

Section 101. 1 gas quad of Warren Unit well
#10, 28-20S-38E.

Case No.

1610

Application, Transcript,
Small Exhibits, Etc.

Rock Island Oil & Refining Co., Inc.

221 WEST DOUGLAS
WICHITA 2, KANSAS

December 1, 1959

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is a report on operations under the above order.
As of today:

Wills A-1 - Cleaning out at 3290'.
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 60 b/d at 400#.
A-7 - Injecting 70 b/d at 400#.
A-8 - Injecting 129 b/d at 140#.
A-9 - Injecting 74 b/d at 400#.
B-1 - Testing production, makes only water.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.



C. C. Chapin

/smc



Rock Island Oil & Refining Co., Inc.

AM 5-5674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

March 17, 1961

New Mexico Oil Conservation Commission
Santa Fe
New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is the February report on operations under the
above order:

PRODUCTION

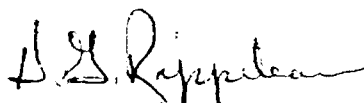
<u>Well</u>	<u>BO/D</u>	<u>BW/D</u>
Wills A-1	1	0
A-2	5	0
A-3	27	0
A-4	10	0
A-5	30	112
Wills B-1	6 bf/d	2% oil

INJECTION

<u>Well</u>	<u>BW/D</u>	<u>Pressure</u>
Wills A-6	106	680#
A-7	66	680#
A-8	200	425#
A-9	139	680#
A-10	96	680#
A-11	90	680#
A-12	57	680#

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.


H. G. Rippeteau

/pam



File

Rock Island Oil & Refining Co., Inc.

AM 5-8674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

January 25, 1961

New Mexico Oil Conservation Commission
Santa Fe
New Mexico

Re: Willis Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is the December report on operations under
the above order:

Willis A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 130 b/d at 400# acidized
A-7 - Injecting 100 b/d at 680# acidized
A-8 - Injecting 202 b/d at 340#
A-9 - Injecting 165 b/d at 680#
A-10 - Injecting 110 b/d at 680#
A-11 - Injecting 120 b/d at 690# acidized
A-12 - Injection well - acidized - putting on inj.
B-1 - Producing about 5 b/d - 2% oil

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

H. G. Rappaport
H. G. Rappaport



Rock Island Oil & Refining Co., Inc.

AM 5-5674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

February 17, 1961

New Mexico Oil Conservation Commission
Santa Fe
New Mexico

Re: Mills Flood
35-26-37
Lea County, New Mexico
Case No. 1010, Order No. R-1352

Gentlemen:

Following is the January report on operations under the above order:

<u>Producing</u>		<u>Injection</u>		
<u>well</u>	<u>BO/D</u>	<u>well</u>	<u>BW/D</u>	<u>Pressure</u>
Mills A-1	0	Mills A-6	140	680#
A-2	15	A-7	32	680#
A-3	22	A-8	193	370#
A-4	17	A-9	125	680#
A-5	17	A-10	100	680#
Mills B-1	Producing about 5 BW/d - 2% oil	A-11	99	680#
		A-12	55	680#

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

H. G. Rippel
H. G. Rippel

Apac



Rock Island Oil & Refining Co., Inc.

AM 5-8674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

November 11, 1960

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is the October report on operations under
the above order.

Wills A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 141 b/d at 670#
A-7 - Injecting 78 b/d at 700#
A-8 - Injecting 220 b/d at 290#
A-9 - Injecting 203 b/d at 660#
A-10- Injecting 170 b/d at 680#
A-11- Injecting 95 b/d at 690#
B-1 - Producing about 7 bf/d - 3% oil

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

H. G. Rippeteau
H. G. Rippeteau

/smc



Rock Island Oil & Refining Co., Inc.

AM 5-8674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

April 4, 1960

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is a report on operations under the above order.

Wills A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 67 b/d at 700#.
A-7 - Injecting 118 b/d at 700#.
A-8 - Injecting 185 b/d at 340#.
A-9 - Injecting 190 b/d at 700#.
A-10- Waiting to perforate and laying injection lines.
A-11- Waiting to perforate and laying injection lines.
B-1 - Clean out, put on pump, makes only water.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.


H. G. Rippeteau

/smc

AM 5-5874 • 321 WEST DOUGLAS
WICHITA 2, KANSAS



1960 SEP 15 PM 1:24

Rock Island Oil & Refining Co., Inc.

AM 5-5874 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

September 14, 1960

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is the August report on operations under the
above order.

Wills A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 170 b/d at 640#.
A-7 - Injecting 128 b/d at 600#.
A-8 - Injecting 193 b/d at 280#.
A-9 - Injecting 182 b/d at 600#.
A-10- Injecting 171 b/d at 640#.
A-11- Injecting 115 b/d at 700#.
B-1 - Producing about 7 bf/d - 2% oil.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

H. G. Rippeteau
H. G. Rippeteau

/smc



Rock Island Oil & Refining Co., Inc.

AM 5-5674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

June 2, 1960

X

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is the May report on operations under the
above order.

Wills A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 62 b/d at 700#.
A-7 - Injecting 111 b/d at 700#.
A-8 - Injecting 215 b/d at 290#.
A-9 - Injecting 186 b/d at 700#.
A-10- Injecting 189 b/d at 640#.
A-11 -Injecting 78 b/d at 700#.
B-1 - Producing about 9 bf/d - 1% oil.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

H. G. Rippeteau
H. G. Rippeteau

/smc

7-1 OFFICE 000



15th AUG 17 AM 01 22

Rock Island Oil & Refining Co., Inc.

AM 5-5674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

August 15, 1960

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is the July report on operations under the
above order.

Wills A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 183 b/d at 700#.
A-7 - Injecting 71 b/d at 700#.
A-8 - Injecting 199 b/d at 300#.
A-9 - Injecting 153 b/d at 700#.
A-10- Injecting 185 b/d at 680#.
A-11- Injecting 43 b/d at 700#.
B-1 - Producing about 7 bf/d - 2% oil.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

A handwritten signature in dark ink, appearing to read "H. G. Rippeteau".
H. G. Rippeteau

/smc



Rock Island Oil & Refining Co., Inc.

AM 5-5674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

July 8, 1960

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is the June report on operations under the
above order.

Wills A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 187 b/d at 700#. *2000*
A-7 - Injecting 70 b/d at 700#. *2000*
A-8 - Injecting 179 b/d at 280#. *2000*
A-9 - Injecting 161 b/d at 700#. *2000*
A-10 - Injecting 194 b/d at 680#. *2000*
A-11 - Injecting 51 b/d at 700#. *2000*
B-1 - Producing about 7 bf/d - 2% oil.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

H. G. Rippeteau

/smc



Rock Island Oil & Refining Co., Inc.

321 WEST DOUGLAS
WICHITA 2, KANSAS

February 4, 1960

F 1010

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

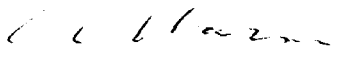
Gentlemen:

Following is a report on operations under the above order.
As of February 1:

Wills A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 129 b/d at 700#.
A-7 - Injecting 76 b/d at 700#.
A-8 - Injecting 169 b/d at 320#.
A-9 - Injecting 151 b/d at 700#.
R-1 - Testing production. Makes only a scum of oil.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.


