



October 24, 1994

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attention: Ben Stone

Re: Application for Expansion of Waterflood
Order R-5530
Central Vacuum Unit, Vacuum Grayburg San Andres
Texaco Exploration and Production Inc.
T-17/18-S, R-34/35-E, Lea County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. respectfully requests administrative approval for the expansion of the waterflood on the Central Vacuum Unit. As part of the 10 acre infill program, one temporarily abandoned well will be converted to water injection. This work will help recover additional secondary reserves that would otherwise be left in place. Administrative approval is requested so that the necessary work can be commenced as soon as possible. If there are any questions, please contact Robert McNaughton at 505- 397-0428.

Yours very truly,

Terry L. Frazier
Hobbs Area Manager

TLF/rtm

attachment

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☒ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Texaco Exploration & Production Inc.
Address: P.O. Box 730, Hobbs, New Mexico, 88240
Contact party: Robert McNaughton Phone: 505-397-0428
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ yes ☐ no
If yes, give the Division order number authorizing the project R-5530, September 20, 1977
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: TERRY L. FRAZIER

Title: 10/24/94 OPERATING UNIT MGR

Signature: [Signature]

Date: 10/24/94

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. R-5530, September 20, 1977, Commission Hearing

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

October 21, 1994

NEW MEXICO OIL CONSERVATION DIVISION - Form C-108

Application for Water Flood Expansion

Unit Name: Central Vacuum Unit- Lea County, New Mexico

Conversion Well Number and Location:

223 - Unit Letter K, 1821 FSL & 1330 FWL, Section 25, T-17S, R-34E

- III. All pertinent well data is included on the schematic sheets.
- IV. Data for sections VI, VIII, X and XI has been previously submitted under NMOCD Order R-5530 dated September 20, 1977.
- V. A lease map of wells within a 2 mile radius is attached. A 1/2 mile radius circle is drawn around the subject well, which constitutes the area of review. A second detail map shows all Grayburg/ San Andres wells and the locations of all P&A wells in the area of review (AOR). With the permission of the NMOCD, the Bridges State No. 11 will remain a Salado monitor well for the near future. Pressures will be monitored monthly and submitted each Quarter with the Vacuum Waterflow Technical Committee report.
- VI. This part of the Vacuum field was also covered by AORs for two other waterflood projects. NMOCD Order R-4412, dated October 10, 1972, authorized the North Vacuum Abo Unit which is operated by Mobil Oil Corp. NMOCD Order R-9714, dated September 3, 1992, authorized the Vacuum Glorieta West Unit which is operated by Texaco E&P Inc.
- An attached map shows the locations of the recently drilled Glorieta injection wells. A schematic showing typical construction is included. On all 13 wells in the AOR, cement was circulated on both casing strings.
- VII. Proposed average daily injection rate per well is 1000 Bbls per day and anticipated maximum rate is 1500 Bbls per day. Maximum pressure will not exceed 1450 psi system working pressure. The initial injection pressure will be limited to about 860 psi (.2 psi/ft). Step rate tests will be run to establish higher limits with the authorization of the NMOCD. The system will be closed.
- IX. The subject well will be stimulated in stages with 5000 gallons 15% NEFE and surfactants as needed. Rock salt blocks and ball sealers will be used for diversion.

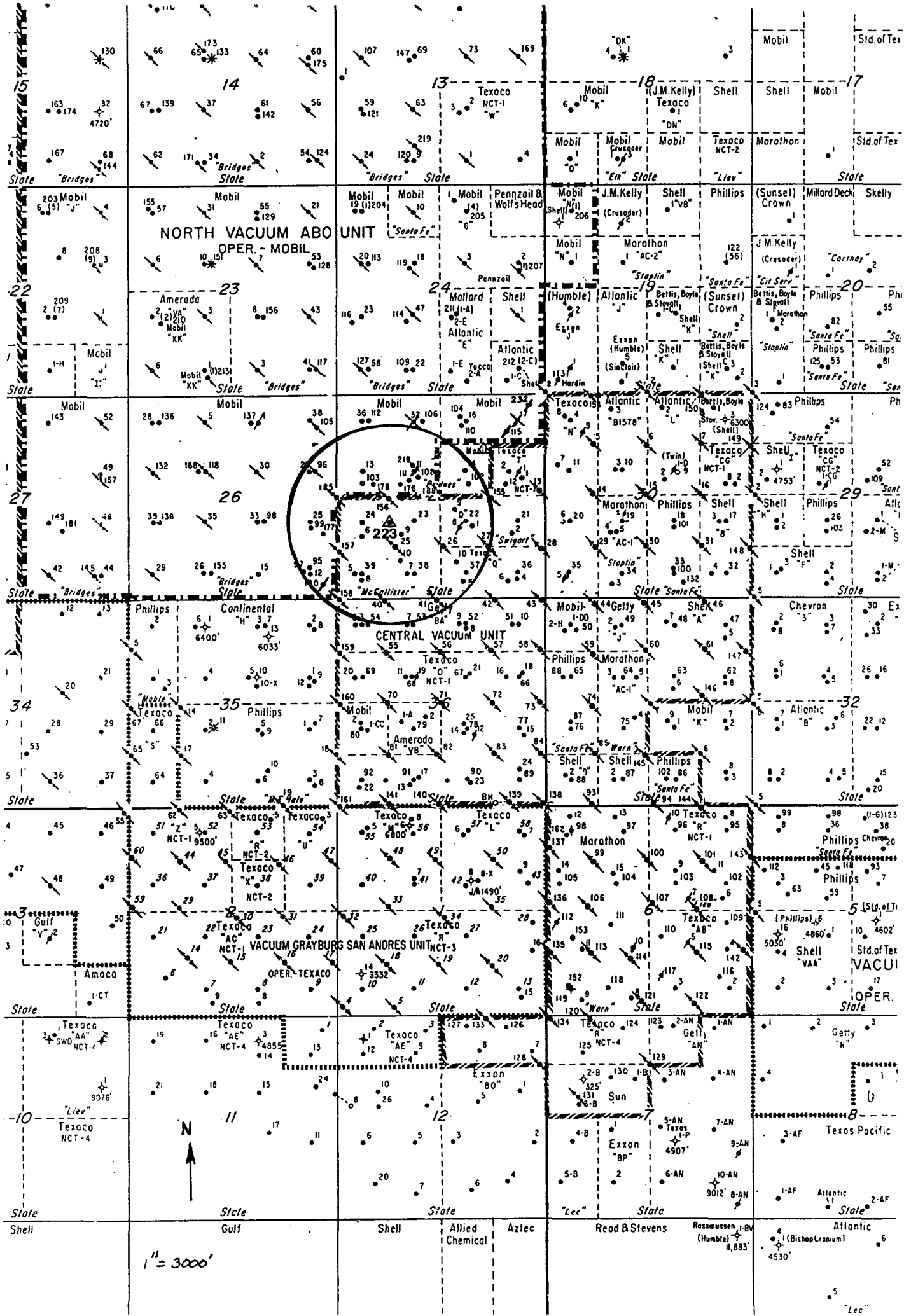
NEW MEXICO OIL CONSERVATION DIVISION - Form C-108

Central Vacuum Unit-

Vacuum Grayburg San Andres

XII. Based on current geological and engineering data, there is no evidence of natural or artificially induced open faults within the unitized interval or above. There is no known communication between the injection zone and any subsurface source of drinking water.

XIII.A Copy of the Legal Notice is attached.



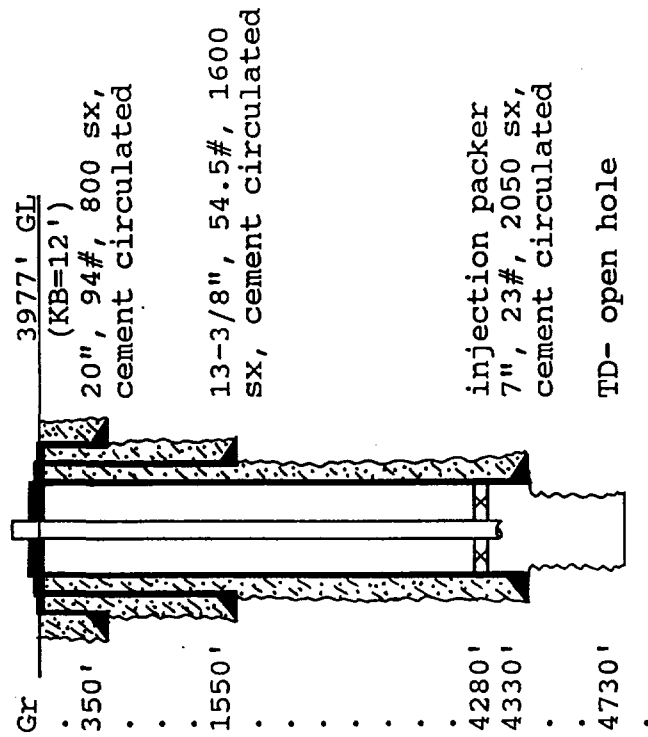
1" = 3000'

"Lee"

PROPOSED CONVERSION TO WATER INJECTION

OPERATOR: Texaco Exploration & Production Inc WELL: Central Vacuum Unit #223
 FOOTAGE LOCATION: 1821 FSL, 1330 FWL Sec./Twn/Rng: Unit K, Sec 25, T-17-S, R-34E
 TA'd on 2-17-92, CIBP @ 4275' Lea County, New Mexico

