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

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State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
June 16, 2008

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	[2] OGRID Number
CHEVRON U S A INC 15 SMITH ROAD MIDLAND, TEXAS 79705	4323
	[3] API Number 30 – 025-02242

[3] Property Code	[5] Property Name	[6] Well No
29923	CENTRAL VACUUM UNIT	92

[9] Proposed Pool 1	[10] Proposed Pool 2
VACUUM GRAYBURG SAN ANDRES	

[7] Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	17-S	34-E		660	SOUTH	660	West	LEA

[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

Additional Well Information

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
DRILL DEEPER	O		S	4001' GL
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
NO	4850'	SAN ANDRES		

[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 4850' 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
Deepen

[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
02-23-2010

Phone
432-687-7375

OIL CONSERVATION DIVISION

Approved by.

Title PETROLEUM ENGINEER

Approval Date: FEB 26 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

RECEIVED
FEB 24 2010
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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	[2] Pool Code	[3] Pool Name
30-025-02242	62180	VACUUM GRAYBURG SAN ANDRES

[4] Property Code	[5] Property Name	[6] Well Number
29923	CENTRAL VACUUM UNIT	92

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	4001' 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
M	36	17-S	34-E		660	SOUTH	660	West	LEA

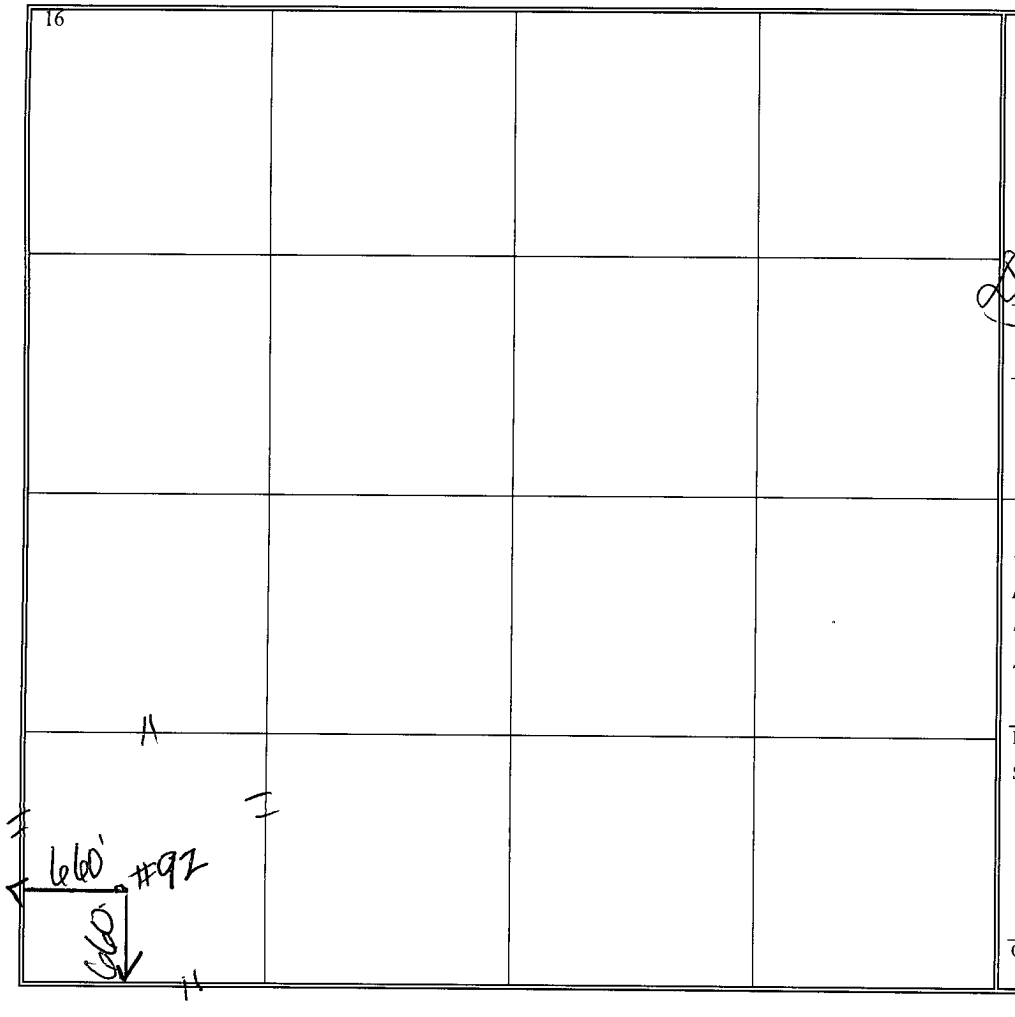
[11] Bottom Hole Location If Different From Surface

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	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

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 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

Denise Pinkerton — 02-23-2010
Signature — Date

DENISE PINKERTON REGULATORY SPECIALIST
Printed Name

[18] SURVEYOR CERTIFICATION

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 No. 92
API No. 30-025-02242
Vacuum (Grayburg-San Andres) Field
Lea County, NM

Workover Procedure

1. Rig up pulling unit. Kill well. ND wellhead. NU BOP.
2. TOH w/ 2-3/8" production tubing and ESP.
3. TIH w/ 4-3/4" mill tooth and drill collars on 2-7/8" workstring (S95, PH6). Rig up reverse unit and power swivel. Clean out to 4710' (original TD).
4. POH with bit.
5. TIH w/ 4-3/4" button bit and drill collars on 2-7/8" workstring. Deepen well to 4850'. Analyze scale samples and use xylene with acid treatment if needed.
6. Circulate hole clean and spot 500 gallons 10% Acetic acid on bottom. TOH.
7. Rig up wireline truck. Pull GR-CNL log from 4850' to 2,850'.
8. RIH w/ PEAK open hole packer (3 packers – 3 stage acid job).
9. Set top packer at ~4050', set middle packer at ~4730' or attempt to set as high in the new open hole as possible (Use the new logs to determine good packer set depth), and set the bottom packer at ~4800'.
10. Acidize as follows: (Max Pressure: 4500 PSI)

Stage	Stage Description	Fluid Description	Rate (BPM)	Volume (GAL)	Open Hole Interval (FT)
1	Acid	15% HCL	6	1500	4800 - 4850
2	Diverter	Gelled Brine Water	6	1000	
3	Acid	15% HCL	6	1500	
4	Acid	15% HCL	6	1500	4730 - 4800
5	Diverter	Gelled Brine Water	6	1000	
6	Acid	15% HCL	6	1500	
7	Acid	15% HCL	6	4000	4050 - 4730
8	Diverter	Gelled Brine Water	6	3000	
9	Acid	15% HCL	6	4000	

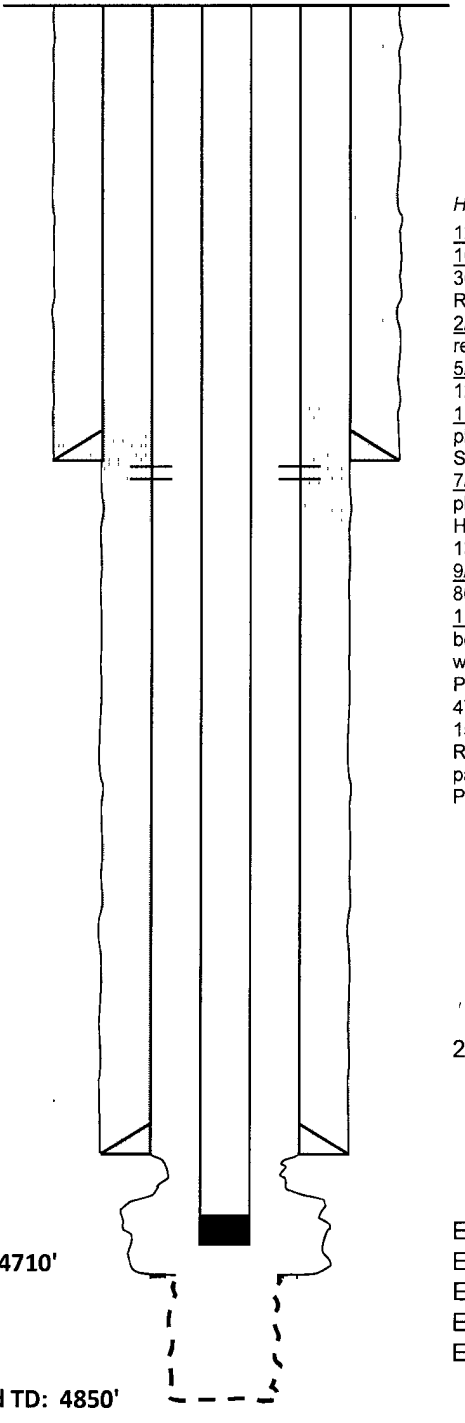
DIVERTER

Stage	Stage Description	Description	Diverter Concentration (lbm/gal)	Diverter Quantity (lbm)	Open Hole Interval (FT)
2	Diverter	Rock Salt	1	1000	4800 - 4850
5	Diverter	Rock Salt	1	1000	4730 - 4800
8	Diverter	Rock Salt	1	3000	4050 - 4730

