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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SEP 21 2009
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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 – 025-25703

[3] Property Code	[5] Property Name	[6] Well No
29923	CENTRAL VACUUM UNIT	40

[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	Feet from the	East/West line	County
D	36	17-S	34-E		42	NORTH	1247	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	INJECTION		STATE	4006' GL
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
NO	4850'	GRAYBURG 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 FROM 4800' TO 4850'.
PROPOSED COMPLETION IS FROM 4300-4850'.
CURRENT COMPLETION IS FROM 4392-4701'

PLEASE FIND ATTACHED, THE WELLBORE DIAGRAM AND C-144 INFO

Intended Procedure

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: 09-11-2009	Phone: 432-687-7375

OIL CONSERVATION DIVISION

Approved by:	
Title: PETROLEUM ENGINEER	
Approval Date: SEP 23 2009	Expiration Date:
Conditions of Approval Attached ☐	

NEW MEXICO OIL CONSERVATION C[illegible]

WELL L[illegible]TION AND ACREAGE DEDICATION PL

Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
Texaco Inc.	Central Vacuum Unit	40

Unit Letter	Section	Township	Range	County
D	36	T-17-S	R-34-E	Lea

Actual Footage Location of Well: 421 feet from the North line and 1247 feet from the West line Sec. 36

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
4006'	Grayburg San Andres	Vacuum Grayburg-San Andres	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

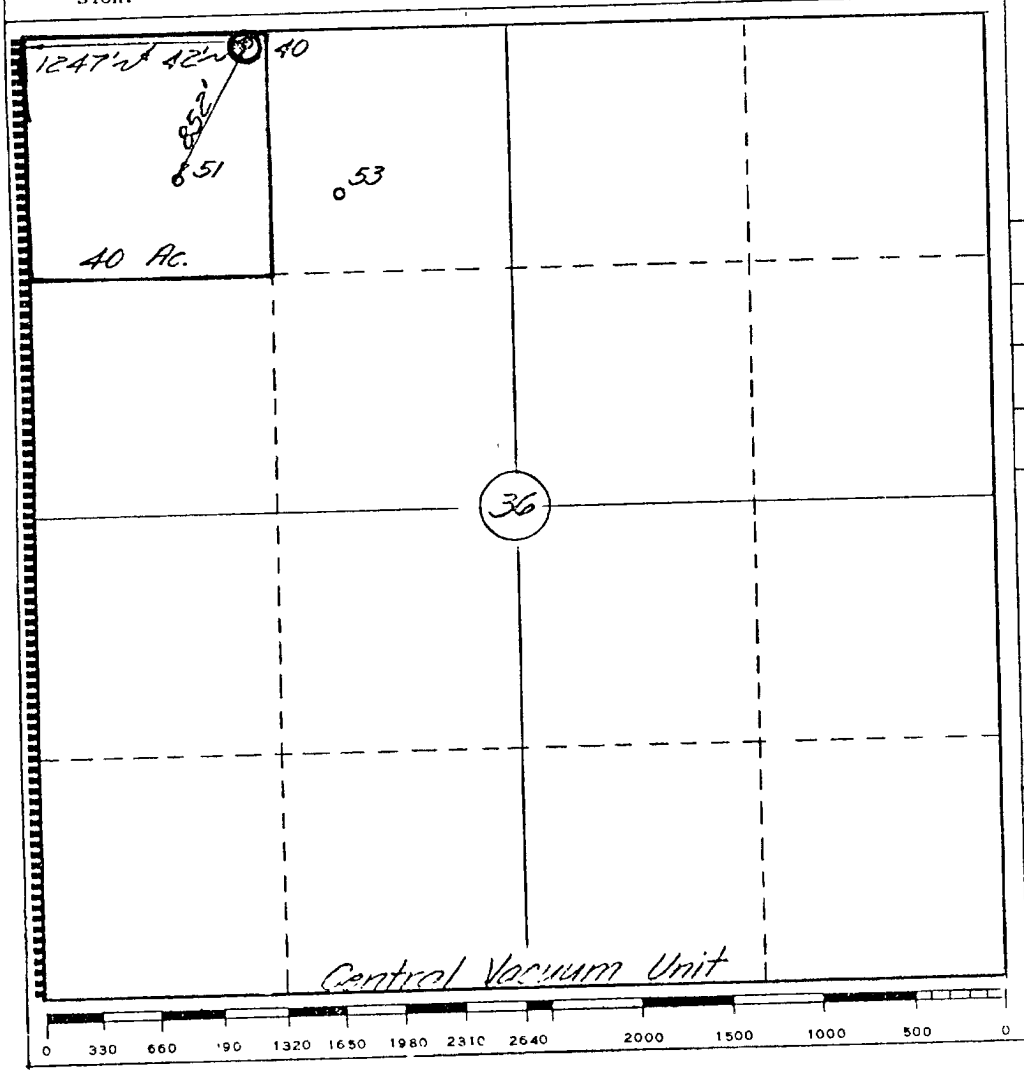
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: B. L. Eiland

Position: Division Surveyor

Company: Texaco Inc.

Date: 10-31-77

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 knowledge and belief.

Date Surveyed: 10-18-77

Registered Professional Engineer and/or Land Surveyor: B. L. Eiland

Certificate No.: 4386

CVU #40

Job: Sidetrack
API No. 30-025-25703
Central Vacuum Unit Field
Lea County, NM

Procedure:

1. MIRU wireline truck.
2. RIH w/ braided line and fishing tool to fish slickline. POOH w/ fish.
3. If fish not recovered, then consult with Remedial Engineer . (See step #10)
4. MIRU PU. Kill well as necessary.
5. Test casing to 500#.
6. ND wellhead. NU BOP.
7. Release 4-1/2" Arrow Set pkr set @4,306'.
8. POOH w/ 2-3/8" tbg and pkr.
9. Redress pkr with 80/70/80 durometer packing element before TIH as shown in item 30.
10. If fish not recovered in step 1, consult with Remedial Engineer. GIH w/ wireline grab or slickline and cut lip guide w/ 1-1/4" grapple. Recover weight bar. (Note: If fish is below planned whipstock placement, then leave fish in hole – Verfiy with Remedial Engineer)
11. TIH w/ 4 ½" cement retainer on 2-3/8" workstring. Set cement retainer @ 4,310'.
12. MIRU Halliburton and cement squeeze perfs per Halliburton's recommendation.
13. RDMO Halliburton.
14. Sting out 2-3/8" workstring from cement retainer, reverse circulate, and POOH.
15. RDMO Halliburton.
16. TIH w/ Smith Trackmaster whipstock bottomhole assembly.
17. Set whipstock above cement retainer located @ 4,310'. Orient whipstock due south if possible.
18. Mill out 4-1/2" casing window.
19. Circulate hole clean.
20. POOH with mill.
21. RIH w/ 3-7/8" button bit and drill collars on 2-3/8" workstring.
22. Drill to 4,850'. Borehole to run parallel to original hole.
23. Circulate hole clean. TOH.
24. Run GR-CNL-CCL Log. Log from 3,000' to TD.
25. TIH w/ 4-1/2" Arrow Set pkr on 2-3/8" workstring.
26. Set pkr @ 4,250'.
27. MIRU CT Unit.
28. RIH w/ 1 ¼" CT.

29. Acidize w/ 12,500 gallons 15% NEFE HCL as per Halliburton's recommendation as follows:

Volume (gallons)	Interval
5900	4850' – 4735'
2900	4701' – 4644'
500	4594' – 4604'
2200	4490' – 4446'
1000	4420' – 4400'

30. POOH w/ 1 ¼" CT.
31. RDMO CT Unit.
32. TOH w/ 4-1/2" Arrow Set pkr and 2-3/8" workstring.
33. TIH w/ 4-1/2" Arrow Set pkr w/ 1.43F profile nipple on bottom and 2-3/8" Fiberline J55 tbg. Set pkr @ 4,250'.
34. Preliminary MIT. Pressure test to 500# for 30 min.
35. ND BOP. NU wellhead
36. Perform MIT. Record on Chart.
37. RDMO PU.
38. Return well to water injection for 2 weeks, then switch to CO_2 injection.

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)
Ken LaFortune – Halliburton (432-238-3842)

Wellbore Diagram

CVU 40

Created:	03/02/06	By:	C. A. Irle	Well #:	40	St. Lse:	B-1565
Updated:	07/30/07	By:	HLH	API	30-025-25703		
Updated.	12/04/07	By:	NC				
Updated:	09/03/08	By:	PTBP				
Updated:	08/27/09	By:	EADX				
Lease:	Central Vacuum Unit			Unit Ltr.:	D	Section:	36
Field:	Central Vacuum Unit			TSHP/Rng:	S-17 E-34		
Surf. Loc :	42' FNL & 1,247' FWL			Unit Ltr.:		Section:	
Bot. Loc.:				TSHP/Rng:			
County:	Lea	St.:	NM	Directions:	Buckeye, NM		
Status:	Active Injection Well						

Surface Casing

Size:	8 5/8
Wt., Grd.:	24#
Depth:	368
Sxs Cmt:	375, Class C w/2%
Circulate:	No
TOC:	Surface
Hole Size:	12 1/4

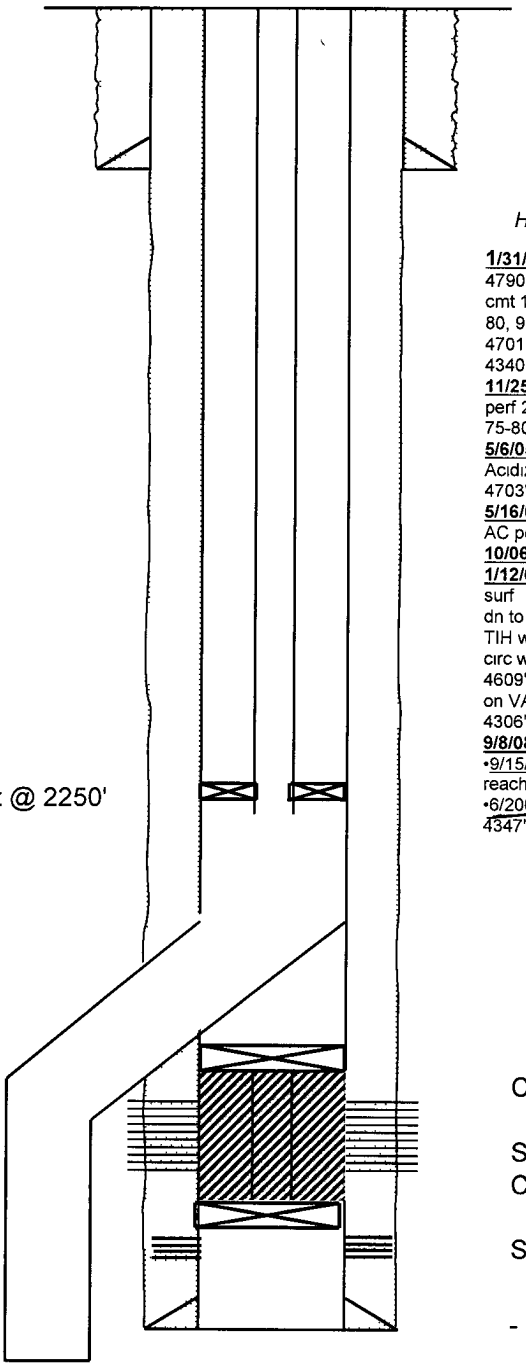
Production Casing

Size:	4 1/2
Wt., Grd.:	10.5#, K55
Depth:	4,800'
Sxs Cmt:	2000
Circulate:	Yes
TOC:	Surface
Hole Size:	7 7/8

Tubing: 2 3/8" FL J-55

Arrow Set Pkr w/o on-off tool set @ 2250'

Tight Csg below 4609'



PBTD: 4713'

TD: 4,850' TD: 4800'

KB:	4016'
DF:	4015'
GL:	4006'
Ini. Spud:	11/11/77
Ini. Comp.:	01/31/78

History

1/31/78 Ini Comp Perf 4735, 45, 79, 81, RBP 4790, pkr 4755, acid 500 gls 15% NE, CIBP 4725, cmt 12', PBTD 4713, perf 4400, 10, 20, 46, 54, 69, 80, 90, 4555, 94, 4604, 44, 53, 62, 73, 81, 92, 4701, straddle pkrs, acid 5400 gls 15% NE, pkr 4340

11/25/98 Perf & Stim Fish pkr, mill pkr, CO 4713, perf 2 spf 4392-4402, 4410-20, 58-63, 4652-67, 75-80, 86-95, acid 10000 gls 15% HCl + RS, Vac

5/6/05 Coiled Tubing w/ sonic hammer Job Acidize with 16 bbls, Run coiled tubing down to 4703'

5/16/05 going below 4550 behind pipe (tag 4675') AC perfs 4735-79' w/500 gals 15%

10/06 Prepare for CO2 injection

1/12/07 TIH w/tbg & tag @ 4604' Log fr 4335-surf Bad csg @ 4320' TIH w/tbg to 4604' Work dn to 4608' TIH w/tbg to 4608 Drill dn to 4609' TIH w/tbg, BHA to 4597 Tag up 11' high STARTA circ w/103 BW C/O Fell thru to 4608' Drill dn to 4609' Stimulate well w/5000 gals 15% HCL Well on VAC RIH w/ injection tubing and set pkr @ 4306' Pressure csg to 500# Held 30 min

9/8/08 Tag @ 4392'

•9/15/2008 - RIH w/ coiled tubing unit Max depth reached is 4369'

•6/2009 - Rig up for TD check Left tools in hole @ 4347' as well as 4347' of slickline

Cement Retainer set @ 4310'

San Andres Perfs: 4392' - 4701'
CIBP @ 4725' w/ cmt to 4310'

San Andres Perfs: 4735' 4781'

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