C. C. Chapin

/smc

Rock Island Oil & Refining Co., Inc.

321 WEST DOUGLAS
WICHITA 2, KANSAS

October 2, 1959

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is a report on operations under the above order.
As of today:

Wills A-1 - Cleaning out at 3165'.
A-2 - Building pads for pumping unit.
A-3 - Producing.
A-4 - Building pumping unit pads.
A-5 - Producing.
A-6 - Ready to perforate.
A-7 - Ready to perforate.
A-8 - Ready to perforate.
A-9 - Casing run.
B-1 - Testing production.
Power Distribution System is 90% completed.
Water Plant is being built.
Water Supply Well has pump installed and ready to operate.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

C. C. Chapin
C. C. Chapin

/smc

Rock Island Oil & Refining Co., Inc.

RECEIVED PM 1:06

REFINERS OF



PETROLEUM

321 WEST DOUGLAS
WICHITA 2, KANSAS

September 1, 1959

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is a report on operations under the above order:

- (1) Water Supply well is waiting for installation of pump.
- (2) Well A-2 is cleaning out with cable tools at 3248'.
- (3) Well A-3 is ready to put on production.
- (4) Well A-4 is cleaning out at 3288'.
- (5) Well A-5 has been on production about 3 weeks.
- (6) Well A-6 is an injection well. It has casing set and ready to perforate for injection.
- (7) Well A-7 (Injection Well) is drilling at 354'.
- (8) Well B-1 cleaning out job is completed and ready to put on production.
- (9) Electric Power Distribution System is about 30% completed.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

C. C. Chapin

/snc

APPLICATION FOR WATER FLOODING
OF PRODUCING FORMATION

Circle 1610

To: New Mexico Oil Conservation Commission
Santa Fe, New Mexico

February 10, 1959

Application for an Order to include: (1) Authority of Install and Operate a Flood, (2) Granting Full Capacity Flood Allowable and (3) Exception to Spacing Rules for Proposed Injection Wells Nos. 6, 7, 9, 10 and 11, which locations are unorthodox, is herein submitted in triplicate as follows:

1. Name of Flood: Wills
Name of Field: Rhodes
Name of Lease Owner: Wood River Oil & Refining Co., Inc.
321 West Douglas, Wichita, Kansas

2. Description of Leases:

<u>U.S. SERIAL NO.</u>	<u>LEGAL DESCRIPTION</u>	<u>DATE OF LEASE</u>	<u>ACRES</u>
LC 050107 (b)	Lot 1, Sec. 34	12-19-38	32.74
LC 050107 (a)	NE/4 NE/4, Sec. 34; Lots 2, 3, 4; N/2 NW/4; NW/4 NE/4 Sec. 35 All in T-26S, R-37E Lea County, New Mexico	12-1-58	257.81

3. Production map attached as Exhibit "A" shows wells and leases in the area to be flooded. All well location measurements and location units are shown on Exhibit "B".

4. It is desired to flood the lower Yates (Penn Bennett) formation through perforations which range in depths from 3235' to 3310'.

Injection is desired to be made into well No's. 6, 7, 8, 9, 10 and 11 as shown on Exhibit "A".

5. Subsea Tops of producing formation are shown by (-) data on Exhibit "A".

6. Casing program for injection wells will be:

<u>SIZE</u>	<u>TOTAL LENGTH</u>	<u>SEAT DEPTH</u>	<u>GRADE</u>	<u>CEMENTED OR MUDDED</u>	<u>FOOTAGE BEHIND CEMENT</u>	<u>NUMBER SACKS CEMENT USED</u>
8 5/8	600'	600'	New	Cemented	600'	325
5 1/2	3370'	3370'	New	Cemented	600' and mudded to surface	125

7. Liquid desired to be used for flooding is fresh water produced from a depth of about 550'. Estimated water requirements are 1200 b/d minimum to 2000 b/d maximum. Injection water is to be introduced at the well head under 400 pounds minimum pressure to 1600 pounds maximum pressure.

8. A copy of this Application has been sent to:

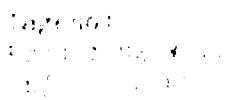
<u>NAME</u>	<u>ADDRESS</u>	<u>HOW SENT</u>
Bureau of Land Management	Santa Fe, N. M.	Registered Mail
John A. Anderson, USGS	Box 6721, Roswell, N. M.	Registered Mail
Harry Dupont, USGS	Box 1838, Hobbs, N. M.	Registered Mail
The Texas Co.	Midland, Texas	Registered Mail
The Texas Co.	Hobbs, N. M.	Registered Mail

Respectfully submitted,

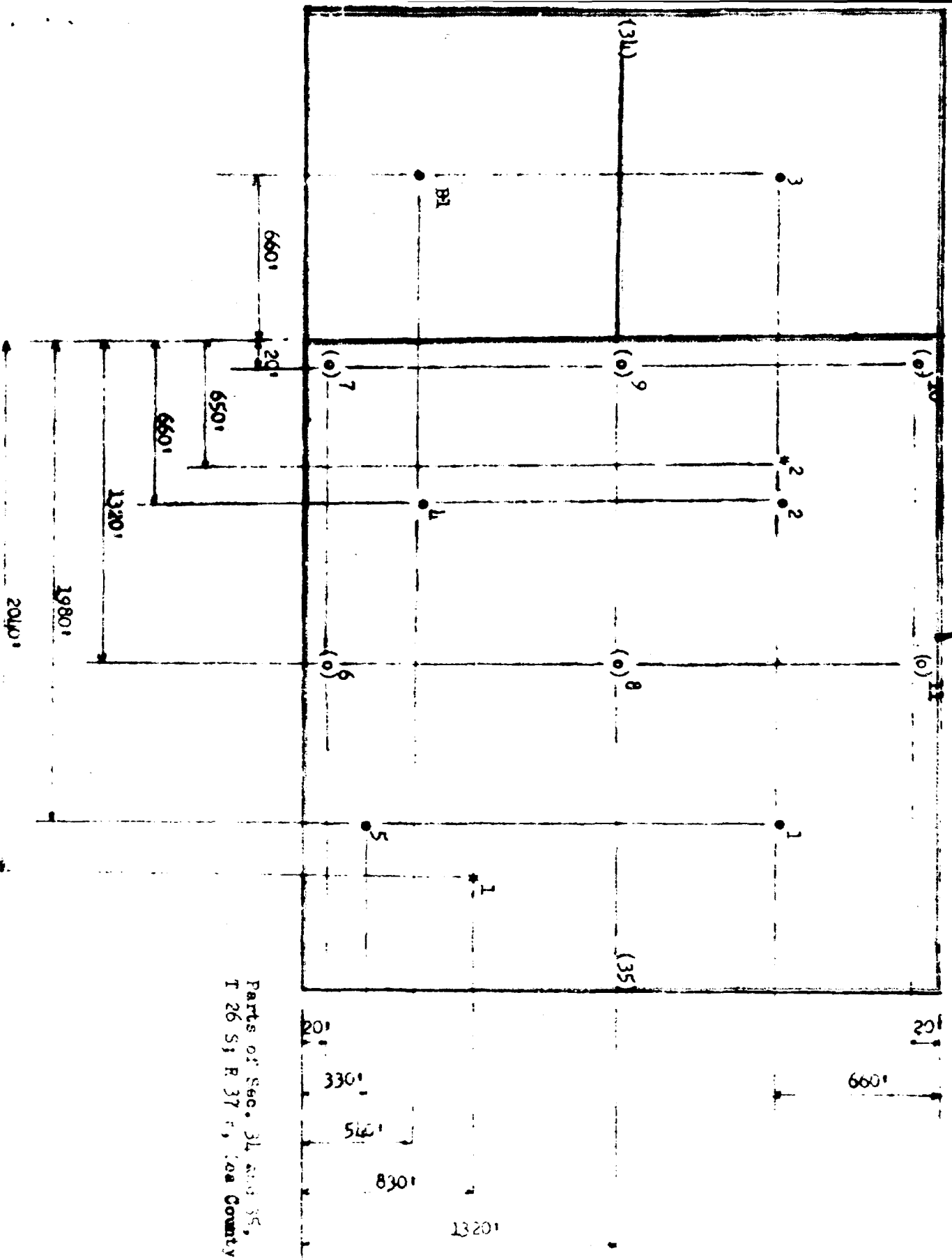
WOOD RIVER OIL & REFINING CO., INC.

BY *G. S. Chapin*
G. S. Chapin

PLAT SHOWING PARTS OF
RHODES FIELD IN LEA COUNTY, NEW MEXICO AND
NORTH SCARBOROUGH FIELD IN WINKLER COUNTY, TEXAS



Winkler County, Texas
 1914, 1922 & 1930



Parts of Sec. 34 and 35,
T 26 S, R 37 E, 10a County.

LOCATION OF WELLS			
Well No.	Footage from Line of Sec. 35	Footage from W Line of Sec. 36	Footage from E Line of Sec. 37
1	640 FNL	1940	660
2	640 FNL	660	660
3	540 FSL	660	660
4	340 FSL	1940	660
5	20 FSL	1940	660
6	20 FSL	20	660
7	20 FSL	20	660
8	1320 FSL	1940	660
9	1320 FSL	20	660
10	1320 FSL	20	660
11	20 FNL	1940	660
12	20 FNL	1940	660
13	660 FNL	660	660
14	540 FSL	660	660
15	660 FNL	660	660
16	540 FSL	660	660
17	660 FNL	660	660
18	540 FSL	660	660
19	660 FNL	660	660
20	540 FSL	660	660
21	660 FNL	660	660
22	540 FSL	660	660
23	660 FNL	660	660
24	540 FSL	660	660
25	660 FNL	660	660
26	540 FSL	660	660
27	660 FNL	660	660
28	540 FSL	660	660
29	660 FNL	660	660
30	540 FSL	660	660
31	660 FNL	660	660
32	540 FSL	660	660
33	660 FNL	660	660
34	540 FSL	660	660
35	660 FNL	660	660
36	540 FSL	660	660
37	660 FNL	660	660
38	540 FSL	660	660
39	660 FNL	660	660
40	540 FSL	660	660
41	660 FNL	660	660
42	540 FSL	660	660
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91	660 FNL	660	660
92	540 FSL	660	660
93	660 FNL	660	660
94	540 FSL	660	660
95	660 FNL	660	660
96	540 FSL	660	660
97	660 FNL	660	660
98	540 FSL	660	660
99	660 FNL	660	660
100	540 FSL	660	660

Rock Island Oil & Refining Co., Inc.

321 WEST DOUGLAS
WICHITA 2, KANSAS

November 5, 1959

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is a report on operations under the above order.
As of today:

Wills A-1 - Cleaning out at 3190'.
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Waiting on injection water.
A-7 - Waiting on injection water.
A-8 - Waiting on injection water.
A-9 - Waiting on injection water.
B-1 - Testing production, makes only water.
We intend to put this flood into operation November 6.

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.



C. C. Chapin

/smc



Case 1616

Wood River Oil & Refining Co., Inc. *if will be on*
WR
notified
11, 1959
11, 1959

Petroleum Products

321 WEST DOUGLAS WICHITA, KANSAS

February 10, 1959

PRODUCTION DEPARTMENT
C. C. CHAPIN, MANAGER

New Mexico Oil Conservation Commission
Santa Fe
New Mexico

Re: Wills Flood

Gentlemen:

Enclosed, in triplicate, is our Application pertaining to the above flood.

We trust you will place this on your list for the March Hearing.

Yours truly,

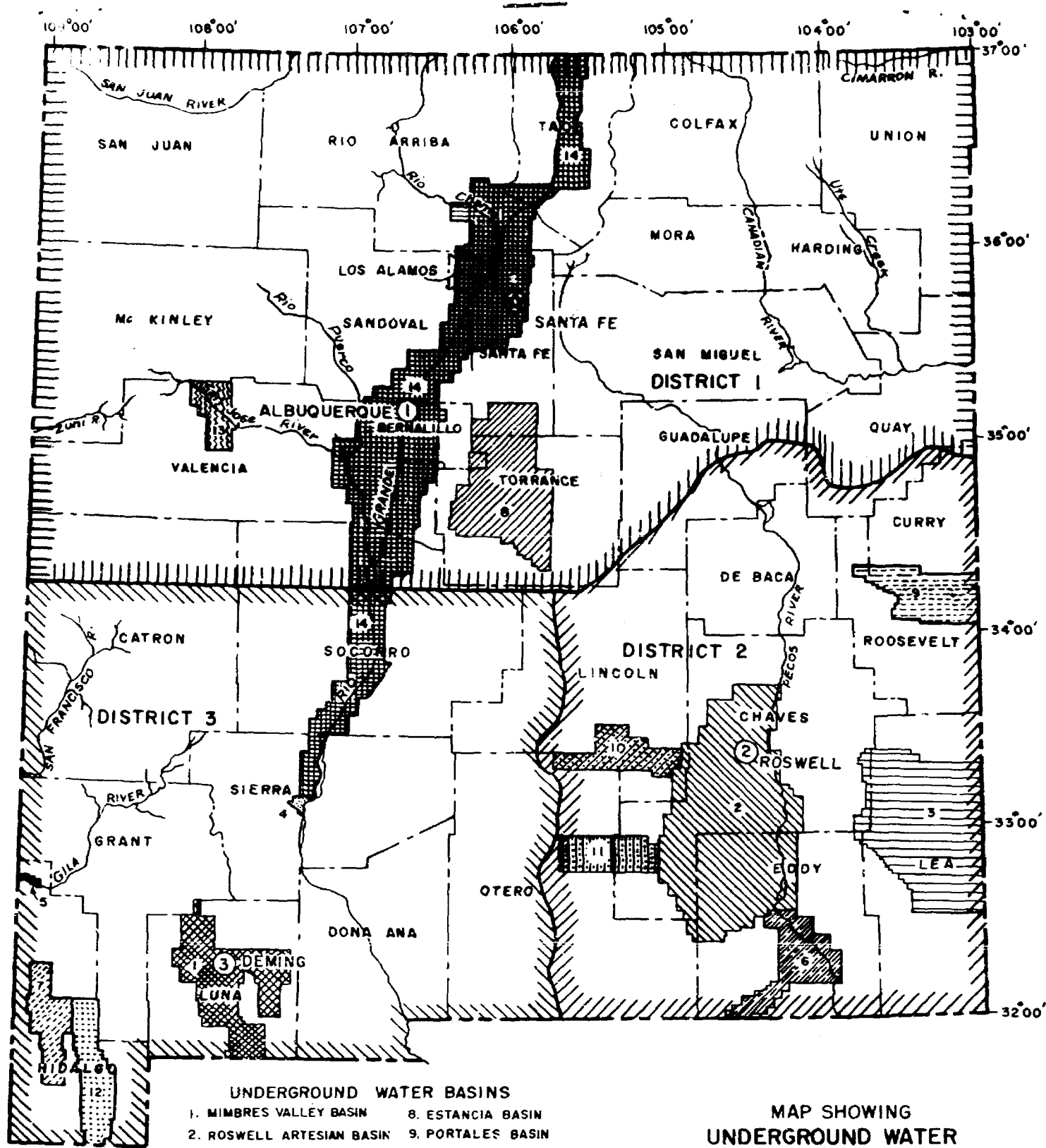
WOOD RIVER OIL & REFINING CO., INC.

C. C. Chapin
C. C. Chapin

Enclosures

cc: Bureau of Land Management, Santa Fe, New Mexico
United States Geological Survey, Roswell, New Mexico
United States Geological Survey, Hobbs, New Mexico
The Texas Co., Midland, Texas
The Texas Co., Hobbs, New Mexico
Thomas F. McKenna, Santa Fe, New Mexico
Hiram Keith, Kermit, Texas

11, 1959
2-25
EST



UNDERGROUND WATER BASINS

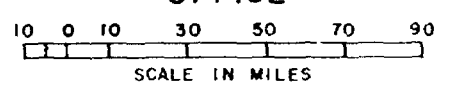
- | | |
|---------------------------|-------------------------|
| 1. MIMBRES VALLEY BASIN | 8. ESTANCIA BASIN |
| 2. ROSWELL ARTESIAN BASIN | 9. PORTALES BASIN |
| 3. LEA COUNTY BASIN | 10. RONDO BASIN |
| 4. HOT SPRINGS BASIN | 11. PENASCO BASIN |
| 5. VIRDEN VALLEY BASIN | 12. PLAYAS VALLEY BASIN |
| 6. CARLSBAD BASIN | 13. BLUEWATER BASIN |
| 7. ANIMAS VALLEY BASIN | 14. RIO GRANDE BASIN |

MAIN OFFICE
SANTA FE

DISTRICT OFFICES

- ① ALBUQUERQUE
- ② ROSWELL
- ③ DEMING

**MAP SHOWING
UNDERGROUND WATER
DISTRICTS
OF THE
STATE ENGINEER
OFFICE**



COMPILED BY: F. E. IRBY
DRAWN BY: J. J. FOX

10121
5/16

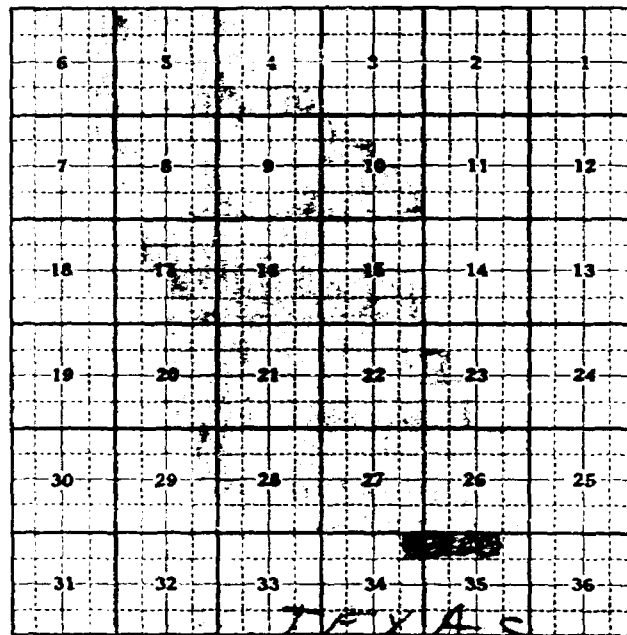
FEDERAL ABSTRACT CO.

Name

Address

Ph.

Remarks:



T R State
or County

DOMESTIC SERVICE	
Check the class of service desired; otherwise this message will be sent as a fast telegram	
TELEGRAM	
DAY LETTER	
NIGHT LETTER	

WESTERN UNION TELEGRAM

1206 (4-33)

W. P. MARSHALL, PRESIDENT

INTERNATIONAL SERVICE	
Check the class of service desired; otherwise the message will be sent at the full rate	
FULL RATE	
LETTER TELEGRAM	
SHORE SHIP	

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED
	COLLECT			10:00 a.m.

Send the following message, subject to the terms on back hereof, which are hereby agreed to

FEBRUARY 13, 1959

G. C. CHAPIN
WOOD RIVER OIL & REFINING CO.
321 WEST DOUGLAS
WICHITA, KANSAS

YOUR APPLICATION PERTAINING TO WILLS FLOOD SCHEDULED
FOR MARCH 11TH EXAMINER HEARING.

A. L. PORTER, JR.
OIL CONSERVATION COMMISSION

Case 1610

100

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for confirmation. In this case half the unprinted message rate is charged in addition. If a message is not indicated on its face, this is an unprinted message and paid for as such, in addition when ordered it is agreed between the sender of the message and the Telegram Company as follows:

1. The Telegraph Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the unrequested message rate beyond the sum of five hundred dollars, nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for the standard rate beyond the sum of five hundred dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines.

2. In any event the Telegraph Company shall not be liable for damages for non-receipt or delays in the transmission or delivery, or for the non-receipt, of any message, whether caused by the negligence of the Company or otherwise, beyond the actual value of the message, in any event the sum of five thousand dollars, at which sum of such damage the Company represents that the message is valued, unless a greater value is stated in writing by the sender before the time the message is tendered for transmission, and unless the repeated-message rate is paid or agreed to be paid and an additional charge is made to the extent of such percentage of the amount by which such valuation shall exceed five thousand dollars.

3. The Telegraph Company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company, when necessary, to reach its destination.

4. The applicable tariff charges on a message destined to any point in the continental United States listed in the Telegraph Company's Directory of Stations cover its delivery within the established city or community limits of the destination point. By special arrangement and to points not listed in the Telegraph Company's Directory of Stations, it is possible to obtain delivery to the residence of the addressee or to the office of the addressee, but such delivery is not included in the charges shown in the Directory of Stations. It is understood that the addressee is responsible for the collection of any additional charges from the addressee and for payment of such additional charges if it is not collected from the addressee.

[illegible]

6. The Telegram Company will not be liable for damages or statutory penalties when the claim is not presented in writing to the Telegram Company, not within sixty days after the message is sent with the Telegram Company for transmission in the case of a message between a point within the United States except in the case of a message in Texas, or between a point in the United States on the one hand and a point in Alaska, Canada, Mexico, or St. Pierre-Miquelon Islands on the other, and not within ninety days after the message is sent with the Telegram Company for transmission in the case of a message between a point in the United States and a point in Alaska, Canada, Mexico, or St. Pierre-Miquelon Islands, and not within ninety days after the message is sent with the Telegram Company for transmission in the case of a message between a point in the United States and a foreign or overseas point, under the special provisions of this paragraph provided, however, that this condition shall not apply to claims for damages or overcharges within the purview of Section 1103 of the Communications Act of 1934 as amended.

7. It is agreed that in any action by the Telegraph Company to recover the tolls for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by consistent evidence.

8. Special terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.

9. No employee of the Telegraph Company is authorized to vary the foregoing.

454

CLASSES OF SERVICE

DOMESTIC SERVICES

TELEGRAM

The fastest domestic service.

DAY LETTER (DL)

A deferred sales-tax service, at low rates

NIGHT LETTER (NL)

Economical overnight service. Accepted up to 2 A. M. for delivery the following morning. At rates lower than the Telegram or Day Letter rates.

INTERNATIONAL SERVICES

FULL RATE (FR)

The fastest overseas service. May be written in code, cipher, or in any language expressed in Roman letters.

LETTER TELEGRAM (LT)

For overnight plain-language messages, at half-rate. Minimum charge for 22 words applies.

SHIP RADIOGRAM

For discussion to and from ship at sea

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION TELEGRAM

W. P. MARSHALL, President

SYMBOLS

DL = Day Letter

NL = Night Letter

LT = International Letter Telegram

1201

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

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NEW MEXICO OIL CONSERVATION COMMISSION=

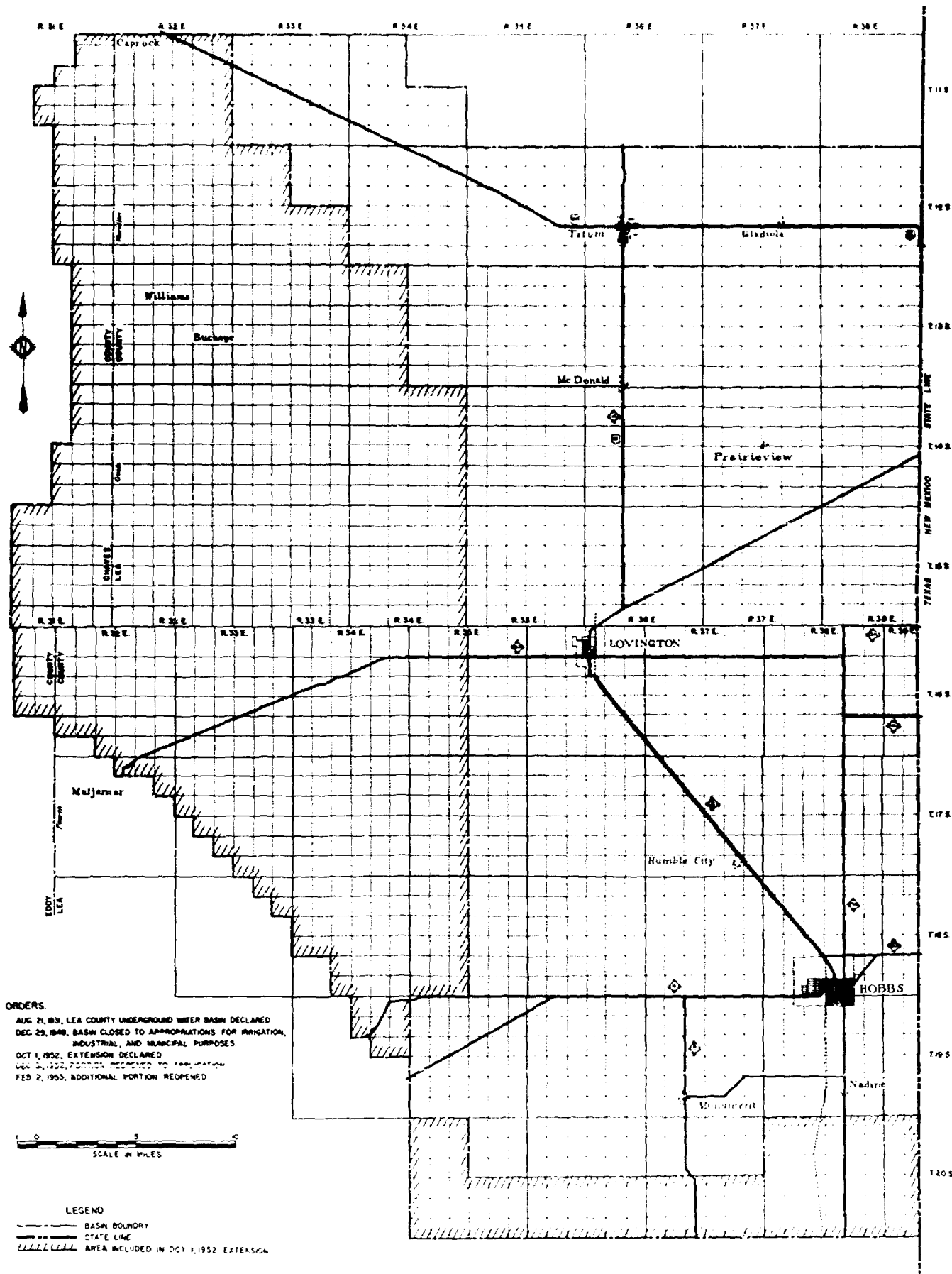
SANTA FE NMEX=

WOULD YOU KINDLY WIRE US COLLECT IF OUR APPLICATION
DATED FEBRUARY 10 PERTAINING TO WILLS FLOOD IN
SECTIONS 34 AND 35-26-37 LEA COUNTY HAS BEEN RECEIVED
AND IF WILL BE SCHEDULED FOR NEXT COMMISSION HEARING
THANKS=

WOOD RIVER OIL & REFINING CO INC C C CHAPIN==

10 34 35-26-37=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE



ORDERS.
 AUG 21, 1931, LEA COUNTY UNDERGROUND WATER BASIN DECLARED
 DEC 29, 1940, BASIN CLOSED TO APPROPRIATIONS FOR IRRIGATION,
 INDUSTRIAL, AND MUNICIPAL PURPOSES
 OCT 1, 1952, EXTENSION DECLARED
 DEC 2, 1952, PORTION RECLOSED TO AGRICULTURE
 FEB 2, 1953, ADDITIONAL PORTION REOPENED



LEGEND
 ——— BASIN BOUNDARY
 - - - STATE LINE
 \ / \ / \ / AREA INCLUDED IN OCT 1, 1952 EXTENSION

MAP
 SHOWING DECLARED AREA
 LEA COUNTY UNDERGROUND WATER BASIN

STATE ENGINEER OFFICE

WESTERN UNION

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION

Appl EXHIBIT NO. 2
CASE NO. 1610

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 3/11/59

CASE NO. 1610

HEARING DATE 9 am 3/11/59
DSN @ SF

My recommendations for an order in the above numbered case(s) are as follows:

Enter an order approving the Wells Water Flood Project, in the Rhodes Pool and 35, Township 26 South, Range 37 East, Lea County & authorize the six requested impoundment wells.