11. Shut in one hour and swab back load.
12. Pump 300 gallons of SCW 358 (scale inhibitor) mixed with 120 bbls of fresh water followed by 200 bbls of fresh water.
13. TOH w/ packer.
14. TIH w/ 4-3/4" bit on 2-3/8" tubing and tag TD. Clean out if necessary. TOH.
15. TIH w/ ESP on 2-3/8" production tubing and set at 4100'.
16. ND BOP. NU wellhead.
17. Return to production and test.

CVU #92 Wellbore Diagram

Created:	03/29/06	By:	C. A. Irle	Well #:	**92**	St. Lse:	857943
Updated:	11/12/08	By:	PTBP	API	30-025-02242		
Updated:	02/16/10	By:	E. Acero	Unit Ltr.:	M	Section:	36
Lease:	Central Vacuum Unit			TSHP/Rng:	S-17 E-34		
Field:	Central Vacuum Unit			Unit Ltr.:		Section:	
Surf. Loc.:	660' FSL & 660' FWL			TSHP/Rng:			
Bot. Loc.:				Directions:	Buckeye, NM		
County:	Lea	St.:	NM	CHEVNO:	FA3403		
Status:	Active Oil Well						



KB:	
DF:	4,011
GL:	4,001
Ini. Spud:	08/30/38
Ini. Comp.:	10/04/38

Surface Casing

Size:	7 5/8"
Wt., Grd.:	26.4#
Depth:	1,540'
Sxs Cmt:	300
Circulate:	Yes
TOC:	Surface
Hole Size:	8 5/8"

History

12/27/71 Acid 1000 gls 15% NEA
10/29/74 Frac Tbg 3 1/2", pkr 4033, frac 30000 gls 33000# 20/40 9000# 10/20 210# RS 90# BA 87o 22w
2/13/81 Wtr Flow RBP 3906, perf 1565, cmt ret 1494, sqz 400 sx, TS, top not located
5/17/85 Stim Spot 600 gls Amm Bicarb, acid 12000 gls 15% NEFE 2400# RS 2400# MB
11/5/91 Stim Spot 630 gls 15% NEFE HCl, pkr 3412, acid 8000 gls 28% HCl 6000# RS, SIS B 61o 937w, A 76o 1495w
7/12/99 Under-ream & Stim UR 4267-4710, pkr 4015, WH leak, acid 5000 gls 15% NEFE HCl 2000# RS, SIS, fix WH, sub 4543 B 7o 1363w, A 59o 1308w 64g
9/4/02 Stim No fill, pkr 4044, acid 4000gls 80/20 DAD
11/16/07 Sub shorted downhole, Unit had been in the well 5 years, No tear down, POH w/ tubing, Looked bad with pitting, LD tubing, PU and rih w/ ws and bailer to 4698' CO to 4704', RIH w/ packer, Acidized well w/ 6K gal 15% and 6 5K RS, Swabbed back, POH and RIH to wash rs, Scale squeezed, Relesaed packer POH LD ws, PU RIH tubing and sub, POP Replaced sub and tubing

Production Casing

Size:	5 1/2"
Wt., Grd.:	17#
Depth:	4,096'
Sxs Cmt:	200
Circulate:	No
TOC:	2,200' 60%
Hole Size:	6 3/4"

2-3/8" Production Tubing

Open Hole:

Depth:	4,710'
Hole Size:	4 3/4"

Under-Ream:

Top:	4,267'
Bottom:	4,710'
Hole Size:	6 1/4"

TD: 4710'

ESP Pump @ 4490-4504
ESP Gas Separator @ 4504-4507
ESP Seal @ 4507-4513
ESP Motor @ 4513-4525
ESP Pressure Sensor @ 4525-4529

Proposed TD: 4850'