

Case Number

6008

Application

Transcripts.

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
17 August, 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco, Inc. for a
pressure maintenance project, Lea
County, New Mexico.

CASE
6008

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil Conservation Commission: Lynn Teschendorf, Esq.
Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

For the Applicant: Ken Bateman, Esq.
WHITE, KOCH, KELLY & McCARTHY
220 Otero Street
Santa Fe, New Mexico

For Phillips Petroleum Company: W. Thomas Kellahin, Esq.
KELLAHIN & FOX
500 Don Gaspar
Santa Fe, New Mexico

sid morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

1 MR. STAMETS: Call next Case 6008.

2 MS. TESCHENDORF: Case 6008. Application of
3 Texaco, Inc. for a pressure maintenance project, Lea County,
4 New Mexico.

5 MR. STAMETS: I'll call for appearances.

6 MR. BATEMAN: Mr. Examiner, I'm Ken Bateman with
7 White, Koch, Kelly and McCarthy, appearing on behalf of the
8 Applicant, and this advertisement was given to insure that
9 adequate notice was given of the pressure maintenance aspect
10 of the application in Case 5970, and I request that the
11 record of Case 5970 be incorporated in Case 6008.

12 MR. KELLAHIN: Tom Kellahin of Kellahin and Fox,
13 Santa Fe, New Mexico, appearing on behalf of Phillips Pet-
14 roleum Company and we concur in Mr. Bateman's request.

15 MR. STAMETS: The record in Case 5970 will be
16 incorporated into the record today.

17 Anything further in this case?

18 The case will be taken under advisement.

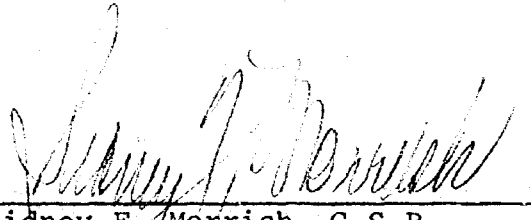
19 (Hearing concluded.)
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sid morrish reporting service

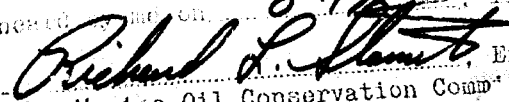
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,
do hereby certify that the foregoing and attached Transcript
of Hearing before the New Mexico Oil Conservation Commission
was reported by me, and the same is a true and correct record
of the said proceedings to the best of my knowledge, skill
and ability.


Sidney F. Morrish, C.S.R.

sid morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

I do hereby certify that the foregoing is
a complete and correct report of the proceedings in
the hearing of Case No. 6008
heard on 8-17-77 1977

Richard L. Starnes, Examiner
New Mexico Oil Conservation Commission

Memo

Aug 17

From

FLORENE DAVIDSON
ADMINISTRATIVE SECRETARY

To

appl. of Texaco for
a pressure mainten-
ance project, Lea
County NM ~~by~~ on
its Central Vacuum Unit
Area, Vacuum G-Sa
Pool, by the inj of
water into the G-Sa
form thru 54 wells

OIL CONSERVATION COMMISSION-SANTA FE



DIRECTOR
JOE D. RAMEY

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

LAND COMMISSIONER
PHIL R. LUCERO



STATE GEOLOGIST
EMERY C. ARNOLD

Mr. Kenneth Bateman
White, Koch, Kelly & McCarthy
Attorneys at Law
P. O. Box 787
Santa Fe, New Mexico

Re: CASE NO. 6008
ORDER NO. R-5530

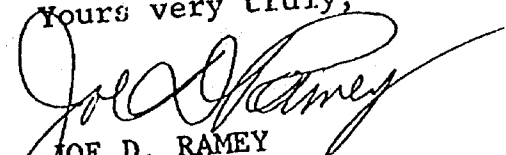
Applicant:

Texaco Inc.

Dear Sir:

Enclosed herewith are two copies of the above-referenced
Commission order recently entered in the subject case.

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC X
Artesia OCC X
Aztec OCC

Other Tom Kellahin

see case 5948
55^{injection} wells unorthodox locations

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 6008

APPLICATION

COMES NOW Texaco, Inc., by White, Koch, Kelly & McCarthy and moves the Commission for its order approving a pressure maintenance project in the Central Vacuum Unit, Lea County, New Mexico located on lands more particularly described as follows:

Township 17 South, Range 34 East
Section 25: SE/4 NE/4 and S/2

Township 17 South, Range 35 East
Section 30: All
Section 31: N/2, SW/4 and SW/4 SE/4

Township 18 South, Range 34 East
Section 12: N/2 NE/4

Township 18 South, Range 35 East
Section 6: All
Section 7: NW/4 and NW/4 NE/4

And as cause therefore respectfully shows the following:

1. Attached hereto marked Exhibit "A" is a plat showing the location of proposed injection wells and, in addition, the location of an existing producing well to be converted into an injection well, designated as well number 131 (Sun Oil Company "B" Lee State number 7) located in the southwest quarter of the northwest quarter of Section 7, Township 18 South, Range 35 East, N.M.P.M.

2. Attached hereto marked Exhibit "B" and incorporated herein by reference is a plat showing all wells within a radius of two miles from the proposed injection wells and a formation from which the wells are producing or have produced. In addition, the names of the lessees of off-setting acreage within a two miles radius is indicated.

3. Attached hereto as Exhibit "C" is a diagramatic sketch of the proposed injection wells showing the casing strings, including the diameters and setting depths, quantity use and tops of cement, the perforated and open hole intervals, tubing strings, including diameters and setting depths and the type and location of packers.

4. Attached hereto as Exhibit "E" is a diagramatic sketch of the Sun Oil Company "B" Lease State No. 7 indicating the proposed conversion of the well to an injection well.

5. The applicant proposes to inject fresh water from the Ogalala formation into the wells at the rate of 900 barrels per day per well to be injected into the producing formation, specifically the Grayburg-San Andres formation identified between the depths of 3,858 feet (plus 144 feet sub-sea) and 4,858 (minus 856 feet sub-sea) on the Welex Acoustic Velocity Log run on November 15, 1963 in Texaco's State of New Mexico "O" (NPC-1) Well No. 23, located in the southwest quarter of the southeast quarter of Section 36, Township 17 South, Range 34 East, Lea County, New Mexico, and all sub-surface points throughout the unit area correlative to the identified depths.

WHEREFORE applicant prays that the Commission determine that a sufficient showing has been made of the conditions required by Rule 701; that the Commission make findings to that effect and promulgate its Order permitting pressure maintenance project as proposed by the applicant in the Central Vacuum Unit, Lea County, New Mexico.

