

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
June 16, 2008

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

RECEIVED
FEB 15 2010
HOBBS CO

Submit to appropriate District Office

☐ AMENDED REPORT

**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 - 025-03091
³ Property Code 29923	⁵ Property Name CENTRAL VACUUM UNIT	⁶ Well No 103
⁹ Proposed Pool 1 VACUUM GRAYBURG SAN ANDRES		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no G	Section 6	Township 18-S	Range 35-E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 1980	East/West line EAST	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 DRILL DEEPER	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3961' GL
¹⁶ Multiple NO	¹⁷ Proposed Depth 4800'	¹⁸ Formation SAN ANDRES	¹⁹ Contractor	²⁰ Spud Date

²¹ Proposed Casing and Cement Program

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

CHEVRON U.S.A INC INTENDS TO DEEPEN THE SUBJECT WELL IN THE SAN ANDRES TRANSITION ZONE TO 4800' AND ACIDIZE TO INCREASE PRODUCTION

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM & C-144 PIT INFORMATION

WE WILL NOT UTILIZE A DRILLING RIG INSTEAD, A PULLING UNIT WITH A REVERSE UNIT WILL BE UTILIZED

Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Deeper

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief

Signature:

Denise Pinkerton

Printed name
DENISE PINKERTON

Title
REGULATORY SPECIALIST

E-mail Address
leakejd@chevron.com

Date
02-12-2010

Phone
432-687-7375

OIL CONSERVATION DIVISION

Approved by

Title

PETROLEUM ENGINEER

Approval Date
FEB 24 2010

Expiration Date.

Conditions of Approval Attached ☐

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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 October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-03091	² Pool Code 62180	³ Pool Name VACUUM GRAYBURG SAN ANDRES
⁴ Property Code 29923	⁵ Property Name CENTRAL VACUUM UNIT	
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁶ Well Number 103
		⁹ Elevation 3961' GL

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
G	6	18-S	35-E		1980	NORTH	1980	EAST	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.

¹⁶ 	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> Signature _____ Date 02-23-2010 DENISE PINKERTON REGULATORY SPECIALIST Printed Name _____
	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 _____

CVU No. 103
API No. 30-025-03091
Vacuum (Grayburg-San Andres) Field
Lea County, NM

Workover Procedure

1. MIRU PU. Kill well as necessary.
2. Pull rods and pump.
3. ND wellhead. NU BOP.
4. Unset tubing anchor.
5. TOH w/ production tubing.
6. TIH w/ 4-3/4" mill tooth and drill collars on 2-7/8" workstring. Rig up reverse unit and power swivel. Drill to 4800'.
7. Circulate hole clean and spot 250 gallons of 15% HCl.
8. TOH.
9. Rig up wireline truck. Pull GR-CNL log from 4800' (TD) to 2800'.
10. TIH w/ inflatable packer on 2-7/8" tubing and set packer at ~ 4725' (Use new logs to determine packer set depth. Attempt to set as high in the new open hole as possible.)
11. Acidize new open hole 4710'-4800' with 5,000 gallons 15% NEFE HCl. (Rate: 2-3 BPM & Max Pressure: 4500 psi)
12. Shut in one hour and flow back load.
13. Pump 330 gallons of SCW358 (scale inhibitor) mixed with 120 bbls of fresh water followed by 200 bbls of fresh water.
14. TOH w/ packer.
15. TIH w/ 4-3/4" bit on 2-7/8" tubing and tag TD. Clean out if necessary.
16. TOH.
17. RIH w/ 2-7/8" production tubing and set TAC.
18. ND BOP. NU wellhead.
19. RIH w/ pump and rods per ALCR.
20. Set pump @ 4700' (100' lower than previous depth).
21. Clean location. RDMO.
22. Return to production.
23. Report production test.