SCHEMATIC



TABULAR DATA

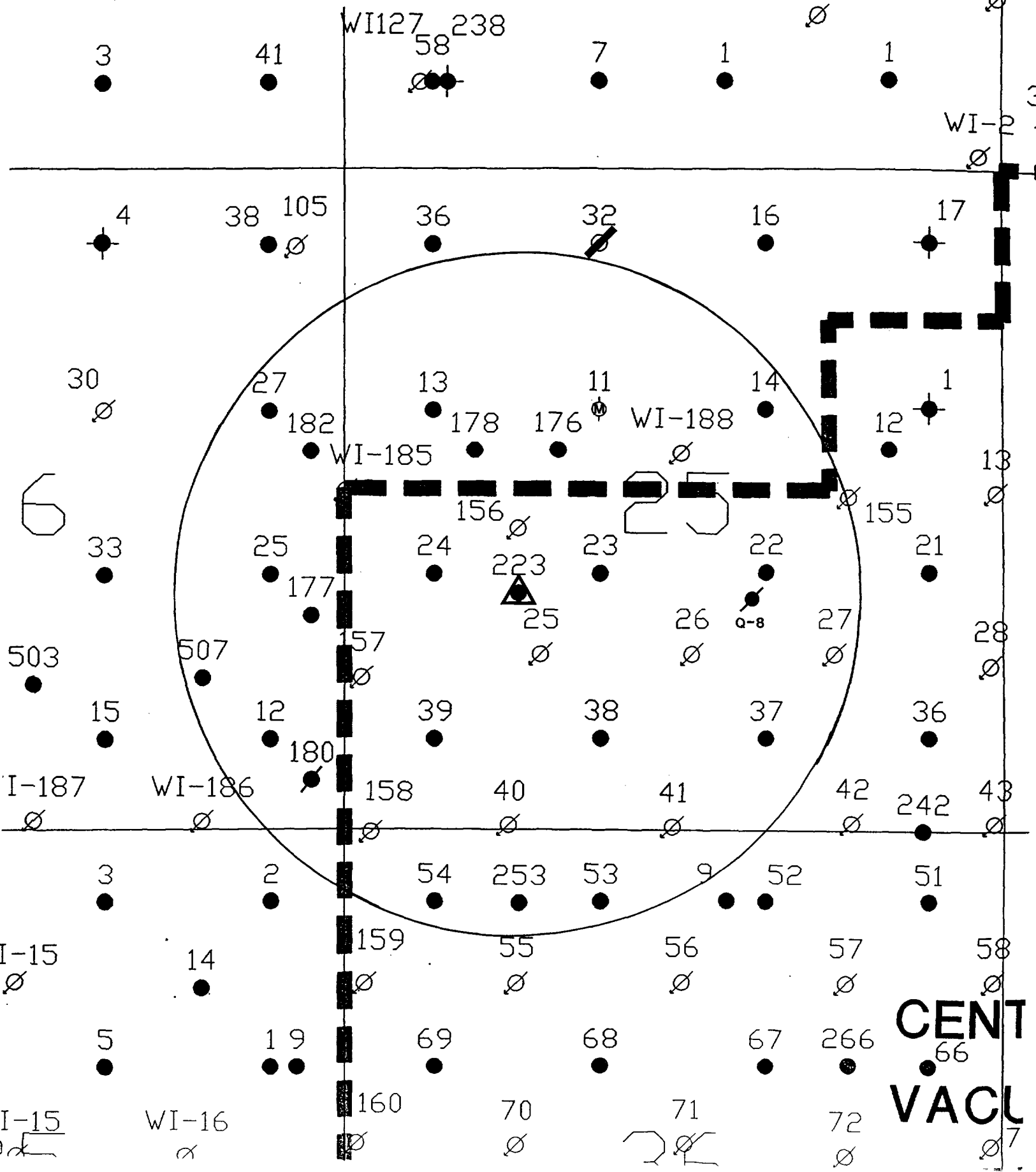
<u>Surface Casing:</u>	<u>Set at:</u>	<u>350'</u>
Size <u>20"</u> , <u>94#</u>	Cemented with <u>800 sx</u> .	
TOC <u>surface</u>	determined by <u>circulated</u>	
Hole Size <u>24"</u>	Comp. Date <u>3-10-88</u>	
<u>Intermediate Casing:</u>	<u>Set at:</u>	<u>1550'</u>
Size <u>13-3/8"</u> , <u>54.5#</u>	Cemented with <u>1600 sx</u> .	
TOC <u>surface</u>	determined by <u>circulated</u>	
Hole Size <u>17-1/2"</u>		
<u>Production Casing:</u>	<u>Set at:</u>	<u>4330'</u>
Size <u>7"</u> , <u>23#</u>	Cemented with <u>2050 sx</u> .	
TOC <u>surface</u>	determined by <u>circulated</u>	
Hole Size <u>12-1/4"</u> , reduced to <u>8-3/4"</u> @ <u>2800'</u>		
<u>Producing Interval:</u>		
<u>4330'</u> to <u>4730'</u> through: open hole		
Hole Size <u>6-1/4"</u>		

TOPS:
 Salt 1660'-2830'
 Queen 3736'
 Grayburg 4102'
 San Andres 4373'

VACUUM GRAYBURG/ SAN ANDRES

COMPLETIONS

24 2



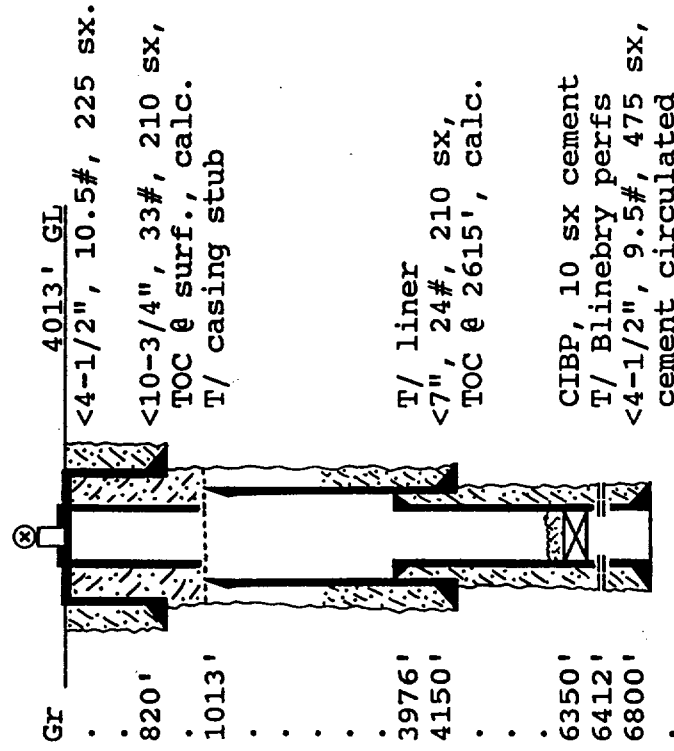
WELL DATA SHEET

OPERATOR: Texaco Exploration & Production Inc WELL: Mobil Bridges State #11

FOOTAGE LOCATION: 330 FNL, 990 FEL Sec./Twn/Rng: Unit A, Sec 30, T-17-S, R-35E

P&A 1/75, reentered and converted to CVU monitor well, 7/78 Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at: 820'
 Size 10-3/4", 32.75# Cemented with 210 sx.
 TOC surface ' determined by calculated
 Hole Size 12-1/4" Comp. Date 2-10-63
Intermediate Casing: Set at: 4150'
 Size 7", 24# Cemented with 210 sx.
 TOC 2615' determined by calculated
 Hole Size 8-3/4"
Production Liner: Set at: 6800'
 Size 4-1/2", 9.5# Cemented with 475 sx.
 TOC T/liner ' determined by circulated
 Hole Size 6-1/4"

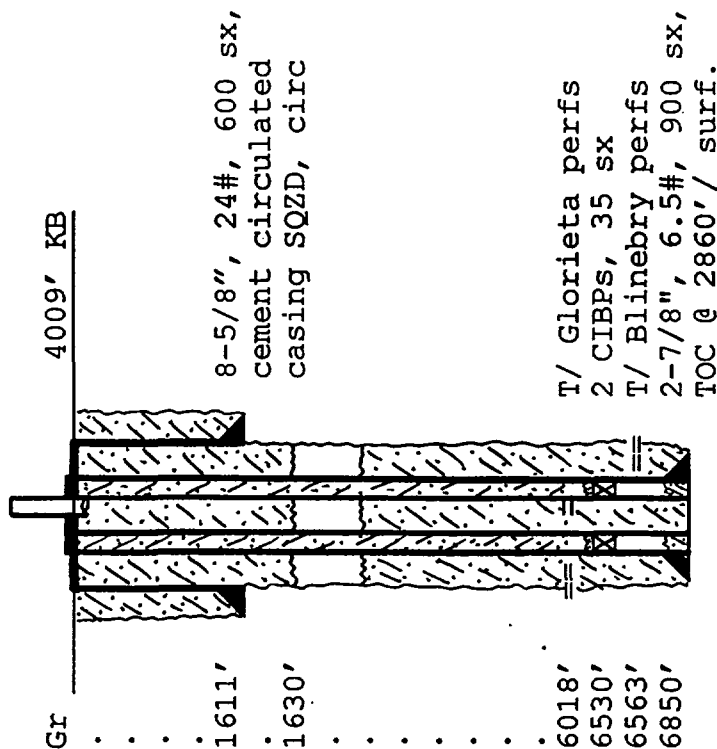
TOPS: (estimated from offset logs)

Salt	1690'	-2680'
San Andres	4445	
Glorieta	5995'	
Blinebry	6350'	

6412' to 6563' through: perfs
4-1/2" tie-back liner @ surface run 7/78

P&A 10/26/93; pumped 435 sx down both strings

TABULAR DATA



Salt	1665'-2720'
Queen	3710'
San Andres	4355'
Glorieta	5878'
Blinebry	6570'

Production Intervals:

6018 ' to 6050 ': Vacuum Glorieta

6563 ' to 6759 ' : Vacuum Blinebry

BRIDGES STATE
WELL # 32 WIW
VACUUM GRAYBURG (SAN ANDRES) FIELD
LEA COUNTY, NEW MEXICO
PROPOSED COMPLETION

C, 25, T 17-S, R 34-E, 660' FNL, 1980' FWL

KB = 4013'
GL = 4002'

10-3/4" 35.75# L.W. CSG @ 815'
CMT'D W/ 257 SX CIRC.

15 SX CLASS C NEAT CMT PLUG
FROM SURFACE-30'

70 sx 920'-765'

70 SX CLASS C NEAT CMT PLUG FROM +900-765' ACROSS
7" CSG STUB @ +850 & 10-3/4" CSG SHOE @ 815'
PLUG MUST BE TAGGED!

50 SX CLASS C NEAT CMT PLUG FROM 1770-1670'
PERFED & SQZ'D ACROSS SALT TOP @ 1720'
PLUG MUST BE TAGGED!

40 SX CLASS C NEAT CMT PLUG FROM 2895-2685'
ACROSS SALT BASE @ 2845' AND TOC @ 2735'

TOC @ 2735' (CALCULATED)

TOL @ 4045'

TOC @ 4065' (TS)

7" 24# SL CSG @ 4210'
CMT'D W/ 217 SX

CIBP @ 4445'

CIBP @ 4450' W/ 40 SX CLASS C NEAT CMT CAP FROM
4500-3995' ACROSS 7" CSG SHOE @ 4210' & 4-1/2" TOL @ 4045'

5580'

SAN ANDRES PERFS 4481-4843'

GLORIETA PERFS 5975-6000' (SQZ'D W/ 100 SX)

6580'
6600'

4-1/2" BAKER CIBP @ 6600' W/ 20' CMT CAP

BLINEBRY PERFS 6663-6712'

4-1/2" 9.5# J-55 LINER 4045-6800' CMT'D W/ 400 SX

PBTD=5580'
TD=6800'

BS32P.PRE
ALS 09/27/93

BRIDGES STATE

WELL # 180

VACUUM GRAYBURG (SAN ANDRES) FIELD

LEA COUNTY, NEW MEXICO

PROPOSED COMPLETION

P, 26, 17-S, 34-E, 330' FSL, 330' FEL

GL = 4003'

30' CLASS C NEAT CMT PLUG
FROM 30'-SURFACE

50 sx from 417' - 100'

7" 36# 8RD ST&C CSG @ 367'
CMT'D W / 400 SX CIRC.

100' CLASS C NEAT CMT PLUG ACROSS CSG SHOE @ 367'
FROM 417-317

100' CLASS C NEAT CMT PLUG ACROSS SALT TOP (1707')
FROM 1757-1657

25 sx

100' CLASS C NEAT CMT PLUG ACROSS YATES TOP (2850')
FROM 2900-2800

25 sx

CIBP @ 4260' w/ 25 sx

CIBP @ 4262' W/ 35' CLASS C NEAT CMT CAP

SAN ANDRES PERFS 4292-4362'

SAN ANDRES PERFS 4428-4736'

7" 24# 10V CSG @ 4850'
CMT'D W / 1600 SX CIRC.

TD=4850'

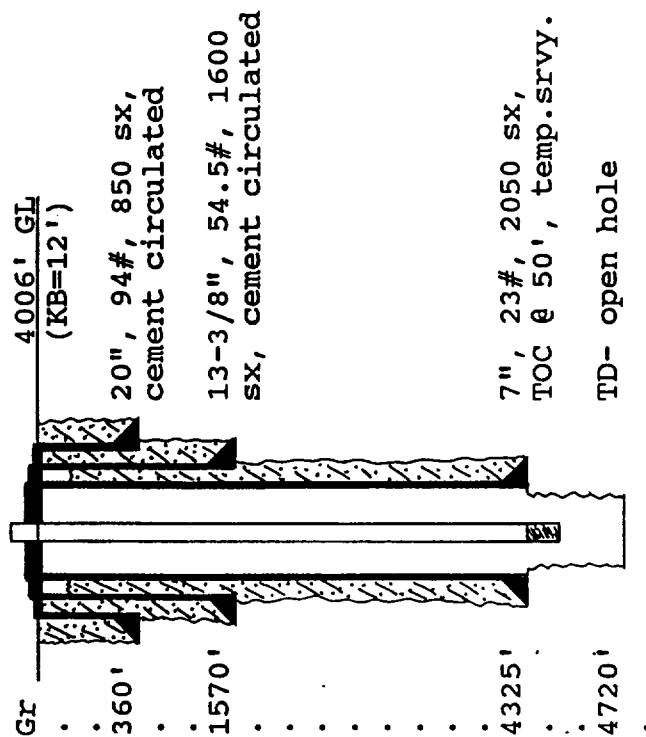
BS180P.PRE

ALS 05/27/93

WELL DATA SHEET

OPERATOR: Texaco Exploration & Production Inc WELL: Central Vacuum Unit #253
 FOOTAGE LOCATION: 675 FNL, 1330 FWL Sec./Twn/Rng: Unit C, Sec 36, T-17-S, R-34-E
Lea County, New Mexico

SCHEMATIC



TABULAR DATA

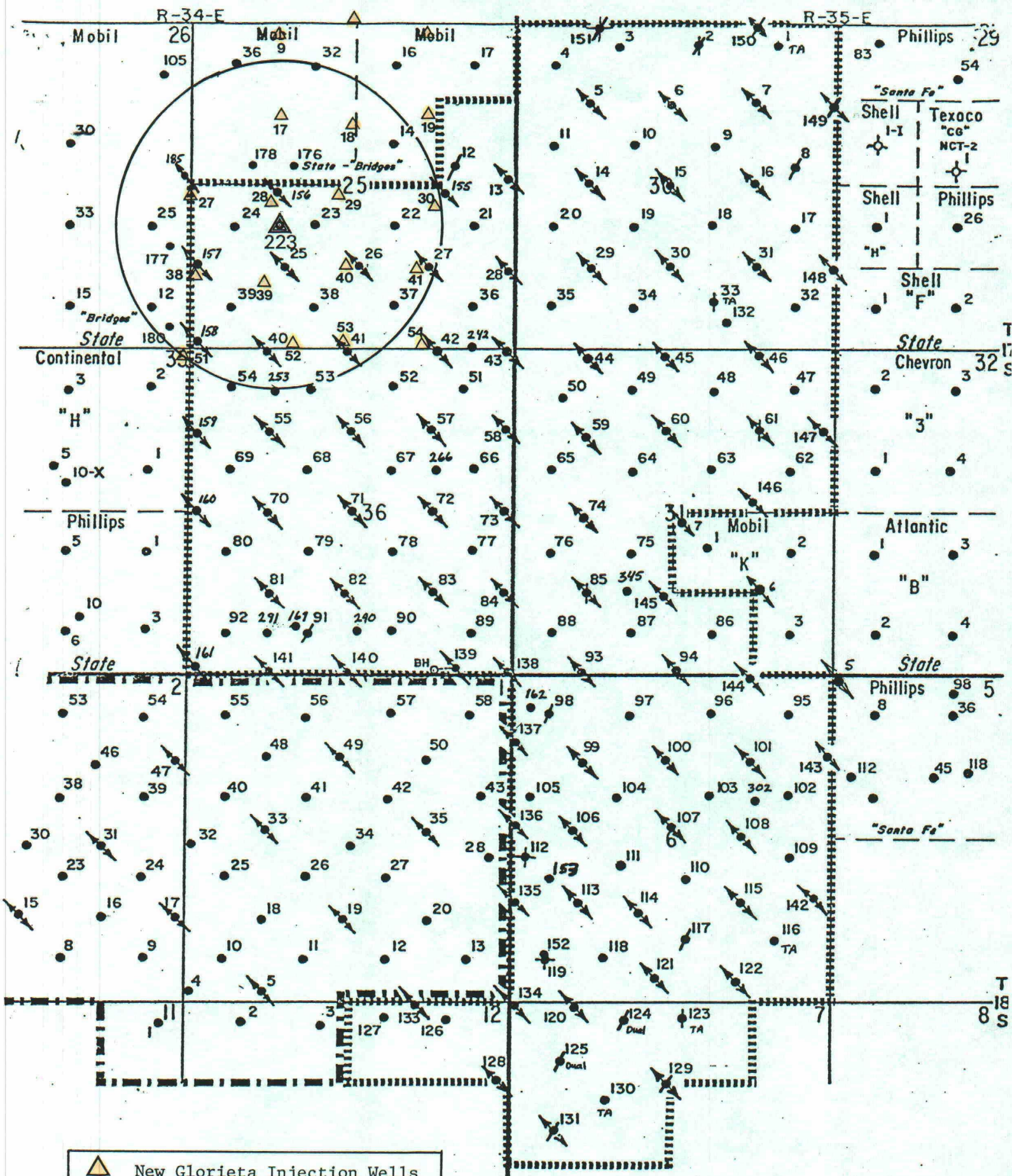
Surface Casing: Set at: 360'
 Size 20", 94# Cemented with 850 sx.
 TOC surface ' determined by circulated
 Hole Size 24" Comp. Date 3-04-88
Intermediate Casing: Set at: 1570'
 Size 13-3/8", 54.5# Cemented with 1600 sx.
 TOC surface determined by circulated
 Hole Size 17-1/2"
Production Casing: Set at: 4325'
 Size 7", 23# Cemented with 2050 sx.
 TOC 50' determined by temp. srv.
 Hole Size 6-1/8"


Producing Interval:



4325' to 4720' through: open hole

TOPS: (estimated)

Salt 1650'-2650'
 Queen 3683'
 Grayburg 4003'
 San Andres 4334'



 New Glorieta Injection Wells

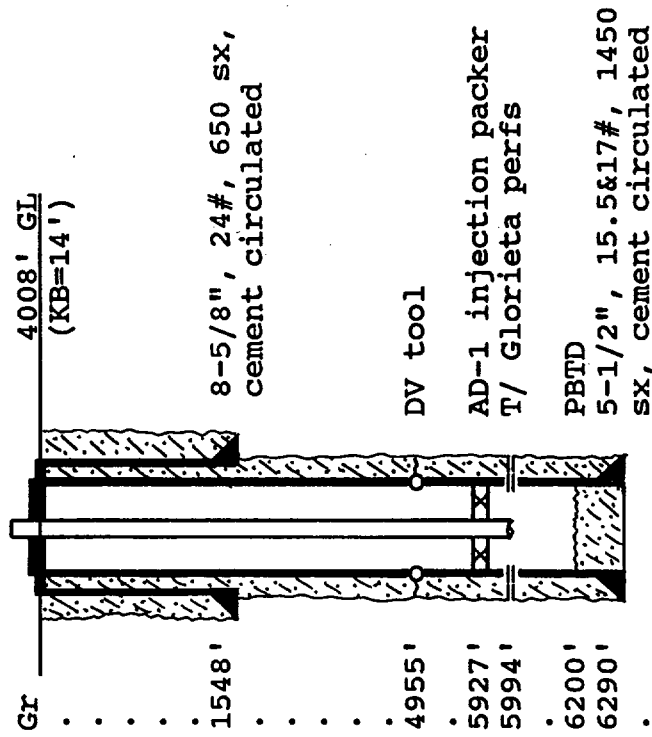
- PRODUCING WELL
-  INJECTION WELL
- ◉ SHUT-IN WELL
-  P+A well

TEXACO Inc.
 CENTRAL VACUUM UNIT
 VACUUM G-SA FIELD
 LEA COUNTY, NEW MEXICO

TYPICAL VACUUM GLORIETA WEST UNIT WATER INJECTION WELL

OPERATOR: Texaco Exploration & Production Inc WELL: Vacuum Glorieta West Unit No. 17
 FOOTAGE LOCATION: 1228 FNL, 1399 FWL Sec./Twn/Rng: Unit C, Sec 25, T-17-S, R-34-E
Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at: 1548'
 Size 8-5/8", 24# Cemented with 650 sx.
 TOC surface determined by circulated
 Hole Size 11" Comp. Date 12-29-92
Intermediate Casing: Set at:
 Size Cemented with sx.
 TOC determined by
 Hole Size
Production Casing: Set at: 6290'
 Size 5-1/2", 15.5&17# Cemented with 1450 sx.
 TOC surface determined by circulated
 Hole Size 7-7/8", DV Tool @ 4955'
Injecting Interval:
5994' to 6084' through: 160 perfs
AD-1 injection packer set at 5927'

TOPS:
 Salt 1690'-2705'
 San Andres 4585'
 Glorieta 5875'
 Paddock 6000'

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL FILE

WELL API NO.

30-025-31781

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B-1520-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☐

GAS WELL ☐

DRY ☐

OTHER WATER INJECTION

1b. Type of Completion:

NEW
WELL ☒

WORK
OVER ☐

DEBRIS ☐

PLUG
BACK ☐

DEEP
RESER ☐

OTHER ☐

2. Name of Operator

✓ TEXACO EXPLORATION AND PRODUCTION INC.

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

8. Well No.

17

9. Pool name or Wildcat

VACUUM GLORIETA

4. Well Location

Unit Letter C : 1228 Feet From The NORTH Line and 1399 Feet From The WEST Line

Section 25 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded

12-08-92

11. Date T.D. Reached

12-16-92

12. Date Compl. (Ready to Prod.)

12-29-92

13. Elevations (DF& RKB, RT, GR, etc.)

GR-4008', KB-4022'

14. Elev. Casinghead

4008'

15. Total Depth

6290'

16. Plug Back T.D.

6200'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

0-6290'

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name.

5994' - 6084': GLORIETA

20. Was Directional Survey Made

YES

21. Type Electric and Other Logs Run

GR-DLL-MSFL, GR-DSN-SDL, GR-CCL

22. Was Well Cored

NO

23.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1548'	11	650 SX, CIRC 130 SX	
5 1/2	15.5# & 17#	6290'	7 7/8	1450 SX, TOC @ 500'	
				DV TOOL @ 4955'	

24.

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	5927'	5927'

25. TUBING RECORD

26. Perforation record (interval, size, and number)

5994' - 6084' 2 JSPF: 160 HOLES

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL USED

5994-6084

ACID - 5000 GAL 15% HCL

28.

PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
						SHUT-IN	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. List Attachments

DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C. P. Basham / cwh

Printed

Name C. P. BASHAM

Title DRLG. OPER. MGR. Date 12-31-92

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL FILE

WELL AP NO.

30-025-31782

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
B-1520-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER WATER INJECTION

b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DRY RESER. ☐ OTHER ☐

2. Name of Operator
TEXACO EXPLORATION AND PRODUCTION INC.

7. Lease Name or Unit Agreement Name
VACUUM GLORIETA WEST UNIT

3. Address of Operator
P. O. Box 3109, Midland, Texas 79702

8. Well No.
18

9. Pool name or Wildcat
VACUUM GLORIETA

4. Well Location

Unit Letter F : 1651 Feet From The NORTH Line and 2543 Feet From The WEST Line

Section 25 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded
11-29-92

11. Date T.D. Reached
12-06-92

12. Date Compl. (Ready to Prod.)
12-16-92

13. Elevations (DF & RKB, RT, GR, etc.)
GR-4000', KB-4014'

14. Elev. Casinghead
4000'

15. Total Depth
6306'

16. Plug Back T.D.
6223'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By Rotary Tools
0-6306'

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name
6020' - 6070': GLORIETA

20. Was Directional Survey Made
YES

21. Type Electric and Other Logs Run
GR-DLL-MSFL, GR-DSN-SDL, GR-CCL

22. Was Well Cored
NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1550'	11	650 SX, CIRC 119 SX	
5 1/2	15.5# & 17#	6306'	7 7/8	1650 SX, CIRC 420 SX	
				DV TOOL @ 4986'	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	5964'	5964'

26. Perforation record (interval, size, and number)
6020' - 6070' 2 JSPF: 100 HOLES

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6020-6070	ACID - 3800 GAL 15% HCL

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Producing or Shut-in) SHUT-IN	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By
MIKE ELMORE

30. List Attachments

DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C. P. Basham / cwh

Printed Name C. P. BASHAM

Title DRLG. OPER. MGR. Date 12-22-92

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL FILE Form C-105
Revised 1-1-89

WELL API NO. 30-025-31869
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-1520-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER WATER INJECTION	7. Lease Name or Unit Agreement Name VACUUM GLORIETA WEST UNIT
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DEEP REPER <input type="checkbox"/> OTHER	
2. Name of Operator TEXACO EXPLORATION AND PRODUCTION INC.	8. Well No. 27
3. Address of Operator P. O. Box 3109, Midland, Texas 79702	9. Pool name or Wildcat VACUUM GLORIETA

4. Well Location Unit Letter <u>I</u> : <u>2359</u> Feet From The <u>SOUTH</u> Line and <u>64</u> Feet From The <u>EAST</u> Line Section <u>26</u> Township <u>17-SOUTH</u> Range <u>34-EAST</u> NMPM LEA County
--

10. Date Spudded 05-12-93	11. Date T.D. Reached 05-20-93	12. Date Compl. (Ready to Prod.) 06-24-93	13. Elevations (DFA, RKS, RT, GR, etc.) GR-4012', KB-4026'	14. Elev. Casinghead 4012'
15. Total Depth 6370'	16. Plug Back T.D. 6300'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools 0 - 6370'	Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name 5975' - 6123'; GLORIETA	20. Was Directional Survey Made YES
--	--

21. Type Electric and Other Logs Run GR-DLL-MSFL, GR-DSN-SDL-CAL	22. Was Well Cored NO
---	--------------------------

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1580'	11	CL-C 650 SX, CIRC. 58 SXS	
5 1/2	15.5# & 17#	6370'	7 7/8	CL-H 1470 SX, TOC @ 1700	
				BY T.S., TOP OUT W/ 200	
				SX CL-H	

24. LINER RECORD	25. TUBING RECORD
SIZE TOP BOTTOM SACKS CEMENT SCREEN	SIZE DEPTH SET PACKER SET
	2 3/8 5908' 5908'

26. Perforation record (interval, size, and number) 5975-6006, 6115-6123; 2 JSPF, 78 HOLES.	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 5975' - 6123' ACID - 1800 GAL, 15% HCL
--	---

28. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)					
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By HARVEY STEPHENS
--	--------------------------------------

30. List Attachments DEVIATION SURVEY
--

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief			
Signature <u>C. P. Basham</u>	Printed Name <u>C. P. BASHAM</u>	Title <u>DRLG. OPER. MGR.</u>	Date <u>06-29-93</u>

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL FILE

Form C-105
Revised 1-1-89

WELL API NO. 30-025-31785
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-2706

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER WATER INJECTION	7. Lease Name or Unit Agreement Name VACUUM GLORIETA WEST UNIT
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DRY RESER <input type="checkbox"/> OTHER	
2. Name of Operator TEXACO EXPLORATION AND PRODUCTION INC.	8. Well No. 29
3. Address of Operator P. O. Box 3109, Midland, Texas 79702	9. Pool name or Wildcat VACUUM GLORIETA

4. Well Location Unit Letter <u>K</u> : <u>2522</u> Feet From The <u>SOUTH</u> Line and <u>2283</u> Feet From The <u>WEST</u> Line Section <u>25</u> Township <u>17-SOUTH</u> Range <u>34-EAST</u> NMPM LEA County
--

10. Date Spudded 11-30-92	11. Date T.D. Reached 12-07-92	12. Date Compl. (Ready to Prod.) 12-22-92	13. Elevations (DFA RKB, RT, GR, etc.) GR-4001', KB-4015'	14. Elev. Casinghead 4001'
15. Total Depth 6300'	16. Plug Back T.D. 6200'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools 0-6300'	Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 5968' - 6068': GLORIETA				20. Was Directional Survey Made YES
21. Type Electric and Other Logs Run GR-DLL-MSFL, GR-DSN-SDL, GR-CCL				22. Was Well Cored NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1550'	11	650 SX, CIRC 65 SX	
5 1/2	15.5# & 17#	6300'	7 7/8	1850 SX, CIRC 188 SX	
				DV TOOL @ 5029'	

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	5928'	5928'

26. Perforation record (interval, size, and number) 5968' - 5974', 6010' - 6068'. 2 JSPF: 128 HOLES	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 5968-6068 AMOUNT AND KIND MATERIAL USED ACID - 4000 GAL 15% HCL
--	--

28. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-In) SHUT-IN 1992	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By MIKE ELMORE
--	----------------------------------

30. List Attachments DEVIATION SURVEY
--

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C. P. Basham /cw# Printed Name C. P. BASHAM Title DRLG. OPER. MGR. Date 12-23-92

Submit to Appropriate
District Office:
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL FILE
Form C-103
Revised 1-1-89

WELL API NO.
30-025-31786

5. Indicate Type of Lease
STATE ☒ FEB ☐

6. State Oil & Gas Lease No.
B-1056-2

7. Lease Name or Unit Agreement Name
VACUUM GLORIETA WEST UNIT

8. Well No.
30

9. Pool name or Wildcat
VACUUM GLORIETA

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER WATER INJECTION

1b. Type of Completion:
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DEEP RESER ☐ OTHER

2. Name of Operator
TEXACO EXPLORATION AND PRODUCTION INC.

3. Address of Operator
P. O. Box 3109, Midland, Texas 79702

4. Well Location
Unit Letter J : 2305 Feet From The SOUTH Line and 1391 Feet From The EAST Line
Section 25 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded 12-10-92 11. Date T.D. Reached 12-19-92 12. Date Compl. (Ready to Prod.) 01-05-93 13. Elevations (DFA & RKB, RT, GR, etc.) GR-3990', KB-4001' 14. Elev. Casinghead 4001'

15. Total Depth 6340' 16. Plug Back T.D. 6200' 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools 0-6340' Cable Tools

19. Producing interval(s), of this completion - Top, Bottom, Name 6034' - 6097': GLORIETA 20. Was Directional Survey Made YES

21. Type Electric and Other Logs Run GR-DLL-MSFL, GR-DSN-SDL, GR-CCL 22. Was Well Cored NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1540'	11	650 SX, CIRC 65 SX	
5 1/2	15.5# & 17#	6340'	7 7/8	2375 SX, CIRC 258 SX DV TOOL @ 5026'	

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	5972'	5972'

26. Perforation record (interval, size, and number) 6034'- 6058', 6087'- 6097'. 2 JSPF: 68 HOLES				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
				6034-6097	ACID - 3000 GAL 15% HCL

28. PRODUCTION				
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)		Well Status (Prod. or Shut-in) SHUT-IN

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Spgr.)	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.			

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Test Witnessed By MIKE ELMORE

30. List Attachments
DEVIATION SURVEY
Received
Texaco
Hobbs Area

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C. P. Basham / cwh Printed Name C. P. BASHAM Title DRLG. OPER. MGR. Date 01-14-93

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL API NO.

30-025-31699

5. Indicate Type of Lease

STATE ☒

FREE ☐

6. State Oil & Gas Lease No.

B-2706

7. Lease Name or Unit Agreement Name
VACUUM GLORIETA WEST UNIT

8. Well No.

38

9. Pool name or Wildcat

VACUUM GLORIETA

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER WATER INJECTION

1b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DRAIN ☐ PLUG BACK ☐ DRY HOLE ☐ OTHER ☐

2. Name of Operator

TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

4. Well Location

Unit Letter M : 1217 Feet From The SOUTH Line and 24 Feet From The WEST Line

Section 25 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded

09-22-92

11. Date T.D. Reached

09-29-92

12. Date Compl. (Ready to Prod.)

10-08-92

13. Elevations (DFA & RKB, RT, GR, etc.)

GR-4005', KB-4019'

14. Elev. Casinghead

4005'

15. Total Depth

6270'

16. Plug Back T.D.

6200'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By Rotary Tools

0 - 6270'

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

5958' - 6127': GLORIETA

20. Was Directional Survey Made

YES

21. Type Electric and Other Logs Run

GR-DLL-MSFL-CAL, GR-DSN-SDL, GR-CCL

22. Was Well Cored

NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1550'	11	500 SX, T.S. @ 200', 1	INCH TO
				TO SURFACE W/100 SX	
5 1/2	15.5 & 17#	6270'	7 7/8	1375 SX, D.V. @ 5024'	CIRC. 45 SX 1ST
				STG., 2ND STG. DID NOT	CIRC. TOC @
				1000' BY T.S.	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD	SIZE	DEPTH SET	PACKER SET
						2 3/8		5892'

26. Perforation record (interval, size, and number)

5958-70', 5978-6004', 6096-6127' W/2 JSPF (138 HOLES)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

5958 - 6127' ACID - 6000 GAL 15% NEFE

28. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
						SHUT IN	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By
B. D. WISEMAN

30. List Attachments

DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

C. P. BASHAM

Printed Name

C. P. BASHAM

Title DRLG. OPN'S. MGR. Date 10-20-92

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL LEASE
Form C-105
Revised 12-87

WELL APN NO.

30-025-31700

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B-2706

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER WATER INJECTION

b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

8. Well No.

39

3. Address of Operator
P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat

VACUUM GLORIETA

4. Well Location

Unit Letter M : 1194 Feet From The SOUTH Line and 1055 Feet From The WEST Line

Section 25 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded
10-02-92

11. Date T.D. Reached
10-11-92

12. Date Compl. (Ready to Prod.)
10-19-92

13. Elevations (DF & RKB, RT, GR, etc.)
GR-4002', KB-4016'

14. Elev. Casinghead
4002'

15. Total Depth
6280'

16. Plug Back T.D.
6200'

17. If Multiple Compl. How
Many Zones?

18. Intervals Drilled By
Rotary Tools
0 - 6280'

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name
5980' - 6154': GLORIETA

20. Was Directional Survey Made
YES

21. Type Electric and Other Logs Run
GR-DLL-MSFL-CAL, GR-DSN-SDL-CSNG, GR-CCL

22. Was Well Cored
NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1550'	11	850 SX, CIRC. 5 SX	
5 1/2	17#	6280'	7 7/8	1700 SX, CIRC. 150 SX, D.V. TOOL @ 4989'	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8		5908'

25. TUBING RECORD

26. Perforation record (interval, size, and number)
5980 - 6026', 6116' - 6154' W/2 JSPF (158 HOLES)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5980' - 6154'	ACID - 6200 GAL 15% NEFE

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in) SHUT IN	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By
T. V. SEBASTAIN

30. List Attachments

DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C. P. BASHAM/ROC Printed Name C. P. BASHAM Title DRLG. OPN'S. MGR. Date 10-28-92

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-106
Revised 1-1-89

WELL AP NO.
30-025-31701

3. Indicate Type of Lease

STATE ☒ FEE ☐

4. State Oil & Gas Lease No.
B-2706

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER WATER INJECTION

b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DRAIN ☐ PLUG BACK ☐ DRY RESER. ☐ OTHER

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

8. Well No.
40

3. Address of Operator
P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat
VACUUM GLORIETA

4. Well Location

Unit Letter K : 1590 Feet From The SOUTH Line and 2404 Feet From The WEST Line

Section 25 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded
10-14-92

11. Date T.D. Reached
10-21-92

12. Date Compl. (Ready to Prod.)
11-03-92

13. Elevations (DF&RKB, RT, GR, etc.)
GR-4001', KB-4015'

14. Elev. Casingshead
4001'

15. Total Depth
6290'

16. Plug Back T.D.
6110'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By
Rotary Tools
0 - 6290'

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name
6002' - 6040': GLORIETA

20. Was Directional Survey Made
YES

21. Type Electric and Other Logs Run
GR-DLL-MSFL-CAL, GR-DSN-SDL-CSNG, GR-CCL

22. Was Well Cored
NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1549'	11	650 SX, CIRC. 20 SX	
5 1/2	17#	6290'	7 7/8	1700 SX, CIRC. 205 SX, D.V. TOOL @ 5022'	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8		5928'

26. Perforation record (interval, size, and number)
6002' - 6040' W/2 JSPF (76 HOLES)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6002' - 6040'	ACID - 4000 GAL 15% NEFE

28. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in) SHUT IN	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By
T. V. SEBASTAIN

30. List Attachments
DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

C.P. Basham

Printed Name

C. P. BASHAM

Title DRLG. OPN'S. MGR. Date 11-17-92

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL FILE

WELL API NO.

30-025-31838

5. Indicate Type of Lease

STATE ☒ PER ☐

6. State Oil & Gas Lease No.

B-1056-2

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER WATER INJECTION

b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DRY ☐ PLUG BACK ☐ DIFF. RESER. ☐ OTHER

2. Name of Operator

TEXACO EXPLORATION AND PRODUCTION INC.

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

8. Well No.

41

9. Pool name or Wildcat

VACUUM GLORIETA

4. Well Location

Unit Letter J : 1377 Feet From The SOUTH Line and 1646 Feet From The EAST Line

Section 25 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded

02-23-93

11. Date T.D. Reached

03-12-93

12. Date Compl. (Ready to Prod.)

03-23-93

13. Elevations (DFA, RKB, RT, GR, etc.)

GR-3995', KB-4009'

14. Elev. Casingshead

3995'

15. Total Depth

6328'

16. Plug Back T.D.

6310'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

0-6328'

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

6008' - 6290': GLORIETA

20. Was Directional Survey Made

YES

21. Type Electric and Other Logs Run

GR-DLL-MSFL-SONIC, GR-DSN-SDL, GR-CCL

22. Was Well Cored

YES

23.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1566'	11	650 SX. TOC@ 400' 1 inch	
				WITH 300 SX TO SURF.	
5 1/2	15.5# & 17#	6328'	7 7/8	1985 SX. CIRC. 97 SX.	
				DV TOOL @ 4994'	

24.

LINER RECORD

25. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	5921'	5921'

26. Perforation record (interval, size, and number)

6008' - 6290'. 2 JSPF: 176 HOLES

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

6008-6290 ACID - 5500 GAL 15% HCL

28.

PRODUCTION

Date First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)

Well Status (Prod. or Shut-in)

SHUT-IN

Date of Test

Hours Tested

Choke Size

Prod'n For Test Period

Oil - Bbl.

Gas - MCF

Water - Bbl

Gas - Oil Ratio

Flow Tubing Press.

Casing Pressure

Calculated 24-Hour Rate

Oil - Bbl.

Gas - MCF

Water - Bbl

Oil Gravity API - (Corr.)

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Tested By
RANDY THOMMELL
Hobbs Area

30. List Attachments

DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

C. P. Basham / cwt

Printed

Name C. P. BASHAM

Title DRLG. OPER. MGR.

Date 03-26-93

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-90

WELL API NO. 30-025-31728
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. E-3196

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER WATER INJECTION	7. Lease Name or Unit Agreement Name VACUUM GLORIETA WEST UNIT
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DEEP RESER. <input type="checkbox"/> OTHER	
2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.	8. Well No. 51
3. Address of Operator P. O. Box 3109, Midland, Texas 79702	9. Pool name or Wildcat VACUUM GLORIETA

4. Well Location Unit Letter A : 24 Feet From The NORTH Line and 101 Feet From The EAST Line Section 35 Township 17-SOUTH Range 34-EAST NMPM LEA County

10. Date Spudded 10-23-92	11. Date T.D. Reached 10-30-92	12. Date Compl. (Ready to Prod.) 11-10-92	13. Elevations (DF & RKB, RT, GR, etc.) GR-4009', KB-4023'	14. Elev. Casinghead 4009'
15. Total Depth 6255'	16. Plug Back T.D. 6200'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools 0 - 6255'	Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 5980' - 6142': GLORIETA				20. Was Directional Survey Made YES
21. Type Electric and Other Logs Run GR-DLL-MSFL, GR-DSN-SDL-CSNG, GR-CCL				22. Was Well Cored NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1550'	11	650 SX, CIRC. 119 SX	
5 1/2	15.5 & 17#	6255'	7 7/8	2175 SX, CIRC. 50 SX ON	1ST STG.
				D.V. TOOL @ 5036'	
				TOC @ 1150' BY TS	

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8		5939'

26. Perforation record (interval, size, and number) 5980 - 6018', 6104' - 6142' W/2 JSPF (152 HOLES)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	5980' - 6142'	ACID - 6000 GAL 15% NEFE

PRODUCTION

28. Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in) SHUT IN	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By M. D. ELMORE	

30. List Attachments DEVIATION SURVEY
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31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief			
Signature <u>C. P. Basham/ROC</u>	Printed Name <u>C. P. BASHAM</u>	Title <u>DRLG. OPN'S. MGR.</u>	Date <u>11-17-92</u>

Submit to Appropriate
District Office
State Leases - 6 copies
Fee Leases - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL AM NO. 30-025-31702
Form C-105
Revised 1-1-82

WELL AM NO. 30-025-31702
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-2706
7. Lease Name or Unit Agreement Name VACUUM GLORIETA WEST UNIT
8. Well No. 52
9. Pool name or Wildcat VACUUM GLORIETA

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER WATER INJECTION		7. Lease Name or Unit Agreement Name VACUUM GLORIETA WEST UNIT	
1b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/> OTHER <input type="checkbox"/>			
2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.		8. Well No. 52	
3. Address of Operator P. O. Box 3109, Midland, Texas 79702		9. Pool name or Wildcat VACUUM GLORIETA	
4. Well Location Unit Letter N : 214 Feet From The SOUTH Line and 1630 Feet From The WEST Line Section 25 Township 17-SOUTH Range 34-EAST NMPM LEA County			
10. Date Spudded 11-01-92	11. Date T.D. Reached 11-07-92	12. Date Compl. (Ready to Prod.) 11-18-92	13. Elevations (DF& RKB, RT, GR, etc.) GR-4005', KB-4019'
14. Elev. Casinghead 4005'			
15. Total Depth 6285'	16. Plug Back T.D. 6200'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools 0 - 6285'
19. Producing Interval(s), of this completion - Top, Bottom, Name 6002' - 6159': GLORIETA			20. Was Directional Survey Made YES
21. Type Electric and Other Logs Run GR-DLL-MSFL, GR-DSN-SDL-CSNG			22. Was Well Cored NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1550'	11	650 SX, CIRC. 50 SX	
5 1/2	15.5 & 17#	6285'	7 7/8	1675 SX, CIRC. 300 SX ON	
				D.V. TOOL @ 5039'	

LINER RECORD				TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2 3/8	5942'

26. Perforation record (interval, size, and number) 6002 - 6045', 6131' - 6159' W/2 JSPF (142 HOLES)				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
				6002' - 6159'	ACID - 6200 GAL/15% NEFE

28. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)					
Date of Test		Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.
Flow Tubing Press.		Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
29. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By DAVID THAYER	

30. List Attachments

DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C. P. Basham / ROC Printed Name C. P. BASHAM Title DRLG. OPN'S. MGR. Date 11-20-92

Hobbs Area Manager

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL FILE

WELL API NO. 30-025-31703
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-2706

WELL COMPLETION OR RECOMPLETION REPORT AND LOG	
1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER WATER INJECTION <input type="checkbox"/>	7. Lease Name or Unit Agreement Name VACUUM GLORIETA WEST UNIT
1b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DRY RESER. <input type="checkbox"/> OTHER <input type="checkbox"/>	
2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.	8. Well No. 53
3. Address of Operator P. O. Box 3109, Midland, Texas 79702	9. Pool name or Wildcat VACUUM GLORIETA

4. Well Location Unit Letter <u>N</u> : <u>215</u> Feet From The <u>SOUTH</u> Line and <u>2350</u> Feet From The <u>WEST</u> Line Section <u>25</u> Township <u>17-SOUTH</u> Range <u>34-EAST</u> NMPM LEA County	
---	--

10. Date Spudded 11-09-92	11. Date T.D. Reached 11-18-92	12. Date Compl. (Ready to Prod.) 11-30-92	13. Elevations (DFA RKB, RT, GR, etc.) GR-4003', KB-4017'	14. Elev. Casinghead 4003'
15. Total Depth 6300'	16. Plug Back T.D. 6250'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools 0 - 6300'	Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 6012' - 6170': GLORIETA				20. Was Directional Survey Made YES
21. Type Electric and Other Logs Run GR-DLL-MSFL, GR-CNL-FDC				22. Was Well Cored NO

23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1550'	11	650 SX, CIRC. 100 SX	
5 1/2	15.5 & 17#	6300'	7 7/8	1900 SX, CIRC. 225 SX	
				D.V. TOOL @ 5024'	

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8		5919'

26. Perforation record (interval, size, and number) 6012 - 19', 6028 - 70', 6150 - 70' W/2 JSPF (138 HOLES)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	6012' - 6170'	ACID - 5000 GAL 15% NEFE

28. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in) SHUT IN	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By JOHN VANCE
--	---------------------------------

30. List Attachments DEVIATION SURVEY
--

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief			
Signature <i>C.P. Basham/RSC</i>	Printed Name C. P. BASHAM	Title DRLG. OPN'S. MGR.	Date 12-08-92

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 6008
Order No. R-5530

APPLICATION OF TEXACO INC., FOR
A PRESSURE MAINTENANCE PROJECT,
LEA COUNTY, NEW MEXICO. .

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 17, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 20th day of September, 1977, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That by Commission Order No. R-5496 dated August 9, 1977, statutory unitization was approved for the Central Vacuum Unit Area, Lea County, New Mexico.

(3) That the applicant herein, Texaco Inc., seeks authority to institute a pressure maintenance project on the aforesaid Central Vacuum Unit Area, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico, by the injection of water into the San Andres formation through the 55 wells described on Exhibit A attached to this order.

(4) That to permit an efficient injection pattern, the unorthodox locations of the 54 new injection wells as reflected on said Exhibit A should be approved.

(5) That the applicant further seeks the designation of a project area and the promulgation of special rules and regulations governing said project including special allowable provisions.

(6) That the project area should consist of those proration units within the boundary of said Central Vacuum Unit upon which is located an injection well and any directly or diagonally offsetting proration unit which contains a producing well.

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Case No. 6008
Order No. R-5530

(7) That the total project area allowable should be equal to the sum of the basic project area allowable plus the water injection credit allowable, and said total project area allowable should be limited to 80 barrels of oil per day times the number of developed 40-acre proration units in the project area times two.

(8) That the basic project area allowable should be equal to 80 barrels of oil per day times the number of developed 40-acre proration units in the project area.

(9) That the water injection credit allowable should be based on the following formula:

$$\text{Water Injection Credit Allowable} = \left[\frac{\text{net water injected}}{\text{basic project area allowable voidage}} \right] \times \text{basic project area allowable}$$

and should be calculated as follows:

$$\text{Water Injection Credit Allowable} = \left\{ \frac{W_i - W_p}{\text{BPAA} \left[\beta_o + \left(\frac{R_p - R_s}{1000} \right) \beta_g \right]} - 1 \right\} \text{BPAA}$$

where W_i = Average daily water injection during previous month, project area
 W_p = Average daily water production during previous month, project area
BPAA = Basic Project Area Allowable = 80 x number of 40-acre tracts in project area
 β_o = Oil formation volume factor, reservoir barrels per stock tank barrel, as determined from Exhibit B, for latest available project area reservoir pressure
 R_p = Producing gas-oil ratio, cubic feet per barrel, during previous month, project area
 R_s = Solution gas-oil ratio, cubic feet per barrel, as determined from Exhibit B, for latest available project area reservoir pressure
 β_g = Gas formation volume factor, reservoir barrels per MCF, as determined from Exhibit B, for latest available project area reservoir pressure

In no event should the Water Injection Credit Allowable be less than zero.

(10) That the project area allowable should be produced from the wells within the project area in any proportion provided that any proration unit situated on the boundary of said Central Vacuum Unit which proration unit is not directly or diagonally offset by a San Andres injection well outside the unit should not be permitted to produce in excess of 80 barrels of oil per day.

(11) That each of the newly drilled injection wells in the project should be equipped with surface casing and production casing set at approximately 350 feet and 4800 feet, respectively, and cemented to the surface.

(12) That injection should be accomplished through 2 3/8-inch plastic coated tubing installed in a packer which should be set approximately 50 feet above the uppermost perforation in the case of newly drilled wells and at approximately 4376 feet in the one well to be converted to injection.

(13) That the casing-tubing annulus in each injection well should be filled with an inert fluid and that a pressure gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(14) That the injection wells or system should be equipped with a pop-off valve or acceptable substitute which will limit the surface injection pressure to no more than 0.2 pounds per foot of depth to the uppermost perforation unless the Secretary-Director of the Commission should administratively authorize a higher pressure.

(15) That there are 15 wells, as set out on Exhibit C to this order, which are located within or immediately adjacent to the boundaries of said Central Vacuum Unit which are completed or plugged in such a manner that will not assure that they will not serve as channels for injected water to migrate from the San Andres formation to other formations or to the surface.

(16) That to prevent migration of injected water from the San Andres formation, formation injection pressure at wells offsetting the wells identified on said Exhibit C should be limited to hydrostatic pressure until such time as the wells on said Exhibit C have been repaired or it shall otherwise be demonstrated to the satisfaction of the Secretary-Director of the Commission that the same will not serve as avenues for escape of such waters.

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Case No. 6008
Order No. R-5530

(17) That the wells within the project should be equipped to facilitate periodic testing of the annular space between strings of production and surface casing.

(18) That the operator should take all other steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, producing, or plugged and abandoned wells.

(19) That approval of the subject application should result in the recovery of additional volumes of oil from the Central Vacuum Unit Area, thereby preventing waste.

(20) That the application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to institute a pressure maintenance project in the Central Vacuum Unit Area, Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico, by the injection of water into 55 wells at orthodox and unorthodox locations as set out on Exhibit A attached to this order and by reference made a part hereof.

(2) That each of the newly drilled injection wells shall be equipped with surface casing and production casing set at approximately 350 feet and 4800 feet, respectively, and cemented to the surface.

(3) That injection shall be accomplished through 2 3/8-inch plastic coated tubing installed in a packer set approximately 50 feet above the uppermost perforation in the case of newly drilled wells and at approximately 4376 feet in the one existing well converted to injection.

(4) That the casing-tubing annulus in each injection well shall be filled with an inert fluid and a pressure gauge or approved leak detection device shall be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(5) That the injection wells or system shall be equipped with a pop-off valve or acceptable substitute which will limit the surface injection pressure to no more than 0.2 pounds per foot of depth to the uppermost perforations.

(6) That the Secretary-Director of the Commission may administratively authorize a pressure limitation in excess of that set out in Order No. (5) above upon a showing by the operator that such higher pressure will not result in fracturing of the confining strata.

(7) That the applicant shall not inject water into the formation of any well located on a 40-acre tract that has on it, or that directly or diagonally offsets a tract that has on it, one of the 15 wells identified on Exhibit C attached hereto and by reference made a part hereof, at a pressure greater than hydrostatic until such well has been repaired or it has been shown to the satisfaction of the Secretary-Director of the Commission that such well will not serve as an avenue of escape for waters injected into the San Andres formation and he has authorized a higher than hydrostatic pressure.

(8) That the wells within the project area shall be equipped with risers or in another acceptable manner such as to facilitate the periodic testing of the bradenhead for pressure or fluid production.

(9) That the operator shall immediately notify the supervisor of the Commission district office at Hobbs of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from or around any producing well, the leakage of water or oil from or around any plugged and abandoned well within the project area, or any other evidence of fluid migration from the injection zone, and shall take such timely steps as may be necessary or required to correct such failure or leakage.

(10) That the pressure maintenance project shall be designated the Texaco Inc. Central Vacuum Unit Pressure Maintenance Project.

(11) That the project area of said Central Vacuum Unit Pressure Maintenance Project shall consist of those proration units within the boundary of the Central Vacuum Unit upon which is located an injection well and any directly or diagonally offsetting proration unit which contains a producing well.

(12) That those wells within the Central Vacuum Unit Area that are not included within the project area as defined above shall be prorated in accordance with the Rules and Regulations of the Commission.

(13) That the project area shall receive a project area allowable, and said project area allowable shall be the sum of the basic project area allowable plus the water injection credit allowable, and shall be limited to 80 barrels of oil per day times the number of developed 40-acre project area times two.

(14) That the basic project area allowable shall be equal to 80 barrels of oil per day times the number of developed 40-acre proration units in the project area.

(15) That the water injection credit allowable shall be based on the following formula:

$$\text{Water Injection Credit Allowable} = \left[\frac{\text{net water injected}}{\text{basic project area allowable voidage}} \right] \times \text{basic project area allowable}$$

and should be calculated as follows:

$$\text{Water Injection Credit Allowable} = \left\{ \frac{W_i - W_p}{\text{BPAA} \left[\beta_o + \left(\frac{R_p - R_s}{1000} \right) \beta_g \right]} - 1 \right\} \text{BPAA}$$

where:

- W_i = Average daily water injection during previous month, barrels per day, project area only
- W_p = Average daily water produced during previous month, barrels per day, project area only
- BPAA = Basic Project Area Allowable = 80 x number of 40-acre tracts in project area
- β_o = Oil formation volume factor, reservoir barrels per stock tank barrel, as determined from Exhibit B (attached hereto and by reference made a part hereof), for the latest available project area reservoir pressure
- R_p = Producing gas-oil ratio, cubic feet per barrel, for previous month, project area only
- R_s = Solution gas-oil ratio, cubic feet per barrel, as determined from Exhibit B, for the latest available project area reservoir pressure
- β_g = Gas formation volume factor, reservoir barrels per MCF, as determined from Exhibit B, for latest available project area reservoir pressure

In no event shall the Water Injection Credit Allowable be less than zero, i.e., negative numbers derived from application of the above formula shall be ignored.

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Case No. 6008
Order No. R-5530

(13) That the average project area reservoir pressure shall be determined prior to the commencement of injection of water into the reservoir and at least annually thereafter. The average project area pressure shall be the average of the pressures in at least ten representative wells selected by the operator of the unit and the Supervisor of the Hobbs District Office of the Commission at an agreed upon datum.

(14) That the project area allowable may be produced from any well within the project area in any proportion provided, however, that any proration unit situated on the boundary of the Central Vacuum Unit which proration unit is not directly or diagonally offset by a San Andres injection well outside said Central Vacuum Unit shall not be permitted to produce in excess of 80 barrels of oil per day.

(15) That each month the project operator shall submit to the Commission a Pressure Maintenance Project Operator's Report, on a form prescribed by the Commission, outlining thereon the data required, and requesting allowables for each of the several wells in the Project as well as the total project area allowable. The aforesaid Pressure Maintenance Project Operator's Report shall be filed in lieu of Form C-120 for the Project.

(16) That the Commission shall, upon review of the report and after any adjustments deemed necessary, calculate the allowable for the wells in the Project for the next succeeding month in accordance with these rules. The sum of the allowables so calculated shall be assigned to the Project and, except as provided under Order (14) above, may be produced from the wells in the Project in any proportion.

(17) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

S E A L

dr/

CENTRAL VACUUM UNIT
Authorized Injection Wells

54 new wells to be drilled at the following locations:

<u>WELL NO.</u>	<u>LOCATION</u>	<u>SECTION</u>	<u>TOWNSHIP</u> <u>SOUTH</u>	<u>RANGE</u> <u>EAST</u>
5	1310' FNL & 1310' FWL	30	17	35
6	1310' FNL & 2630' FWL	30	17	35
7	1310' FNL & 1330' FEL	30	17	35
13	2630' FNL & 10' FEL	25	17	34
14	2630' FNL & 1310' FWL	30	17	35
15	2630' FNL & 2630' FWL	30	17	35
16	2630' FNL & 1330' FEL	30	17	35
25	1330' FSL & 1310' FWL	25	17	34
26	1330' FSL & 2630' FWL	25	17	34
27	1330' FSL & 1330' FEL	25	17	34
28	1330' FSL & 10' FEL	25	17	34
29	1330' FSL & 1310' FWL	30	17	35
30	1330' FSL & 2630' FWL	30	17	35
31	1330' FSL & 1330' FEL	30	17	35
40	10' FSL & 1310' FWL	25	17	34
41	10' FSL & 2630' FWL	25	17	34
42	10' FSL & 1330' FEL	25	17	34
43	10' FSL & 10' FEL	25	17	34
44	10' FSL & 1310' FWL	30	17	35
45	10' FSL & 2630' FWL	30	17	35
46	10' FSL & 1330' FEL	30	17	35
55	1310' FNL & 1310' FWL	36	17	34
56	1310' FNL & 2630' FWL	36	17	34
57	1310' FNL & 1330' FEL	36	17	34
58	1310' FNL & 10' FEL	36	17	34
59	1310' FNL & 1310' FWL	31	17	35
60	1310' FNL & 2630' FWL	31	17	35
61	1310' FNL & 1330' FEL	31	17	35
70	2630' FNL & 1310' FWL	36	17	34
71	2630' FNL & 2630' FWL	36	17	34
72	2630' FNL & 1330' FEL	36	17	34
73	2630' FNL & 10' FEL	36	17	34
74	2630' FNL & 1310' FWL	31	17	35
81	1330' FSL & 1310' FWL	36	17	34
82	1330' FSL & 2630' FWL	36	17	34
83	1330' FSL & 1330' FEL	36	17	34
84	1330' FSL & 10' FEL	36	17	34
85	1330' FSL & 1310' FWL	31	17	35
93	10' FSL & 1310' FWL	31	17	35
94	10' FSL & 2630' FWL	31	17	35
99	1310' FNL & 1310' FWL	6	18	35
100	1310' FNL & 2630' FWL	6	18	35
101	1310' FNL & 1330' FEL	6	18	35
106	2520' FNL & 1040' FWL	6	18	35

Case No. 6008
Order No. R-5530
Exhibit "A"

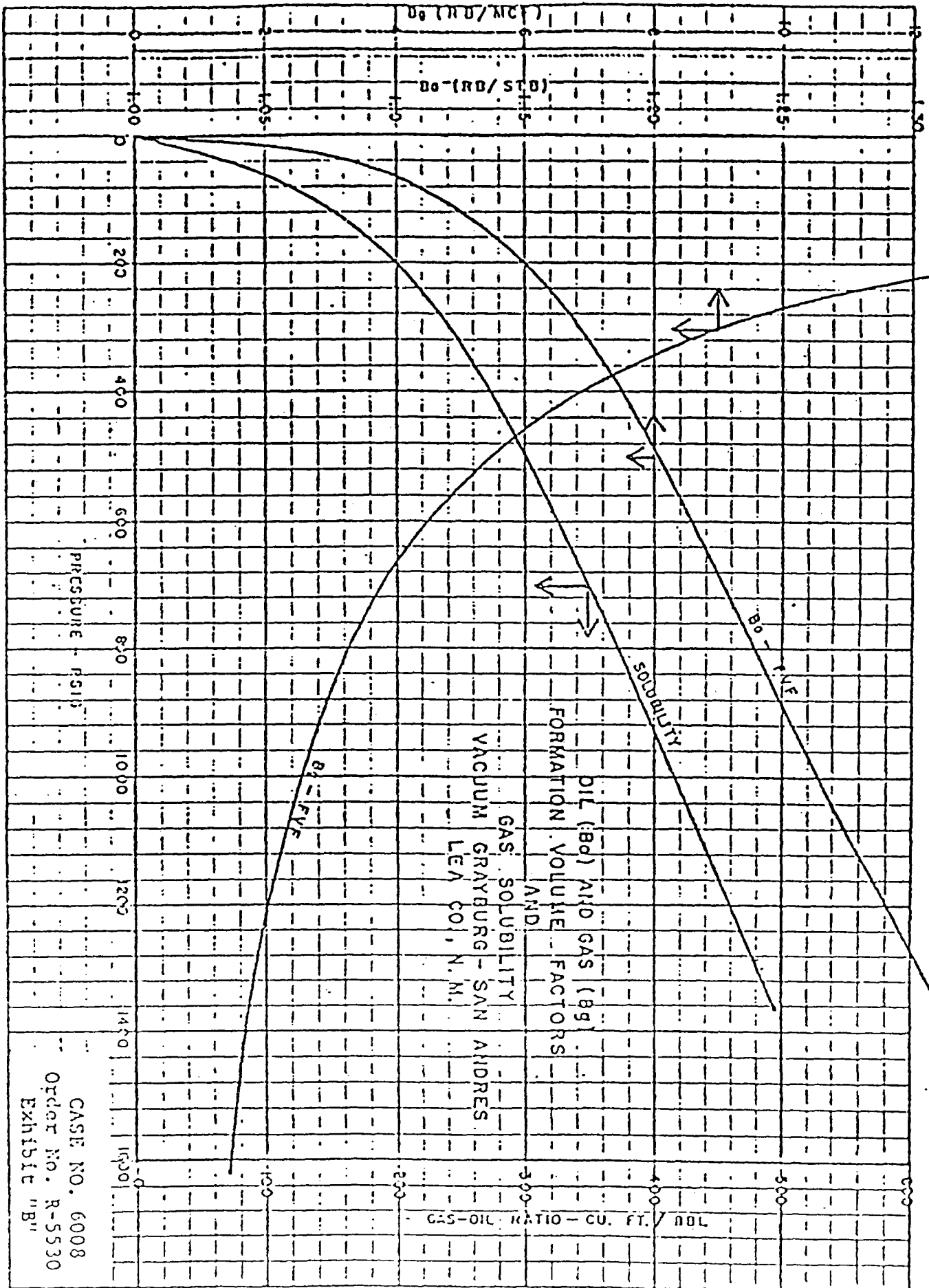
54 new wells to be drilled at the following locations continued

<u>WELL NO.</u>	<u>LOCATION</u>	<u>SECTION</u>	<u>TOWNSHIP</u> <u>SOUTH</u>	<u>RANGE</u> <u>EAST</u>
107	2450' FNL & 2630' FWL	6	18	35
108	2630' FNL & 1480' FEL	6	18	35
113	1620' FSL & 1100' FWL	6	18	35
114	1460' FSL & 2100' FWL	6	18	35
115	1600' FSL & 1500' FEL	6	18	35
120	60' FNL & 1100' FWL	7	18	35
121	400' FSL & 2380' FWL	6	18	35
122	350' FSL & 1560' FEL	6	18	35
128	1310' FNL & 200' FEL	12	18	34
129	1310' FNL & 2630' FWL	7	18	35

One existing well, Sun Oil Company Lea State "B" No. 7 located as follows:

131	2119' FNL & 918' FWL	7	18	35
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Case No. 6008
Order No. R-5530
Exhibit "A"



CASE NO. 6008
 Order No. R-5530
 Exhibit "B"

<u>OPERATOR</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>UT.</u>	<u>SEC.</u>	<u>TWP.</u>	<u>RGE.</u>
Continental Oil Co.	State H 35	9	H	35	17S	34E .
Getty Oil Company	State AN	8	P	7	18S	35E
Getty Oil Company	State AN	9	I	7	18S	35E
Getty Oil Company	State BA	6	D	36	17S	34E
Marathon Oil Co.	Warn State A/c 2	6	K	6	18S	35E
Marathon Oil Co.	Warn State A/c 2	10	K	6	18S	35E
Mobil Oil Corp.	Bridges State	11	F	25	17S	34E
Mobil Oil Corp.	State DD	1	D	31	17S	35E
Phillips Petroleum Co.	Santa Fe	87	L	31	17S	35E
Texaco Inc.	New Mexico "AB" State	5	J	6	18S	35E
Texaco Inc.	New Mexico "AE" State	4	F	12	18S	34E
Texaco Inc.	New Mexico "O" State NCT-1	14	J	36	17S	34E
Texaco Inc.	New Mexico "O" State NCT-1	18	H	36	17S	34E
Texaco Inc.	New Mexico "P" State	1	J	7	18S	35E
Texaco Inc.	New Mexico "Q" State	4	P	25	17S	34E

Case No. 6008
Order No. R-5530
Exhibit "C"

VACUUM-GRAYBURG-SAN ANDRES POOL
(Central Vacuum Unit)
Lea County, New Mexico

Order No. R-5496, Approving for Statutory Unitization the Central Vacuum Unit, Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico, August 9, 1977.

Application of Texaco Inc. for Statutory Unitization and Pressure Maintenance, Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico.

CASE NO. 5970
Order No. R-5496

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on June 22, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 9th day of August, 1977, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Texaco Inc., seeks the statutory unitization, pursuant to the "Statutory Unitization Act," Sections 65-14-1 through 65-14-21, NMSA, 1953 Compilation, of 3,046.2 acres, more or less, of State and fee lands, being a portion of the Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico, and approval of the plan of unitization and the proposed operating plan.

(3) That the proposed unit area would be designated the Central Vacuum Unit Area; that the vertical limits of said unit area would be the subsurface formation commonly known as the Grayburg-San Andres formation identified between the depths of 3858 feet (plus 144 feet sub-sea) and 4858 feet (minus 856 feet sub-sea) on the Welx Acoustic Velocity Log, run on November 15, 1963, in Texaco's State of New Mexico "O" (NCT-1) Well No. 23, located in the SW/4 SE/4 of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, and is to include all subsurface points throughout the Unit area correlative to those identified depths, and that the unit area would comprise the following described lands:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 25: S/2 and SE/4 NE/4
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 30: All
Section 31: N/2, SW/4, and SW/4 SE/4

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM
Section 12: N/2 NE/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 6: All
Section 7: NW/4 and NW/4 NE/4

(4) That the portion of the Vacuum-Grayburg-San Andres Pool proposed to be included in the aforesaid Central Vacuum Unit Area has been reasonably defined by development.

(5) That the applicant proposes to institute a pressure maintenance project for the secondary recovery of oil and gas in the proposed unit area.

(6) That the unitized management, operation and further development of the subject portion of the Vacuum-Grayburg-San Andres Pool, as proposed, is reasonably necessary in order to effectively carry on secondary recovery operations and to substantially increase the ultimate recovery of oil from the pool.

(7) That the proposed unitized method of operation as applied to the Central Vacuum Unit Area is feasible, will prevent waste, and will result with reasonable probability in the increased recovery of substantially more oil from the pool than would otherwise be recovered.

(8) That the estimated additional costs of such operations will not exceed the estimated value of the additional oil so recovered plus a reasonable profit.

(9) That such unitization and adoption of the proposed unitized method of operation will benefit the working interest owners and royalty owners of the oil and gas rights within the Central Vacuum Unit Area.

(10) That the applicant has made a good faith effort to secure voluntary unitization within the Vacuum Grayburg-San Andres Pool.

(11) That the participation formula contained in the unitization agreement allocates the produced and saved unitized hydrocarbons to the separately owned tracts in the unit area on a fair, reasonable and equitable basis, and protects the correlative rights of all owners of interest within the unit area.

(12) That applicant's Exhibits Nos. 8 and 9 in this case, being the Unit Agreement and the Unit Operating Agreement should be incorporated by reference into this order.

(13) That the Statutory Unitization of the Central Vacuum Unit Area, in conformance to the above findings, will prevent waste and protect correlative rights and should be approved.

IT IS THEREFORE ORDERED:

(1) That the Central Vacuum Unit Agreement, covering 3,046.2 acres, more or less, of State and fee lands in the Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico, is hereby approved for statutory unitization pursuant to the Statutory Unitization Act, Sections 65-14-1 through 65-14-21, NMSA, 1953 Compilation.

(2) That the lands covered by said Central Vacuum Unit Agreement shall be designated the Central Vacuum Unit Area and shall comprise:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 25: S/2 and SE/4 NE/4
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 30: All
Section 31: N/2, SW/4, and SW/4 SE/4

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM
Section 12: N/2 NE/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 6: All
Section 7: NW/4 and NW/4 NE/4

(VACUUM-GRAYBURG-SAN ANDRES (CENTRAL
VACUUM UNIT) POOL - Cont'd.)

(3) That the vertical limits of the Central Vacuum Unit Area shall be the Grayburg-San Andres formation identified between the depths of 3858 feet (plus 144 feet sub-sea) and 4858 feet (minus 856 feet sub-sea) on the Welox Acoustic Velocity Log, run on November 15, 1963, in Texaco's State of New Mexico "O" (NCT-1) Well No. 23, located in the SW/4 SE/4 of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, and is to include all subsurface points throughout the Unit area correlative to those identified depths.

(4) That applicant's Exhibit No. 8 in this case, being the Central Vacuum Unit Agreement, is hereby incorporated by reference into this order.

(5) That applicant's Exhibit No. 9 in this case, being the Central Vacuum Unit Operating Agreement, is hereby incorporated by reference into this order.

(6) That the Central Vacuum Unit Agreement and the Central Vacuum Unit Operating Agreement provide for unitization and unit operation of the subject portion of the Vacuum-Grayburg-San Andres Pool upon terms and conditions that are fair, reasonable and equitable and include:

an allocation to the separately owned tracts in the unit area of all the oil and gas that is produced from the unit area and is saved, being the production that is not used in the conduct of operations on the unit area or not unavoidably lost;

a provision for the credits and charges to be made in the adjustment among the owners in the unit area for their respective investments in wells, tanks, pumps, machinery, materials and equipment contributed to the unit operations;

a provision governing how the costs of unit operations including capital investments shall be determined and charged to the separately owned tracts and how said costs shall be paid including a provision providing when, how, and by whom the unit production allocated to an owner who does not pay the share of the costs of unit operations charged to such owner, or the interest of such owner, may be sold and the proceeds applied to the payment of such costs;

a provision for carrying any working interest owner on a limited, carried or net-profits basis, payable out of production, upon such terms and conditions determined by the Commission to be just and reasonable, and allowing an appropriate charge for interest for such service payable out of such owner's share of production, provided that any nonconsenting working interest owner being so carried shall be deemed to have relinquished to the unit operator all of its operating rights and working interest in and to the unit until his share of the costs, service charge and interest are repaid to the unit operator;

a provision designating the unit operator and providing for the supervision and conduct of the unit operations, including the selection, removal or substitution of an operator from among the working interest owners to conduct the unit operations;

a provision for a voting procedure for the decision of matters to be decided by the working interest owners in respect to which each working interest owner shall have a voting interest equal to its unit participation; and

the time when the unit operation shall commence and the manner in which, and the circumstances under which, the operations shall terminate and for the settlement of accounts upon such termination;

and are therefore hereby adopted.

(7) That this order shall not become effective unless and until the appropriate ratification provisions of Section 65-14-8, NMSA, 1953 Compilation, are complied with.

(8) That if the persons owning the required percentage of interest in the unit area as set out in Section 65-14-8 NMSA, 1953 Compilation, do not approve the plan for unit operations within a period of six months from the date of entry of this order, this order shall cease to be of further force and effect and shall be revoked by the Commission, unless the Commission shall extend the time for ratification for good cause shown.

(9) That when the persons owning the required percentage of interest in the unit area have approved the plan for unit operations, the interests of all persons in the unit are unitized whether or not such persons have approved the plan of unitization in writing.

(10) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

CENTRAL VACUUM UNIT
OLD WELL NO. - NEW WELL NO.
CROSS REFERENCE

OLD WELL NO.		NEW WELL NO.
AMERADA		Central Vacuum Unit
State "VB"	1	79
State "B 1578"	1	10
State "B 1578"	2	3
State "LDE"	1	2
BETTIS, BOYLE & STOVALL		
State "E"	1	1
GETTY		
State "AN"	11	123
State "BA"	1	51
State "BA"	2 & 9-183	52
State "BA"	3	54
State "BA"	4	53
State "J"	1	49
MARATHON		
McAllister State	1	38
McAllister State	2	23
McAllister State	3	39
McAllister State	4	24
Staplin State (AC-1)	1	34
Staplin State (AC-1)	4 & 5	19
Warn State (AC-1)	1	64
Warn State (AC-1)	2	75
Warn State (AC-2)	1	98
Warn State (AC-2)	2	97
Warn State (AC-2)	3	105
Warn State (AC-2)	4	104
Warn State (AC-2)	5	112
Warn State (AC-2)	7	119
Warn State (AC-2)	16	118
Warn State (AC-2)	17	111
MOBIL		
State "I"	1	80
State "H"	1	50
PHILLIPS		
Santa Fe	1	65
Santa Fe	2 & 120-132	33
Santa Fe	4	86
Santa Fe	5	76
Santa Fe	25	18
SHELL		
✓ State "A"	1	48
✓ State "A"	2	63
✓ State "A"	3	62
✓ State "A"	4	47
✓ State "B"	1	32
✓ State "B"	2	17
✓ State "D"	1	88
✓ State "E"	1	87
✓ Swigart	1	21
SOHIO		
Humble State	1	127
Humble State	2	126
SUN		
"B Lee" State	6	130
"B Lee" State	7	131

OLD WELL NO.

NEW WELL NO.

TEXACO

New Mexico "AB" State	1
New Mexico "AB" State	6
New Mexico "AB" State	7
New Mexico "AB" State	8
New Mexico "CG" State (NCT-1)	1
New Mexico "N" State	1
New Mexico "N" State	2
New Mexico "N" State	3
New Mexico "N" State	4
New Mexico "O" State (NCT-1)	1
New Mexico "O" State (NCT-1)	2
New Mexico "O" State (NCT-1)	3
New Mexico "O" State (NCT-1)	4
New Mexico "O" State (NCT-1)	5
New Mexico "O" State (NCT-1)	6
New Mexico "O" State (NCT-1)	7
New Mexico "O" State (NCT-1)	8
New Mexico "O" State (NCT-1)	9
New Mexico "O" State (NCT-1)	10
New Mexico "Q" State	1
New Mexico "Q" State	2
New Mexico "Q" State	3
New Mexico "R" State (NCT-1)	1
New Mexico "R" State (NCT-1)	2
New Mexico "R" State (NCT-1)	3
New Mexico "R" State (NCT-1)	5
New Mexico "R" State (NCT-4)	1
New Mexico "R" State (NCT-4)	2
New Mexico "T" State (NCT-1)	3

Central Vacuum Unit

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Z 106 611 695



**Receipt for
Certified Mail**
No Insurance Coverage Provided

Shell Western E&P Inc.
P.O. Box 576
Houston, Texas
77001-0576

PS Form 3800, March 1993

Postage	\$.75
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 2.75
Postmark or Date	

Z 106 611 696



**Receipt for
Certified Mail**
No Insurance Coverage Provided

Conoco, Inc.
10 Desta Drive W.
Suite 100
Midland, Texas 79705

PS Form 3800, March 1993

Postage	\$.75
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 2.75
Postmark or Date	

Z 106 611 697



**Receipt for
Certified Mail**
No Insurance Coverage Provided

Roy Pearce, Jr. Trust
1717 S. Jackson St.
Pecos, Tx 79772

PS Form 3800, March 1993

Postage	\$.75
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 2.75
Postmark or Date	

Z 106 611 694



**Receipt for
Certified Mail**
No Insurance Coverage Provided

Mobil Oil Corp.
P.O. Box 633
Midland, Texas 79702

PS Form 3800, March 1993

Postage	\$.75
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 2.75
Postmark or Date	

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of _____

two weeks.

Beginning with the issue dated

September 29, 19 94

and ending with the issue dated

October 6, 19 94

Kathi Bearden
General Manager

Sworn and subscribed to before

me this 11 day of

October, 19 94

Charlene Perrin
Notary Public.

My Commission expires

March 15, 1997

(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE

September 29,

October 6, 1994

Notice is hereby given of the application of Texaco Exploration & Production Inc., Attention: Terry L. Frazier, Area Manager, P.O. Box 730, Hobbs, New Mexico, 88240, Telephone (505) 393-7191, to the New Mexico Oil Conservation Commission, Energy and Minerals Department, for approval to convert one producing well to water injection for the purpose of pressure maintenance.

Unit Name: Central Vacuum Unit, Lea County, New Mexico

Conversion Well Number and Location: 223 - Unit Letter K, 1821 FSL & 1330 FWL, Section 25, T14S, R35E

The injection formation is Vacuum Grayburg San Andres at a depth of 4300 feet below the surface of the ground. Expected maximum injection rate is 1500 barrels per day, and expected maximum initial injection pressure is 900 pounds per square inch. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication.

VACUUM GRAYBURG/ SAN ANDRES

COMPLETIONS

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WI-16

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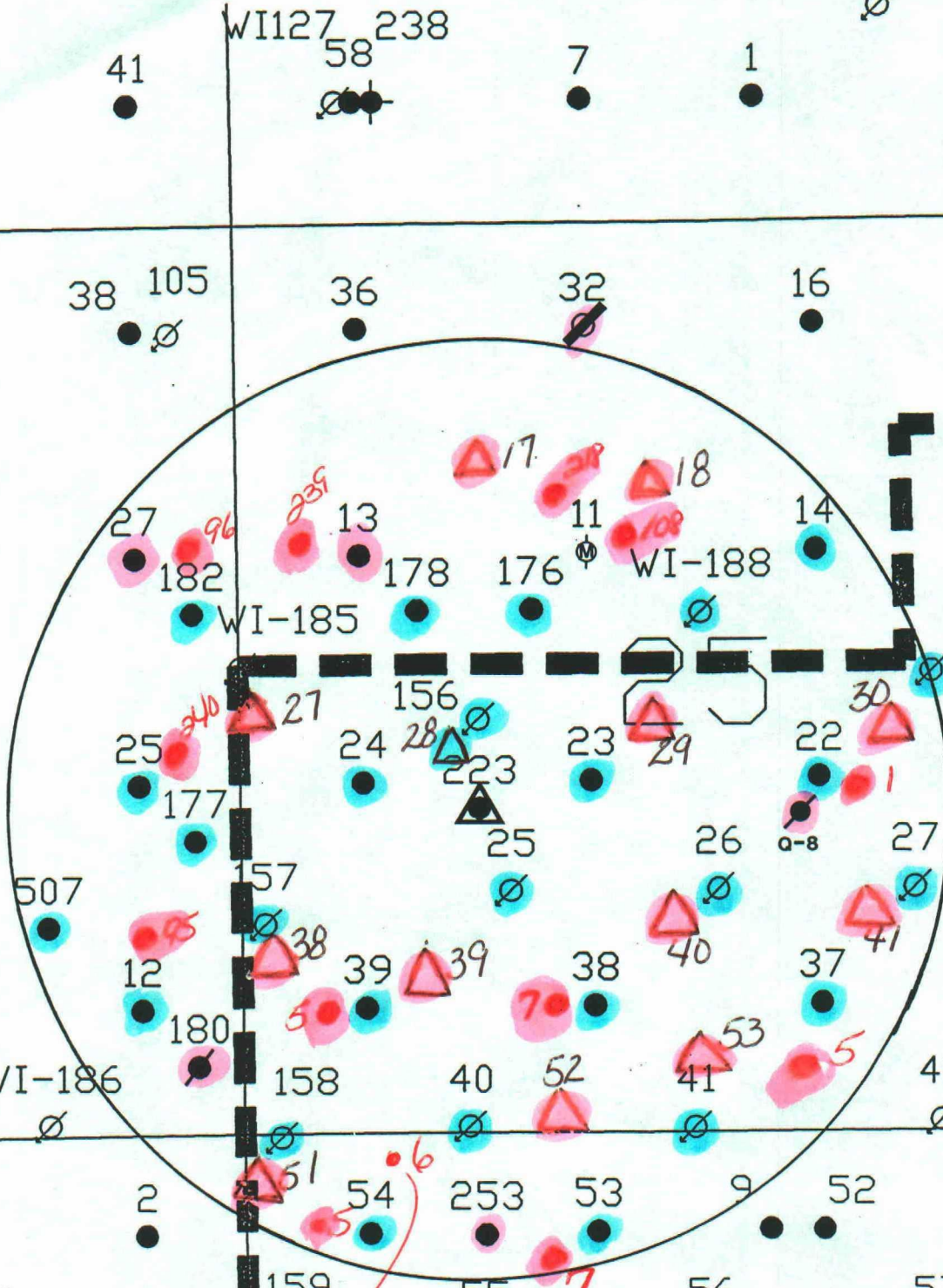
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CENT
VACL

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#6 State BA No. 6
Texas
Squeezed?