Respectfully submitted,

WHITE, KOCH, KELLY & MCCARTHY

By: 

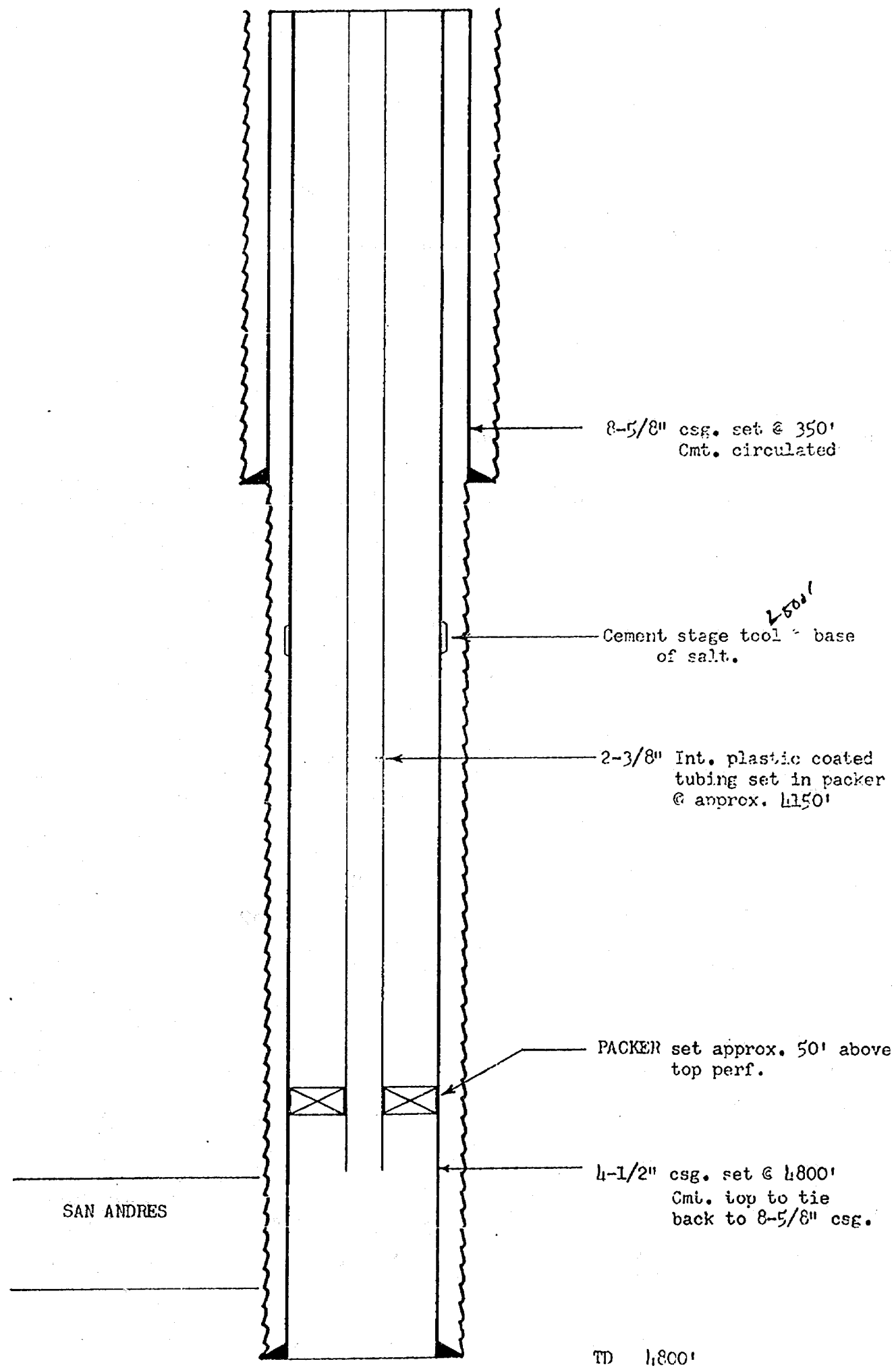
KENNETH BATEMAN

Attorneys for Applicant -

Texaco, Inc.

P. O. Box 787

Santa Fe, New Mexico 87501

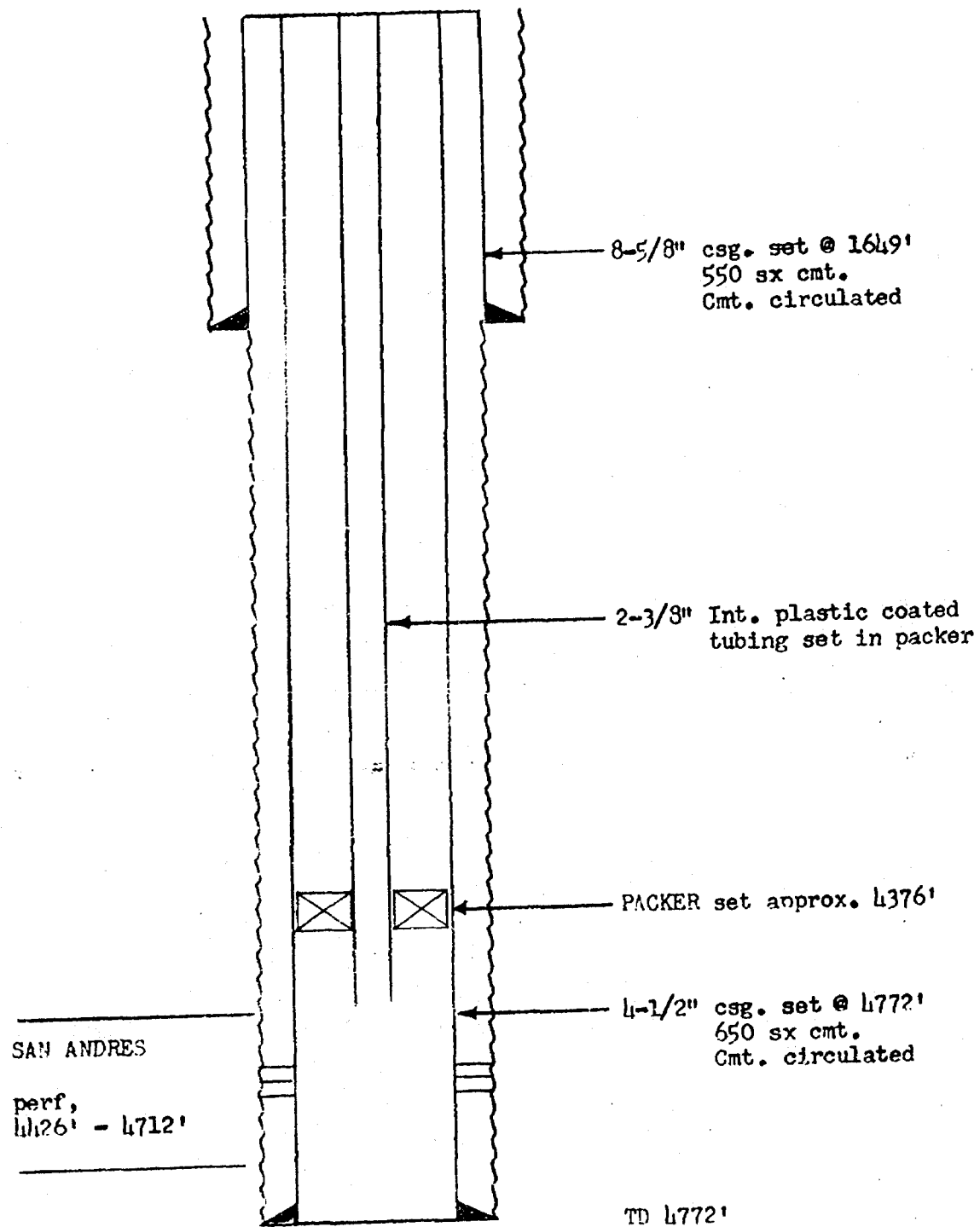


TYPICAL INJECTION WELL COMPLETION

TEXACO Inc.
PROPOSED
CENTRAL VACUUM UNIT
VACUUM (GRAYBURG-SAN ANDRES) FIELD
LEA COUNTY, NEW MEXICO

WRH/CRC 5-10-77

EXHIBIT "C"



PROPOSED CVU NO. 131 WELL COMPLETION
(SUN OIL CO. "B" LEE STATE NO. 7)

TEXACO Inc.
CENTRAL VACUUM UNIT
VACUUM (GRAYBURG-SAN ANDRES) FIELD
LEE COUNTY, NEW MEXICO

WRH/SWY 6-8-77

#14

EXHIBIT "D"

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

February 8, 1979

Texaco Inc.
Drawer 728
Hobbs, New Mexico 88240

Attention: Mr. J. V. Gannon

Gentlemen:

After reviewing the information in your letter of January 29, 1979, it would appear that your New Mexico "Q" State Well No. 4 and the New Mexico "AB" State Well No. 5 have been cemented sufficiently so as to prevent migration of water injected into the San Andres formation.

It will therefore not be necessary to perform remedial work on these wells as stipulated in Order No. R-5530.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

C
O
P
Y



PETROLEUM PRODUCTS

January 29, 1979

TEXACO INC.
DRAWER 728
HOBBS, NEW MEXICO 88240

CENTRAL VACUUM UNIT
LEA COUNTY, NEW MEXICO

6008

State of New Mexico
Department of Energy and Minerals
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico, 87501

Attention: Mr. Joe D. Ramey
Secretary-Director

Richard:
What do you

think.
JDR

Gentlemen:

In accordance with Paragraph 7 of NMOCC Order R-5530 and Exhibit "C" to Order R-5530, certain injection wells in the Central Vacuum Unit are restricted to injection below hydrostatic pressure until those wells on Exhibit "C" are repaired or it has been demonstrated that the wells will not serve as an avenue of escape for injection water.

In our opinion the Texaco-New Mexico "AB" State Well No. 5 and Texaco-New Mexico "Q" State Well No. 4 will not serve as avenues of escape for injection water in the San Andres formation. In the case of the New Mexico "AB" State No. 5, cement was circulated on the surface casing (340 feet) and intermediate casing (3070 feet) while the cement top on the production casing strings (set at 8849 and 8850 feet) is approximately 1250 feet. The cement top, which was reported on this well in conjunction with our application for the Central Vacuum Unit Pressure Maintenance Project, was inadvertently reported as being at 6200 feet. The enclosed Temperature Log shows the cement top to be at 1250 feet (the top of the Neat cement is at 6200 feet and is the source of the confusion on the cement top). Calculations of the cement volume used in cementing this well show that the cement volume exceeds the calculated annular volume up to the cement top (1250 feet) by 38 percent.

AB 5 J 6-18-35

Q 5+ 4 P 25-17-34

This is recycled paper

January 29, 1979

Since cement circulated on the intermediate casing and the cement top on the production casing is 1820 feet above the intermediate casing shoe, it is our opinion that this well will not serve as an avenue of escape for water injected into the San Andres formation.

In the case of the New Mexico "Q" State Well No. 4, cement was circulated on the surface casing (385 feet) and intermediate casing (4799 feet) while the cement top on the production casing strings (set at 10,150, 10,176, and 11,468 feet) is calculated to tie into the intermediate casing by at least 500 feet. Calculations of the cement volume used in cementing this well show that the cement volume exceeds the calculated annular volume up to 4299 feet (500 feet above the intermediate casing shoe by 55 percent). Calculations on similar wells in the area with known cement tops show 53 percent excess. Furthermore, the intermediate casing is set approximately 70 feet below the lowermost San Andres injection interval. Therefore, it is our opinion that this well will not serve as an avenue of escape for water injected into the San Andres reservoir.

Your early consideration and reply on this matter will be appreciated.

Yours very truly,

TEXACO INC.
PRODUCING DEPARTMENT-CENTRAL U. S.

J V Gannon

J. V. Gannon
District Superintendent

WRH:JEB

Attachment

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 5, 1979

Mobil Oil Corporation
Three Greenway Plaza East
Suite 800
Houston, Texas 77046

Attention: Mr. J. A. Morris

Gentlemen:

After reviewing the schematic diagram of the wellbore of your State DD Well No. 1, it appears the well is cased and cemented in such a manner as to contain water injected into the San Andres pay zones.

It will therefore not be necessary to do additional work on the well as required by Order No. R-5530.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

cc: Hobbs
Case File No. 6008

C
O
P
Y

Memo

From

JERRY SEXTON

District Supervisor

January 3, 1979

To Joe

Attached is a copy of the letter from Mobil requesting an exemption to Order R-5530 requiring them to recement their State DD well #1 in Unit D of Sec. 31, T17S, R35E.

The letter explains what they have in the well, but a schematic and casing report have also been included.

NEW MEXICO OIL CONSERVATION COMMISSION — HOBBS, NEW MEXICO

January 23, 1978

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey
Secretary Director

7.01
MOBIL OIL CORPORATION STATE "DD"
WELL NO. 1 - CENTRAL VACUUM
UNIT AREA, VACUUM-GRAYBURG-
SAN ANDRES POOL NMOCC
ORDER NO. R-5530, EXHIBIT "C"

Gentlemen:

The captioned well is listed in your Exhibit "C", NMOCC Order No. R-5530 as a well completed in such a manner that it might serve as a channel for injected water to migrate from the San Andres Pay to other formations, or to the surface.

Please find attached a diagrammatic wellbore sketch of Mobil's State "DD" #1, in the Vacuum North Abo Field, Lea County, New Mexico.

The wellbore sketch shows the cement behind the 9-5/8" casing circulated to the surface. The San Andres pay to be flooded is 4358'-4668'. The bottom of this pay is 232' above the 9-5/8" casing shoe. The formation below this pay is tight, with only a few streaked intervals of porosity down to the top of the Glorietta at 5900'. Considering the distance from the bottom of the flooded pay to the casing shoe, and the lack of consistent porosity through that interval, we feel that this wellbore will not serve as an avenue of escape of injected water, and needs no remedial work.

Yours very truly,

J. A. Morris
Regulatory Engineering Supervisor

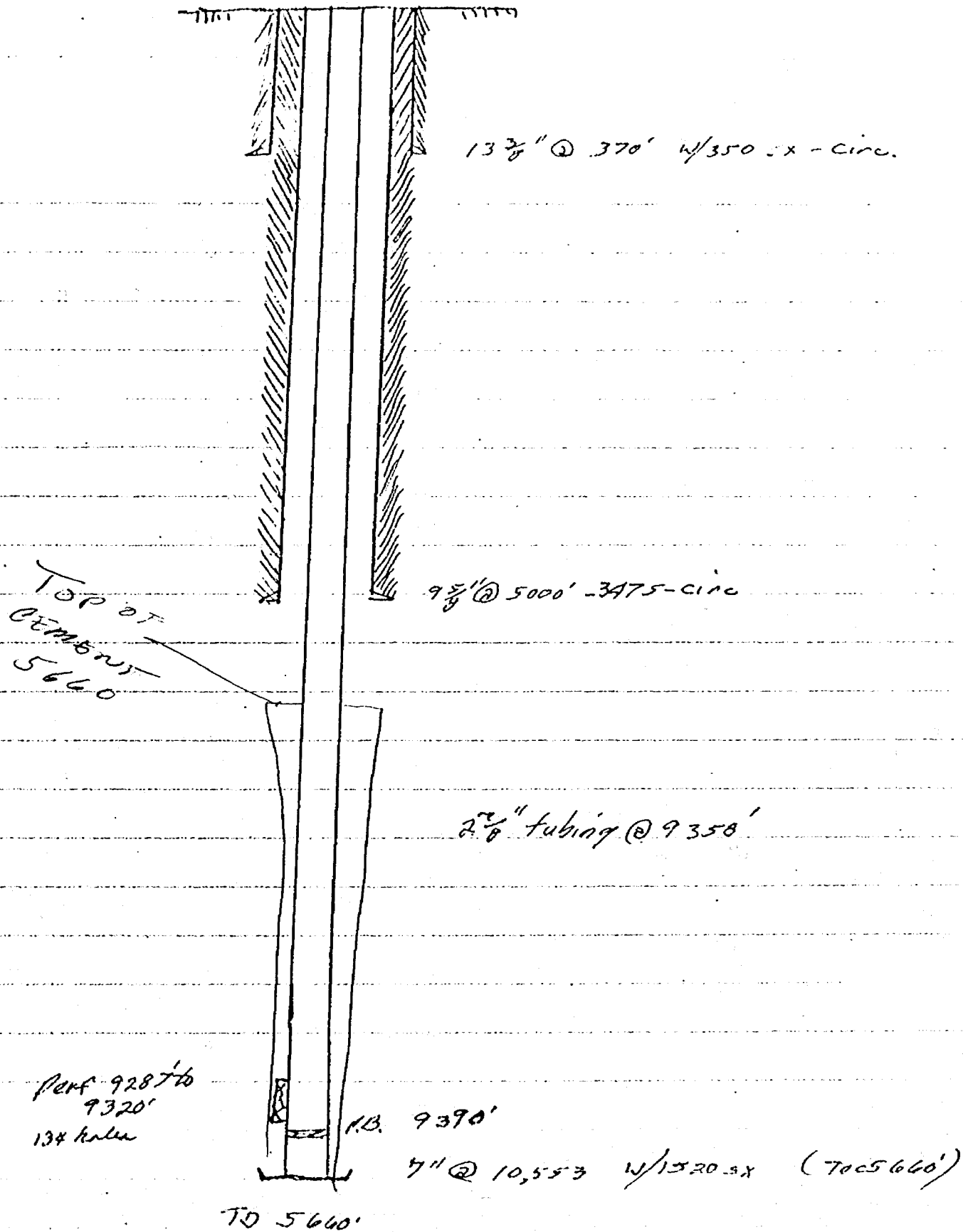
RFWeaver/dah *HFW*

NMOCC has reviewed your data and concur with your opinion.

bcc: AJALCOTT
NE BOURLAND
AJ HARRISON

SIGNED _____
Secretary Director NMOCC

Mobil
State "DD" Com 44
D-31-17-35



OFFICE	
DATE	
TIME	
BY	
FOR	
TO	
FROM	
REMARKS	

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company Socony Mobil Oil Company, Inc.		Address Box 1800, Hobbs, New Mexico			
Lease State "DD" Unit	Well No. 1	Unit Letter D	Section 31	Township 17 S	Range 35 E
Date Work Performed 11-20-64	Pool Undesignated		County Lea		

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
 ☒ Casing Test and Cement Job
 ☐ Other (Explain):
☐ Plugging
 ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Set 10,493' of 26 1/2" casing at 10,553' with 60' of 26.4 1/2" 7 5/8" casing on top. Cemented w/1420 sx. Tr. Litewate + 100 sx. Tr. Neat. Plug down at 10:40 P. M. 11-20-64. Did not circulate cement. WOC 24 hours. Top of cement at 5,660' by survey. Tested 7" casing 11-26-64 w/3000# for 30 minutes. Tested OK.

Witnessed by E. D. Hughes	Position Drilling Foreman	Company Socony Mobil Oil Company, Inc.
------------------------------	------------------------------	---

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by		Name	J. J. McDaniel
Title	Engineering District 6	Position	Group Supervisor
Date	11-20-64	Company	Socony Mobil Oil Company, Inc.

STATE OF NEW MEXICO		
LAND OFFICE		
TRANSPORTATION		
MINES		
WATER		
FOREST		

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company Socony Mobil Oil Company, Inc.				Address Box 1800, Hobbs, New Mexico			
Lease S14, NDD Unit	Well No. 1	Unit Letter D	Section 31	Township 17 S	Range 35 E		
Date Work Performed 10/19/64	Pool Tobacco		County Lea				

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
 ☒ Casing Test and Cement Job
 ☐ Other (Explain):
- ☐ Plugging
 ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Set 800' of 40# J-55, 1811' of 36# J-55 & 2389' of 32.30# H-40 9 5/8" csg. & 5000'. Cemented w/3475 sx Incor 6% Gel + 100 sx Incor neat cement. Plug down @ 4:50 PM 10/19/64. Cement circ. WOC 24 hrs. Tested 9 5/8" csg. w/1000# for 30 mins. Tested OK.