Contacts:

Larry Birkelbach - Remedial Engineer (432-687-7106 / Cell: 432-208-4772)
Carlos Valenzuela – ALCR (Cell: 575-390-9615)
Edgar Acero – Production Engineer (432-687-7343 / Cell: 432-230-0704)
Tim Gray – Baker Petrolite (575-910-9390)

**CURRENT
WELLBORE DIAGRAM**

Created: 8/2/2007 By: HLH
Updated: 8/2/2007 By: HLH
Lease: Central Vacuum Unit
Surface Location: 1980' FNL & 1980' FEL
Bottomhole Location:
County: Lea St: NM
Current Status: Active Oil Well
Directions to Wellsite: Buckeye, NM

Well No.: 103
Unit Ltr: G
Unit Ltr:
St Lease: B-1306
Elevation: 3978' DF

Field: Vacuum Grayburg San Andres
Sec: 6 TSHP/Range: 18S-35E
Sec: TSHP/Range:
API: 30-025-03091 Cost Center:
CHVNO: FA4243 TEPI: UCT493000
MVP: BCT494500

Surface Csg.

Size: 8-5/8"
Wt.: 28#, LW
Set @: 1515'
Sxs cmt: 300
Circ: Yes
TOC: Surface
Hole Size: 10"

KB: N/A
DF: 3978'
GL: 3961'

Original Spud Date: 10/9/1939
Original Compl Date: 11/5/1939

Production Csg.

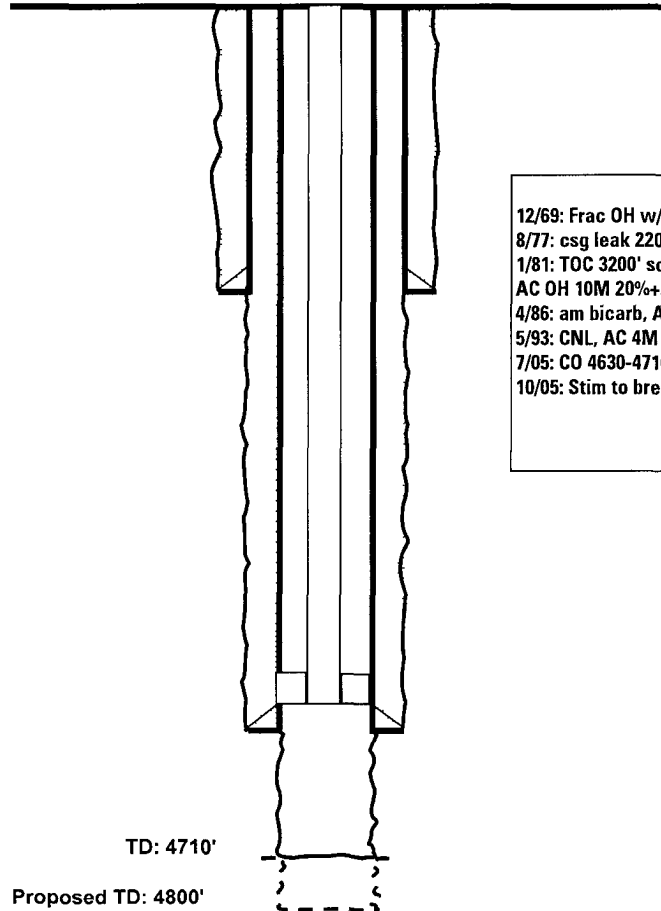
Size: 5-1/2"
Wt: 17#, SMLS
Set @: 4070'
Sxs Cmt: 200
Circ:
TOC: 400' TS
Hole Size: 6-3/4"

Well History

12/69: Frac OH w/30M gals brine+RS, 40M# sand
8/77: csg leak 2208', sq 200sx
1/81: TOC 3200' some bond @ 2000' Perf @ 1569', sq 600sx, TOC TS 400'
AC OH 10M 20%+RS
4/86: am bicarb, AC 10M 15%+RS+MB
5/93: CNL, AC 4M 20%, Frac w/75M# sand, CO, 82o 47w 30g
7/05: CO 4630-4710', sand lock resin, CO
10/05: Stim to break sand lock, CO 4694-4710' AC 4000 gals 20%

Perfs

OH 4070-4710'



Remarks: