15. Open well up and flow back load – attempt to surge bio-balls off seat. If well will not flow, begin swabbing. Swab until fluid recovered is clean – consult with Production Engineer Paul Brown prior to completing swab operations to ensure collected swab data and/or fluid quality is sufficient.
16. Release packer. Drop down to 4960' to knock off any ball sealers that did not unseat.
17. TOH stand back production tubing & LD treating packer.
18. Rig up cable spooler & RIH with Centrilift P12 submersible pump on 2-3/8" production tubing. Set bottom of motor at +/- 4,750'.
19. Ensure well is dead & ND BOP.
20. NU QCI wellhead.
21. Place well on production.

PTB 3/13/12

Contacts:

Nate Brummert – Remedial Engineer (office: 432-687-7512, cell: 713-409-6170)
Paul Brown – Production Engineer (office: 432-687-7351, cell: 432-238-8755)
Heath Lynch - Drilling Supt. (office: 432-687-7402, cell: 432-238-8667)
Danny Acosta – ALCR (cell: 432-631-9033)
Nick Moschetti – OS (cell: 432-631-0646)

CVU # 350 Wellbore Diagram

Created: 03/09/12 By: PTB
 Updated: By:
 Lease: Central Vacuum Unit
 Field: Vacuum Grayburg San Andres
 Surf Loc:
 Wellbore #: 428313
 County: LEA St. NM
 Status: TA (former VGWU 62)

Well # 350 Fd./St. #:
 API 30-025-20863
 Surface Tshp/Rng D-31-17S-35E
 Unit Ltr. D 560 Section: 31
 Bottom Tshp/Rng D-31-17S-35E
 Unit Ltr.: Section:
 Direction:
 Chevno: FB4336

Surface Casing

Size: 9 5/8
 Wt., Grd.: H-40 32 30#
 Depth: 1,568
 Sxs Cmt: 800
 Circulate: Yes
 TOC:
 Hole Size: 12 1/4

KB: 3,996
 DF:
 GL:
 Ini. Spud: 06/30/94
 Ini Comp: 07/21/64

History

4/18/2007: CIBP set @ 5962'

Test csg to 550 PSI

Well TA

8/26/2002:

TOH w/ production Equipment

Set CIBP @ 5962'

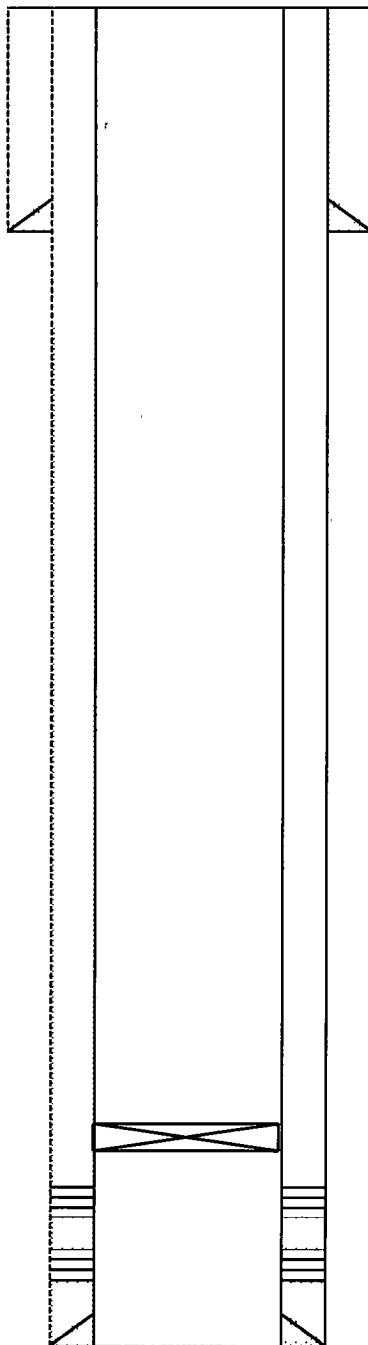
Circulated hole w/ inhibited fluid and tested 600# for 30 min.

TOH w/ tbg Request TA well status be extended

Last Produced : 12/1/1988

Production Casing

Size: 4-1/2'
 Wt., Grd.: J-55 11.60#
 Depth: 6850'
 Sxs Cmt: 2300'
 Circulate: Yes
 TOC: Surface
 Hole Size: 8 3/4



CIBP @ 5962'

Gloriga Perfs. 6025'-6061'

PBTD 6800'

TD: 6850'

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Energy, Minerals & Natural Resources Department
HOBBS OCD OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
APR 02 2012

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

RECEIVED LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-20863	² Pool Code 62180	³ Pool Name VACUUM; GRAYBURG, SAN ANDRES <i>KE</i>
⁴ Property Code	⁵ Property Name VACUUM GLORIETA WEST UNIT (will be changed to Central Vacuum Unit #350)	⁶ Well Number 62
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	31	17-S	35-E		760	NORTH	560	WEST	LEA

¹¹ 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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

	¹⁷ OPERATOR CERTIFICATION <i>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</i> <i>Denise Pinkerton</i> 03-29-2012 Signature Date DENISE PINKERTON REGULATORY SPECIALIST Printed Name leaked@chevron.com E-mail Address			
	¹⁸ SURVEYOR CERTIFICATION <i>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.</i>			
	Date of Survey Signature and Seal of Professional Surveyor			
	Certificate Number			