Witnessed by Earl D. Hughes	Position Drilling Foreman	Company Socony Mobil Oil Company, Inc.
--------------------------------	------------------------------	---

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

DF Elev.	TD	PBTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil Spring	Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by		Name	<i>J. McDaniel</i>
Title	Engineer District 1	Position	Group Supervisor
Date	Oct 30 1964	Company	Socony Mobil Oil Company, Inc.

Centre/vacuum unit)

17-35

Vacuum G-65A

SW/4 : sec 30 Grit

Ref 1

30-17-35	Texaco - C.V. unit # 30	(Inf)	4513 - 4786
30-17-35	Texaco - C.V. unit # 34	(Prod)	4456 - 4662
30-17-35	Texaco - C.V. unit # 35	(Prod)	4110 - 4850

I 175 - R 35 E

W/2 sec 31

31-17-35	Texaco - C.V. unit # 44	Prod	4443 - 4710
31-17-35	Texaco - C.V. unit # 45	Prod	4422 - 4726
31-17-35	Texaco - C.V. unit # 49	Prod	4109 - 4721
31-17-35	Texaco - C.V. unit # 50	Prod	4114 - 4662
31-17-35	Texaco - C.V. unit # 59	Prod	4422 - 4717
31-17-35	Texaco - C.V. unit # 60	Prod	4398 - 4704
31-17-35	Texaco - C.V. unit # 64	Prod	4100 - 4664
31-17-35	Texaco - C.V. unit # 65	Prod	4104 - 4665
31-17-35	Texaco - C.V. unit # 74	Prod	4448 - 4678
31-17-35	Texaco - C.V. unit # 75	Prod	4098 - 4750
31-17-35	Texaco - C.V. unit # 76	Prod	4091 - 4652
31-17-35	Texaco - C.V. unit # 87	Prod	4284 - 4690
31-17-35	Texaco - C.V. unit # 88	Prod	4280 - 4690

18-34

E/2 sec 1

1-18-34	Texaco	C.V. unit # 12	Prod.	4073 - 4690
1-18-34	Texaco	C.V. unit # 13	Prod.	4173 - 4680
- Cont -				

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

January 5, 1979

Continental Oil Company
Box 460
Hobbs, New Mexico

Gentlemen:

After reviewing the schematic diagram of the wellbore of your State H-35 Well No. 9, it appears the well is cased and cemented in such a manner as to contain water injected into the San Andres pay zones.

It will therefore not be necessary to do additional work on the well as required by Order No. R-5530.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

cc: Hobbs
Case File No. 6008

C
O
P
Y

Memo

From

JERRY SEXTON
District Supervisor

To Joe,

Attached is the data on Continental State H-35 in the Vacuum field which Order No. R-5530 required that the well be recemented. It may not need to be recemented for the following reasons:

1. The intermediate casing is set 200' below the lowest perf in the area.
2. A D.V. tool was used in the 5½" casing string and the Glorieta is covered with cement.

Attached: 1. Schematic
2. San Andres perf
3. Casing erports

NEW MEXICO OIL CONSERVATION COMMISSION — HOBBS, NEW MEXICO

FIELD <u>VACUUM ABO</u>	OPERATOR Continental Oil Company	DATE May 3, 1976
LEASE <u>STATE H-35</u>	WELL NO. <u>9</u>	LOCATION <u>UNIT H, SEC 35, T. 17S, R. 31E</u>

11 3/4" casing set at 366 with 450 sx of NEAT cement
Hole size 15" Top of cement SURFACE

8 5/8" casing set at 440 with 600 sx of NEAT cement
Hole size 11" Top of cement 3500'

TOP OF CEMENT IT T 500'
BAKER LOC-SET-PKR @ 9015'

2 3/8" tubing set at 9015'

BAKER MODEL D PKR @ 9550'; 5 Jts. 2 1/4" Tbg @
9712'; GOT SLEEVE (CLOSED) @ 9678'; S.H. @ 9645'

5 1/2" casing set at 10094' with 450 sx of POZ MIX cement
Total Depth 12024' Hole size 7 1/2" Top of cement 5710

17-34

E/2 Dec 35
Vacuum Gb SH

Gb SH
Part

1-35-17-34 - Continental - State H-35 #1	Prod	4132' - 4700'
2-35-17-34 - Continental - State H-35 #2	Prod	4130' - 4744'
3-35-17-34 - Continental - State H-35 #3	Prod	4146' - 4700'
4-35-17-34 - Continental - State H-35 #5	Prod	4149' - 4695'
5-35-17-34 Phillips - M.E. Hole #1	Prod	4482' - 4502'
6-35-17-34 Phillips - M.E. Hole #3	Prod TA	4079' - 4492'
7-35-17-34 Phillips - M.E. Hole #5	Prod	4097' - 4696'
8-35-17-34 Phillips - M.E. Hole #6	Prod	4089' - 4721'
9-35-17-34 - Phillips - M.E. Hole #2	Prod	4566' - 4664'

SECTION 36 All

1-36-17-34 - Amerasia - State VB #1	P#A	
2-36-17-34 - Texaco - C.V. Unit #40	(Prod)	4400' - 4701
3-36-17-34 - Texaco - C.V. Unit #41	(Inj)	4380' - 4710
4-36-17-34 - Texaco - C.V. Unit #42	(Inj)	4364' - 4700
5-36-17-34 - Texaco - C.V. Unit #43	(Inj)	4391' - 4712
6-36-17-34 - Texaco - C.V. Unit #51	(Prod)	4100' - 4667
7-36-17-34 - Texaco - C.V. Unit #52	(Prod)	4556' - 4730'
8-36-17-34 - Texaco - C.V. Unit #53	(Prod)	4094' - 4700
9-36-17-34 - Texaco - C.V. Unit #54	(Prod)	4100' - 4705
10-36-17-34 - Texaco - C.V. Unit #55	(Inj)	4390' - 4708
11-36-17-34 - Texaco - C.V. Unit #56	(Inj)	4383' - 4710
12-36-17-34 - Texaco - C.V. Unit #57	(Inj)	4382' - 4726
13-36-17-34 - Texaco - C.V. Unit #58	(Inj)	4389' - 4716

Cont next page

RECEIVED	
DATE	FILE
LAND OFFICE	LAND OFFICE
TRANSPORTER	OIL
TRANSPORTER	GAS
REGISTRATION OFFICE	REGISTRATION OFFICE
OPERATOR	OPERATOR

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

(Form C-101)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

DEC 13 10 07 AM '63
New Well
Reconnection

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-101 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Hobbs, New Mexico 12-10-63
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Continental Oil Company State H-35, Well No. 9, in SE 1/4 NE 1/4,
(Company or Operator) (Lease)
H Sec. 35, T. 17S, R. 34E, NMPM, Vacuum Wolfcamp Pool
Lea

Please indicate location:

D	G	B	A
E	F	G	H
L	K	J	I
M	N	O	P

1980 FNL & 460 FEL

(FOOTAGE)

Tubing, Casing and Cementing Record

Size	Feet	Sax
11-3/4	385	450
8-5/8	4940	600
5-1/2	10094	450
2-1/16	9600	

County. Date Spudded 10-2-63 Date Drilling Completed 11-26-63
Elevation 4022 Total Depth 10,094 xxx DOD 10,088

Top Oil Pay 9854 Name of Prod. Form. Wolfcamp
PRODUCING INTERVAL - 9604-17, 9622-28, 9716-25, 9728-34, 9744-
Perforations 50, 9854-56, 9860-66, 9980-90, 10,008-50,
and 10,068-74

Open Hole Casing Shoe 10,094 Depth Tubing 9,600

OIL WELL TEST -

Natural Prod. Test: bbls. oil, bbls water in hrs, min. Size
Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of
load oil used): 275 bbls. oil, 12 bbls water in 23 hrs, min. Size 16/64

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: MCF/Day; Hours flowed

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and
sand): Acidized Wolfcamp 1st stage 9854-10,074 w/8000 gals*

Casing Tubing Date first new
Press. - Press. 350 oil run to tanks 12-4-63

Oil Transporter Magnolia Pipe Line Co.

Gas Transporter Phillips Petroleum Co.

Remarks: *Acidized Wolfcamp 2nd stage 9604-9750 w/8,000 gals.

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

Approved: DEC 23 1963 Continental Oil Company
(Company or Operator)

OIL CONSERVATION COMMISSION

By: SIGNED: G. C. JAMESON
(Signature)

Title Assistant District Manager

Send Communications regarding well to:

Name Continental Oil Company

Box 460, Hobbs, New Mexico

Address:

Title
NMOCC-5 SLO File

LAND OFFICE	
TRANSPORTER	
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office on Form C-103 (Rev 3-55))

Name of Company Continental Oil Company		Address Box 460, Hobbs, N. M.	
Lease State H-35	Well No. 9	Unit Letter H	Section 35
Date Work Performed 10-28-63		Pool Vacuum Wolfcamp & Abo	County Lea

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
 ☒ Casing Test and Cement Job
 ☐ Other (Explain):
☐ Plugging
 ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Drilled to 10,094 TD, Ran 307 joints, 10,079' of 5 1/2" OD casing. Casing set at 10,094 and cemented in two stages. First stage cemented w/250 sx. Pozmix "S" 1--1 w/4% gel. Plug down at 3:30 A.M. on 11-27-63. DV tool set at 6916. Cemented 2nd stage thru DV tool w/200 sacks Pozmix 1:1 w/4% gel. Plug down at 8:15 A.M. on 11-28-63. Top of cement 5810 by temperature survey. WOC 36 hours. Tested casing to 1,750# for 30 minutes. Tested O.K.

CORRECTED COPY

Witnessed by R. A. Carlile	Position Drig. Foreman	Company Continental Oil Company
--------------------------------------	----------------------------------	---

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

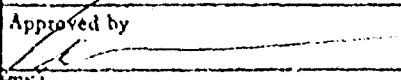
D F Elev.	TD	PBTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

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

Approved by 	Name J. C. Packer
Title District Engineer	Position District Engineer
Date 11-28-63	Company Continental Oil Company

NMOCC (3) SLO ABS FILE

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- 5030
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,
19 77, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this _____ day of _____, 19 77, 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} its 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 ~~as~~ 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 ~~to be drilled~~ ~~should be approved~~ 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.

(7) That the total project ^{area} allowance should be equal to the sum of the basic project ^{area} allowance plus the water injection credit allowance, and said total project ^{area} allowance 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} allowance 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 allowance should be based on the following formula:

$$\text{Water Injection Credit Allowable} = \left(\frac{\text{net water injected}}{\text{basic project area allowable voidage}} - 1 \right) \text{basic project area allowable}$$

and should be calculated as follows:

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

where W_i = Average daily water injection during previous month, project area

W_p = Average daily water production during previous month, project area

BPA = 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 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.

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 ~~gas~~ ^{injected} migration of water from the San Andres formation, ^{formation injection pressure at} ~~into~~ wells offsetting the wells identified on said Exhibit C ~~such injection~~ should be limited to ~~a surface injection pressure no greater than~~ 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-

(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 ^{existing} one 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.

Case No. 6008
Order No. R-

(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.} under (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 affects 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 water 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 ~~appropriate~~ Commission district office ^{at No 665} of the failure

(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 areas 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 allowance, and said project area allowance shall be the sum of the basic project area allowance plus the water injection credit allowance, 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 allowance 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 allowance shall be based on the following formula:

$$\text{Water Injection Credit Allowable} = \left(\frac{\text{net water injected}}{\text{basic project area allowable voidage}} - 1 \right) \text{basic project area allowable}$$

and shall be calculated as follows:

$$\text{Water Injection Credit Allowable} = \left\{ \frac{W_i - W_p}{BPA \left[R - (R - R_{vd}) \right]} - 1 \right\} BPA$$

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
 B_{PAA} = 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., ~~ignore~~ negative numbers derived from application of the above formula shall be ignored.

(8) Can 6008
R-

(14) That the project allowable may be produced from any well within the project area in any proportion provided, however, that ^{any} proration unit^{proration} 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} ~~each well in~~ the Project for the next succeeding month in accordance with these rules. The ^{sum of the} ~~sum of the~~ allowable^s 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 herein-
above designated.

CENTRAL VACUUM UNIT
Authorized Injection Wells

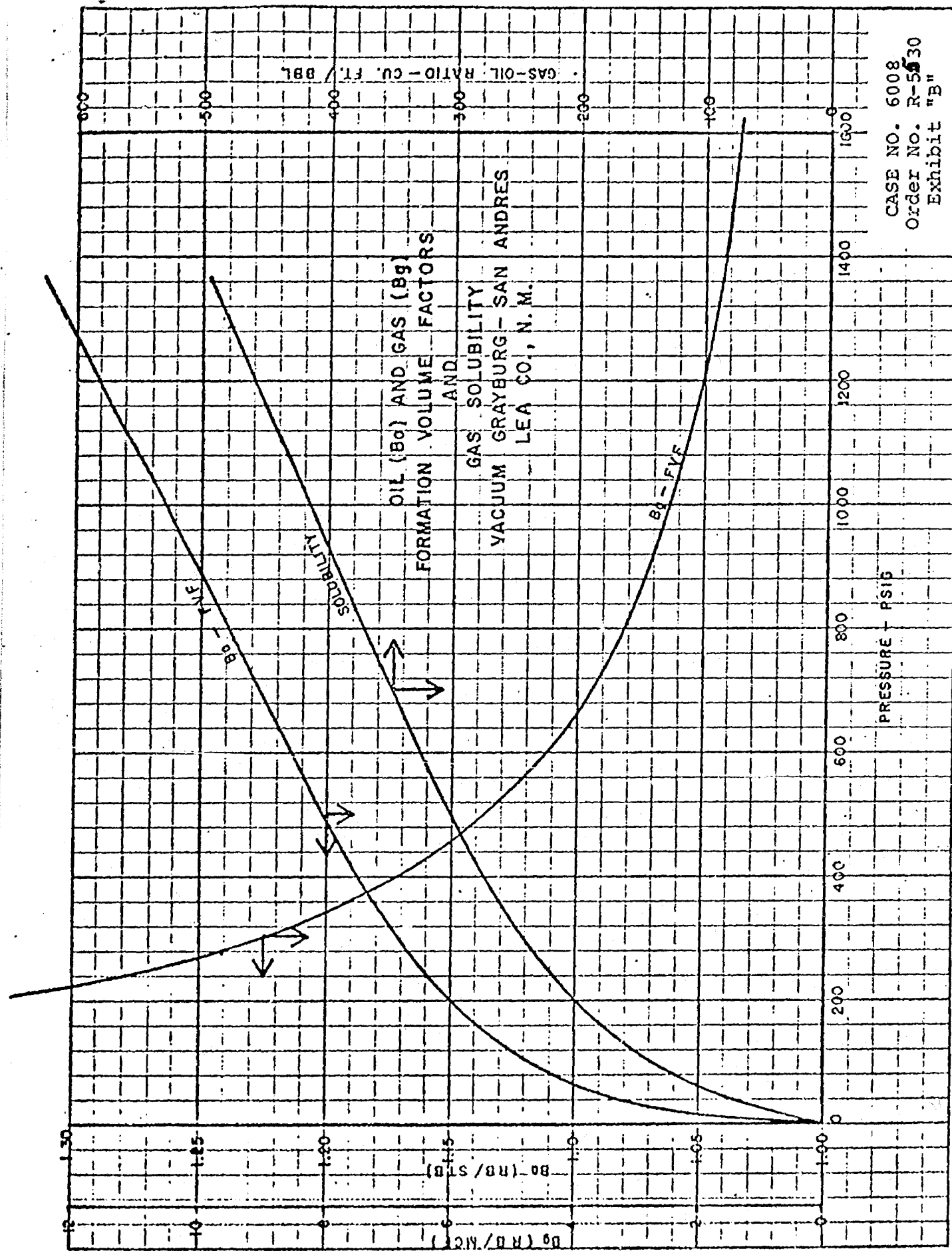
54 new wells to be drilled at the following locations:

WELL NO.	LOCATION	SECTION	TOWNSHIP SOUTH	RANGE EAST
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
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 Leasehold "B" No. 7 located as follows:

131	2119' FNL & 918' FWL	7	18	35
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Case No. 6008
Order No. R-6630
Exhibit "A"



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

<u>Operator</u>	<u>Lease</u>	<u>Well No</u>	<u>U/t</u>	<u>Sec</u>	<u>Top</u>	<u>Rge</u>
Continental Oil Company	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 Company	Warn State A/c 2	6	K	6	18S	35E
Marathon Oil Company	Warn State A/c 2	10	K	6	18S	35E
Mobil Oil Corporation	Bridges State	11	F	25	17S	34E
Mobil Oil Corporation	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"

#87 2130 S
660 W

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 6008

APPLICATION

COMES NOW Texaco, Inc., by White, Koch, Kelly & McCarthy and moves the Commission for its order approving a pressure maintenance project in the Central Vacuum Unit, Lea County, New Mexico located on lands more particularly described as follows:

Township 17 South, Range 34 East
Section 25: SE/4 NE/4 and S/2

Township 17 South, Range 35 East
Section 30: All
Section 31: N/2, SW/4 and SW/4 SE/4

Township 18 South, Range 34 East
Section 12: N/2 NE/4

Township 18 South, Range 35 East
Section 6: All
Section 7: NW/4 and NW/4 NE/4

And as cause therefore respectfully shows the following:

1. Attached hereto marked Exhibit "A" is a plat showing the location of proposed injection wells and, in addition, the location of an existing producing well to be converted into an injection well, designated as well number 131 (Sun Oil Company "B" Lee State number 7) located in the southwest quarter of the northwest quarter of Section 7, Township 18 South, Range 35 East, N.M.P.M.

2. Attached hereto marked Exhibit "B" and incorporated herein by reference is a plat showing all wells within a radius of two miles from the proposed injection wells and a formation from which the wells are producing or have produced. In addition, the names of the lessees of off-setting acreage within a two miles radius is indicated.

3. Attached hereto as Exhibit "C" is a diagramatic sketch of the proposed injection wells showing the casing strings, including the diameters and setting depths, quantity use and tops of cement, the perforated and open hole intervals, tubing strings, including diameters and setting depths and the type and location of packers.

4. Attached hereto as Exhibit "E" is a diagramatic sketch of the Sun Oil Company "B" Lease State No. 7 indicating the proposed conversion of the well to an injection well.

5. The applicant proposes to inject fresh water from the Ogallala formation into the wells at the rate of 900 barrels per day per well to be injected into the producing formation, specifically the Grayburg-San Andres formation identified between the depths of 3,858 feet (plus 144 feet sub-sea) and 4,858 (minus 856 feet sub-sea) on the Welox Acoustic Felocity Log run on November 15, 1963 in Texaco's State of New Mexico "O" (NPC-1) Well No. 23, located in the southwest quarter of the southeast quarter of Section 36, Township 17 South, Range 34 East, Lea County, New Mexico, and all sub-surface points throughout the unit area correlative to the identified depths.

WHEREFORE applicant prays that the Commission determine that a sufficient showing has been made of the conditions required by Rule 701; that the Commission make findings to that effect and promulgate its Order permitting pressure maintenance project as proposed by the applicant in the Central Vacuum Unit, Lea County, New Mexico.

Respectfully submitted,

WHITE, KOCH, KELLY & MCCARTHY

By:

Kenneth Bateman
KENNETH BATEMAN

Attorneys for Applicant -
Texaco, Inc.

P. O. Box 787

Santa Fe, New Mexico 87501

- CASE 6011: Application of Tenneco Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blanco Mesaverde and Basin Dakota production in the wellbores of its Jicarilla "A" Well No. 1 in Unit 1 of Section 18, "B" Well No. 8 in Unit B of Section 15, "C" Wells Nos. 4, 5, 6, 7, and 8, located, respectively, in Units F and I of Section 24, F of Section 14, and M and E of Section 13, all in Township 26 North, Range 5 West, Rio Arriba County, New Mexico.
- CASE 6012: Application of Tenneco Oil Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Strawn formation through the perforated interval from 11,174 feet to 11,236 feet in its Jones Federal Well No. 1, located in Unit K of Section 23, Township 19 South, Range 31 East, Eddy County, New Mexico.
- CASE 6013: Application of HNG Oil Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the S/2 of Section 9, Township 24 South, Range 28 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6014: Application of Atlantic Richfield Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 1980 feet from the South line and 330 feet from the West line of Section 6, Township 21 South, Range 27 East, Burton Flat-Morrow Gas Pool, Eddy County, New Mexico, the W/2 of said Section 6 to be dedicated to the well.
- CASE 6015: Application of Atlantic Richfield Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 1980 feet from the South line and 660 feet from the East line of Section 32, Township 20 South, Range 27 East, Avalon-Morrow Gas Pool, Eddy County, New Mexico, the S/2 of said Section 32 to be dedicated to the well.

Dockets Nos. 27-77 and 28-77 are tentatively set for hearing on August 31 and September 14, 1977. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 17, 1977

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for September, 1977, from fifteen prorated pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
- (2) Consideration of the allowable production of gas for September, 1977, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

CASE 6001: (Continued from August 3, 1977, Examiner Hearing)

Application of Mesa Petroleum Co. for an exception to Order No. R-5459, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the provisions of Order No. R-5459 to exclude its Primo Well No. 1-A located in Unit D of Section 6, Township 31 North, Range 10 West, San Juan County, New Mexico, from the vertical limits of the Blanco-Mesaverde Pool as defined by said order.

CASE 6002: Application of Gulf Energy and Minerals Company for a non-standard proration unit, simultaneous dedication and unorthodox locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 600-acre non-standard proration unit comprising all of Section 4 except the NE/4 NW/4 thereof, Township 22 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be simultaneously dedicated to its J. F. Janda Wells Nos. 7 located in Unit K and Nos. 12 and 13, at unorthodox locations in Units O and P, respectively, of said Section 4.

CASE 6003: Application of Texaco Inc. for a pressure maintenance project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project on its Central Vacuum Unit Area, Vacuum.Grayburg-San Andres Pool, Lea County, New Mexico, by the injection of water into the Grayburg-San Andres formation through 55 wells.

CASE 6009: Application of Morris R. Antweil for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the S/2 of Section 29, Township 18 South, Range 25 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5992: (Readvertised)

Application of Burleson & Huff for compulsory pooling, a non-standard unit, and an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the SE/4 NW/4 of Section 14, Township 24 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to form a non-standard 40-acre gas proration unit to be dedicated to applicant's Cooper Well No. 1 at an unorthodox location 2310 feet from the North and West lines of said Section 14, or in the alternative to drill another well at a standard location. Also to be considered will be the cost of recompletion or of drilling and completing the unit well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in recompleting or drilling said well.

CASE 6010: Application of Manana Gas Inc. for compulsory pooling and an unorthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 13, Township 30 North, Range 12 West, Basin-Dakota Pool, San Juan County, New Mexico, to be dedicated to a well to be drilled at an unorthodox location 840 feet from the South line and 1400 feet from the West line of said Section 13. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

Mobil Oil Corporation

THREE GREENWAY PLAZA EAST - SUITE 800
HOUSTON, TEXAS 77046

January 23, 1978

New Mexico Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey
Secretary Director

7.01
MOBIL OIL CORPORATION STATE "DD"
WELL NO. 1 - CENTRAL VACUUM
UNIT AREA, VACUUM-GRAYBURG-
SAN ANDRES POOL NMOCC
ORDER NO. R-5530, EXHIBIT "C"

Case 6008

Gentlemen:

The captioned well is listed in your Exhibit "C", NMOCC Order No. R-5530 as a well completed in such a manner that it might serve as a channel for injected water to migrate from the San Andres Pay to other formations, or to the surface.

Please find attached a diagrammatic wellbore sketch of Mobil's State "DD" #1, in the Vacuum North Abo Field, Lea County, New Mexico.

The wellbore sketch shows the cement behind the 9-5/8" casing circulated to the surface. The San Andres pay to be flooded is 4358'-4668'. The bottom of this pay is 332' above the 9-5/8" casing shoe. The formation below this pay is tight, with only a few streaked intervals of porosity down to the top of the Glorietta at 5900'. Considering the distance from the bottom of the flooded pay to the casing shoe, and the lack of consistent porosity through that interval, we feel that this wellbore will not serve as an avenue of escape of injected water, and needs no remedial work.

Yours very truly,

J. A. Morris

J. A. Morris
Regulatory Engineering Supervisor

HFWeaver/dah

NMOCC has reviewed your data and concur with your opinion.

SIGNED

Joe D. Ramey
Secretary Director NMOCC

FIELD	Vacuum North Abo	OPERATOR	Admiral Oil Corp.	DATE	5-10-74
LEASE	State DD	WELL NO.	1	LOCATION	D-31-17S-35E

$13\frac{3}{8}$ " casing set at 370 ' with 350 sx of Incor Neat cement
Hole size $17\frac{1}{2}$ " cement circ.

} San Andres pay 4358'-4663'

$9\frac{5}{8}$ " casing set at 5000 ' with 3575 sx of Incor Neat cement
Hole size $12\frac{1}{4}$ " cement circ.

5660' Cement top (Temp Survey)

$2\frac{7}{8}$ " tubing to 9314' ————— Glorieta top 5900'

Abo Perfs 9287'-9320'

— 9390' PBTD

— 9400' CIBP + 10' of Hydromite

Wolfcamp Perfs 9875'-10019'

— 10033

— 10043' CIBP + 10' of Hydromite

Penn Perfs 10,088'-10,175'

— 10,239'

— 10,250' CIBP + 11' of Hydromite

Penn Perfs 10,479'-10,521'

35ts $7\frac{1}{2}$ " casing set at 10553 ' with 1520 sx of Tr. Lite-White cement
on top Total Depth 10,553 ' Hole size $8\frac{3}{4}$ "