This proposed flood is for acreage which offsets an existing water flood project in Texas.

Also authorize the 5 ^{on ex} unauthorized locations marked Applicant requested capacity acreage. There as such should not be authorized at this time. Instead, an administrative procedure should be set up for the water flood which will authorize the granting of allowables in X5 of normal unit allowance when the need for such allowables rises.

There is no need for administrative procedure to expand the flood as the applicant is putting his entire acreage under flood initially.

Staff Member

San Juan
Examiner

WOOD RIVER OIL & REFINING CO., INC.

100 WEST BOLLMAN

WICHITA, KANSAS

Case 1611

1959 FEB 16 AM 10:28

SANTA FE, NEW MEXICO

February 10, 1959

New Mexico Oil Conservation Commission
Santa Fe
New Mexico

Re: Wills Flood

Gentlemen:

Enclosed, in triplicate, is our Application pertaining to the above flood

We trust you will place this on your list for the March Hearing

Yours truly,

WOOD RIVER OIL & REFINING CO., INC.

C. C. Chapin

Enclosures

cc: Bureau of Land Management, Santa Fe, New Mexico
United States Geological Survey, Roswell, New Mexico
United States Geological Survey, Hobbs, New Mexico
The Texas Co., Midland, Texas
The Texas Co., Hobbs, New Mexico
Thomas F. McKenna, Santa Fe, New Mexico
Hiram Keith, Kermit, Texas

APPLICATION FOR WATER FLOODING
OF PRODUCING FORMATION

Case 1610

To: New Mexico Oil Conservation Commission
Santa Fe, New Mexico

February 10, 1959

Application for an Order to include: (1) Authority of Install and Operate a Flood, (2) Granting Full Capacity Flood Allowable and (3) Exception to Spacing Rules for Proposed Injection Wells Nos. 6, 7, 9, 10 and 11, which locations are unorthodox, is herein submitted in triplicate as follows:

1. Name of Flood: Wills
Name of Field: Rhodes
Name of Lease Owner: Wood River Oil & Refining Co., Inc.
321 West Douglas, Wichita, Kansas

2. Description of Leases:

<u>U.S. SERIAL NO.</u>	<u>LEGAL DESCRIPTION</u>	<u>DATE OF LEASE</u>	<u>ACRES</u>
LC 050107 (b)	Lot 1, Sec. 34	12-19-38	32.74
LC 050107 (a)	NE/4 NE/4, Sec. 34; Lots 2, 3, 4; N/2 NW/4; NW/4 NE/4 Sec. 35 All in T-26S, R-37E Lea County, New Mexico	12-1-58	257.81

3. Production map attached as Exhibit "A" shows wells and leases in the area to be flooded. All well location measurements and location units are shown on Exhibit "B".

4. It is desired to flood the lower Yates (Penn Bennett) formation through perforations which range in depths from 3235' to 3310'.

Injection is desired to be made into well No's. 6, 7, 8, 9, 10 and 11 as shown on Exhibit "A".

5. Subsea Tops of producing formation are shown by (-) data on Exhibit "A".

6. Casing program for injection wells will be:

<u>SIZE</u>	<u>TOTAL LENGTH</u>	<u>SEAT DEPTH</u>	<u>GRADE</u>	<u>CEMENTED OR MUDDED</u>	<u>FOOTAGE BEHIND CEMENT</u>	<u>NUMBER SACKS CEMENT USED</u>
8 5/8	600'	600'	New	Cemented	600'	325
5 1/2	3370'	3370'	New	Cemented	600' and mudded to surface	125

7. Liquid desired to be used for flooding is fresh water produced from a depth of about 550'. Estimated water requirements are 1200 b/d minimum to 2000 b/d maximum. Injection water is to be introduced at the well head under 400 pounds minimum pressure to 1600 pounds maximum pressure.

8. A copy of this Application has been sent to:

<u>NAME</u>	<u>ADDRESS</u>	<u>HOW SENT</u>
Bureau of Land Management	Santa Fe, N. M.	Registered Mail
John A. Anderson, NMS	Box 6721, Roswell, N. M.	Registered Mail
Harry Dupont, USGS	Box 1838, Hobbs, N. M.	Registered Mail
The Texas Co.	Midland, Texas	Registered Mail
The Texas Co.	Hobbs, N. M.	Registered Mail

Respectfully submitted,

WOOD RIVER OIL & REFINING CO., INC.

BY *C. C. Chapin*
C. C. Chapin

"APPLICANT"

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Wood River Oil & Refining Co., Inc.
Petroleum Products

321 WEST DOUGLAS WICHITA, KANSAS

PRODUCTION DEPARTMENT
C. C. CHAPIN, MANAGER

May 8, 1959

can file

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Case No. 1610 -
Order No. R-1252

Gentlemen:

One of the conditions of the above order is that we give you monthly reports of progress on the flood to be constructed.

We expect to start drilling a water supply well around May 12.

We will keep you further informed at least once a month. In the meantime, if you wish any further information we will be glad to furnish it.

Yours truly,

WOOD RIVER OIL & REFINING CO., INC.

C. C. Chapin

C. C. Chapin

/s/

cc: New Mexico Oil Conservation Commission
Albuquerque, New Mexico

APPLICATION FOR AMENDMENT TO
NEW MEXICO CONSERVATION COMMISSION
CASE NO. 1610, ORDER NO. R-1352

July 3, 1959

To: New Mexico Conservation Commission
Santa Fe, New Mexico

Application for an order to: Amend order to change locations of
injection wells Nos. 8 and 9:

1. Name of Flood: Wells
Name of Field: Rhedon
Name of Lease Owner: Wood River Oil & Refining Co., Inc.
321 West Douglas, Wichita, Kansas

2. Description of Leases:

<u>U. S. SERIAL NO.</u>	<u>LEGAL DESCRIPTION</u>	<u>DATE OF LEASE</u>	<u>ACRES</u>
LC 050107 (b)	Lot 1, Sec. 34	12-19-38	32.74
LC 050107 (a)	NE/4 NE/4, Sec. 34; Lots 2, 3, 4; N/2 NW/4; NW/4 NE/4 Sec. 35 All in T-26S, R-37E Lea County, New Mexico	12-1-58	257.61

3. Production map attached as Exhibit "A" shows wells and leases in the area to be flooded. All well location measurements and location units are shown on Exhibit "B", (Amended).

Sec. 35, Twp. 36S, Rge. 37E, shown on Exhibit "B", is an irregular tract. The distance from the north to the south line is only 2390'. Our original application showed spacing for a regular 2640' half section.

In order to equally flood the producing wells it is necessary to move injection wells Nos. 8 and 9 approximately 180' south or 1135' from the south line instead of 1315' from the south line as shown on the original application.

4. A copy of this application has been sent to:

<u>NAME</u>	<u>ADDRESS</u>	<u>HOW SENT</u>
Bureau of Land Management	Santa Fe, N. M.	Registered Mail
John A. Anderson, U. S. G. S.	Box 6721, Roswell N. M.	Registered Mail
A. P. Kleeman, U. S. G. S.	Box 1838, Hobbs, N. M.	Registered Mail
The Texas Co.	Midland, Texas	Registered Mail

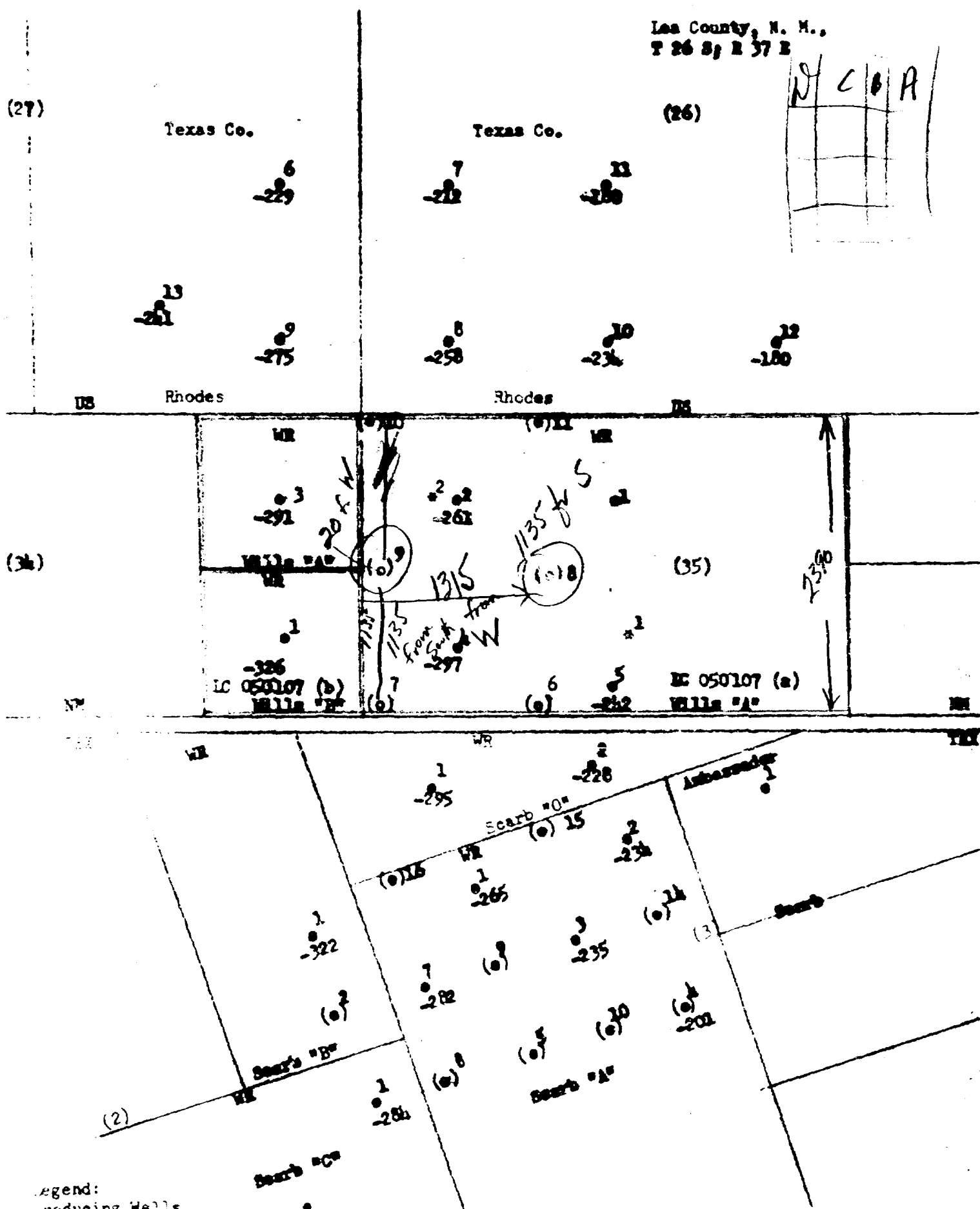
Respectfully submitted,

WOOD RIVER OIL & REFINING CO., INC.

BY C. G. Chapin
C. G. Chapin

"APPLICANT"

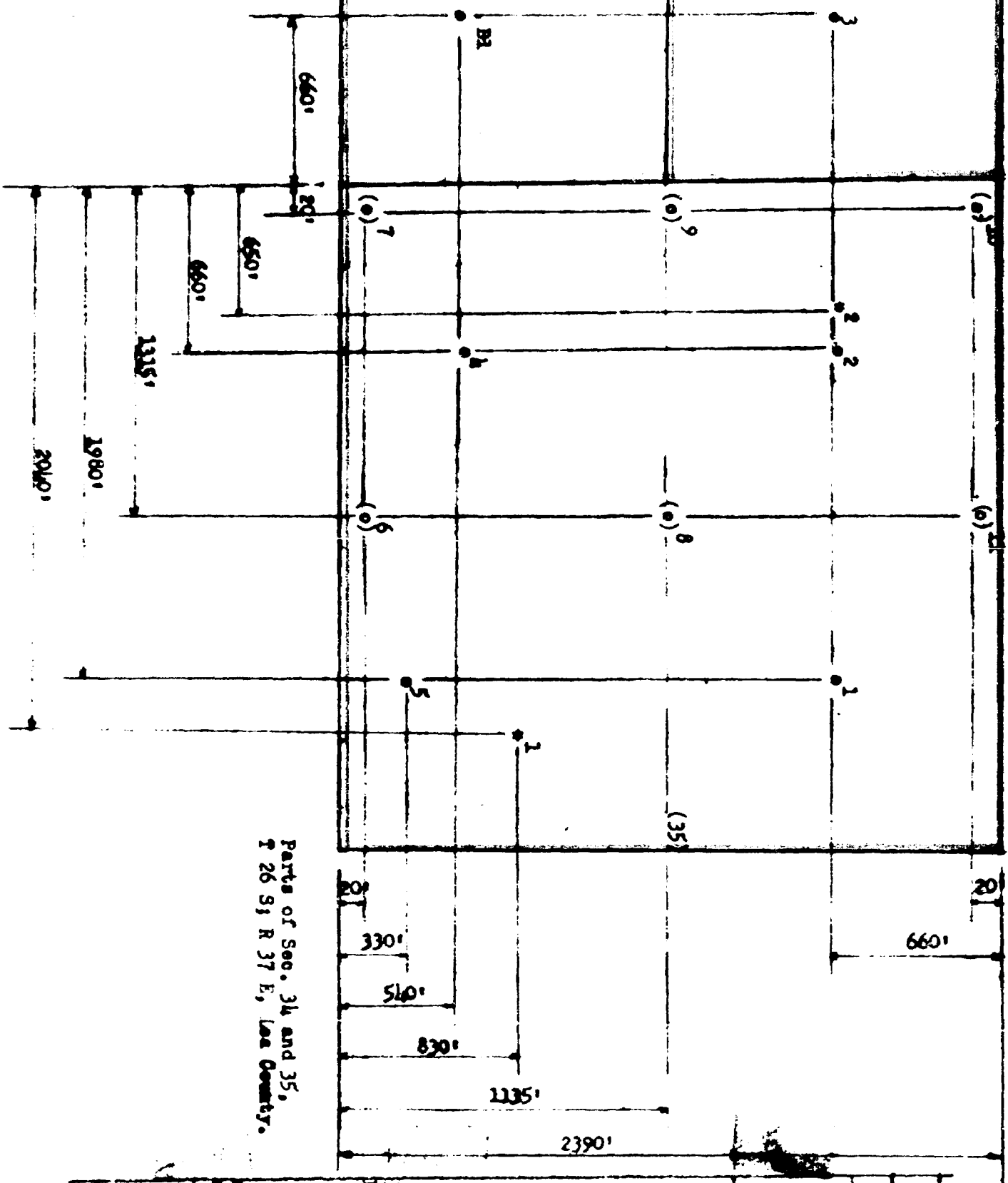
PLAT SHOWING PARTS OF
 RHODES FIELD IN LEA COUNTY, NEW MEXICO AND
 NORTH SCARBOROUGH FIELD IN WINKLER COUNTY, TEXAS



Legend:
 Producing Wells (•)
 Injection Wells (o)
 Proposed Injection Wells (o)
 Water Supply Wells (*)
 Wood River Oil & Refg. Co. WR

Winkler County, Texas
 Map. C-22 PSL Survey

EXHIBIT "B" (AMENDED)



LOCATION OF WELLS				
Well No.	Classification	Footage from -- Line of Sec. 35	Footage from W Line of Sec. 35	Original Depth
1	•	660 FNL	1980	C
2	•	660 FNL	660	D
3	•	240 FSL	660	E
4	•	330 FSL	1980	F
5	•	20 FSL	1315	M
6	(o)	20 FSL	20	I
7	(o)	1135 FSL	1315	E
8	(o)	1135 FSL	20	D
9	(o)	20 FNL	20	D
10	(o)	20 FNL	1315	C
11	(o)	20 FNL		
3	•	Footage from -- Line of Sec. 34	Footage from E Line of Sec. 34	A
B-1	•	660 FNL	660	H
	•	540 FSL	660	
1	*	Footage from -- Line of Sec. 35	Footage from W Line of Sec. 35	F
2	*	690 FNL	2040	D
	*	660 FNL	650	

Legend: Producing Wells •
Proposed Injection Wells (o)
Water Supply Wells *

WMA 01500 000



RECEIVED JUL 3 1959

Wood River Oil & Refining Co., Inc.
Petroleum Products

321 WEST DOUGLAS WICHITA, KANSAS

PRODUCTION DEPARTMENT
C. C. CHAPIN, MANAGER

July 3, 1959

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
Your Order R-1352; Case 1610

Gentlemen:

Enclosed, in triplicate, is our application for
an amendment to your Order No. R-1352.

Our Santa Fe attorney, Mr. McKenna, has already
called on you to explain our problem and he requested
that we file this amended application.

We are surveying locations and building roads to
these wells and, no doubt, we will have your decision
by the time we are ready to start drilling wells 8 and
9.

Thanks for your consideration in this matter.

Yours truly,

WOOD RIVER OIL & REFINING CO., INC.

C. C. Chapin

/smc
Enclosures

cc: Bureau of Land Management, Santa Fe, N. M.
United States Geological Survey, Roswell, N. M.
United States Geological Survey, Hobbs, N. M.
The Texas Co., Midland, Texas

Handwritten notes:
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DOCKET: EXAMINER HEARINGS JULY 28, 1969

Oil Conservation Commission - 9 am., Mabry Hall, State Capitol, Santa Fe, New Mexico

The following cases will be heard before Elvin A. Uitz, Examiner, or A. L. Porter, Jr., Secretary-Director

Continued Case

CASE 1720: (Continued) Application of Skelly Oil Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its W. P. Saunders Well No. 1, located in the SW/4 SE/4 of Section 11, Township 26 North, Range 11 West, San Juan County, New Mexico, in such a manner as to produce oil from the Gallegos-Gallup Oil Pool and to produce oil from an undesignated Dakota pool through parallel strings of tubing.

NEW CASES

CASE 1725: Application of Amerada Petroleum Corporation for an oil-oil dual completion and for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State "Q" Well No. 1, located in the NW/4 SE/4 of Section 16, Township 20 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Eunice-Monument Pool and the production of oil from an undesignated Tubb pool, through parallel strings of tubing. Applicant further seeks permission to commingle the production from said pools produced from the said State "Q" Well No. 1.

CASE 1726: Application of Amerada Petroleum Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Ka Da Pa Well No. 1, located in the SW/4 SW/4 of Section 4, Township 25 North, Range 12 West, San Juan County, New Mexico, in such a manner as to permit the production of oil from the Bisti-Lower Gallup Oil Pool and the production of oil from an interval designated by the applicant as the Lower Mancos sand through parallel strings of tubing.

CASE 1727: Application of Skelly Oil Company for an oil-gas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Jicarilla "B" Well No. 20, located in the NW/4 NW/4 of Section 31, Township 25 North, Range 5 West, Rio Arriba County, New Mexico, in such a manner as to permit production of oil from the Otero-Gallup Oil Pool and the production of gas from an undesignated Dakota pool through parallel strings of tubing.

CASE 1728: Application of Hanson, Waters and Williamson, for an order authorizing a pilot water flood project, for capacity allowables for twelve wells in said project area, and for establishment of an administrative procedure for expansion of said project, conversion of wells to water injection, and for granting capacity allowables. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Coyote-Queen Pool in Chaves County, New Mexico. Applicant proposes to inject water into the Queen formation through six wells located in Sections 15 and 16, Township 11 South, Range 27 East. Applicant also seeks capacity allowables for twelve wells in said project. Applicant further seeks the establishment of a procedure whereby the project area may be expanded, wells may be converted to water injection, and capacity allowables granted without notice and hearings.

CASE 1729:

Application of El Paso Natural Gas Products Company for permission to produce more than 16 wells in a common tank battery. Applicant, in the above-styled cause, seeks an order authorizing the production of more than 16 wells in the Horseshoe-Gallup Oil Pool into a common tank battery. Said wells are located on applicant's Horseshoe Ute Lease comprising portions of Sections 27, 28, 33 and 34, Township 31 North, Range 16 West, San Juan County, New Mexico.

CASE 1610:

Application of Wood River Oil & Refining Company, Inc., for an amendment of Order No. R-1352. Applicant, in the above-styled cause, seeks an amendment of Order No. R-1352, to provide that the unorthodox well locations for well Nos. 8 and 9 of the Wills Water Flood Project, Rhodes Pool, Lea County, New Mexico, be 1135 feet from the South line and 1315 feet from the West line of Section 35, and 1135 feet from the South line and 20 feet from the West line of Section 35 respectively, both in Township 26 South, Range 37 East.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
 Revised 5-1-57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

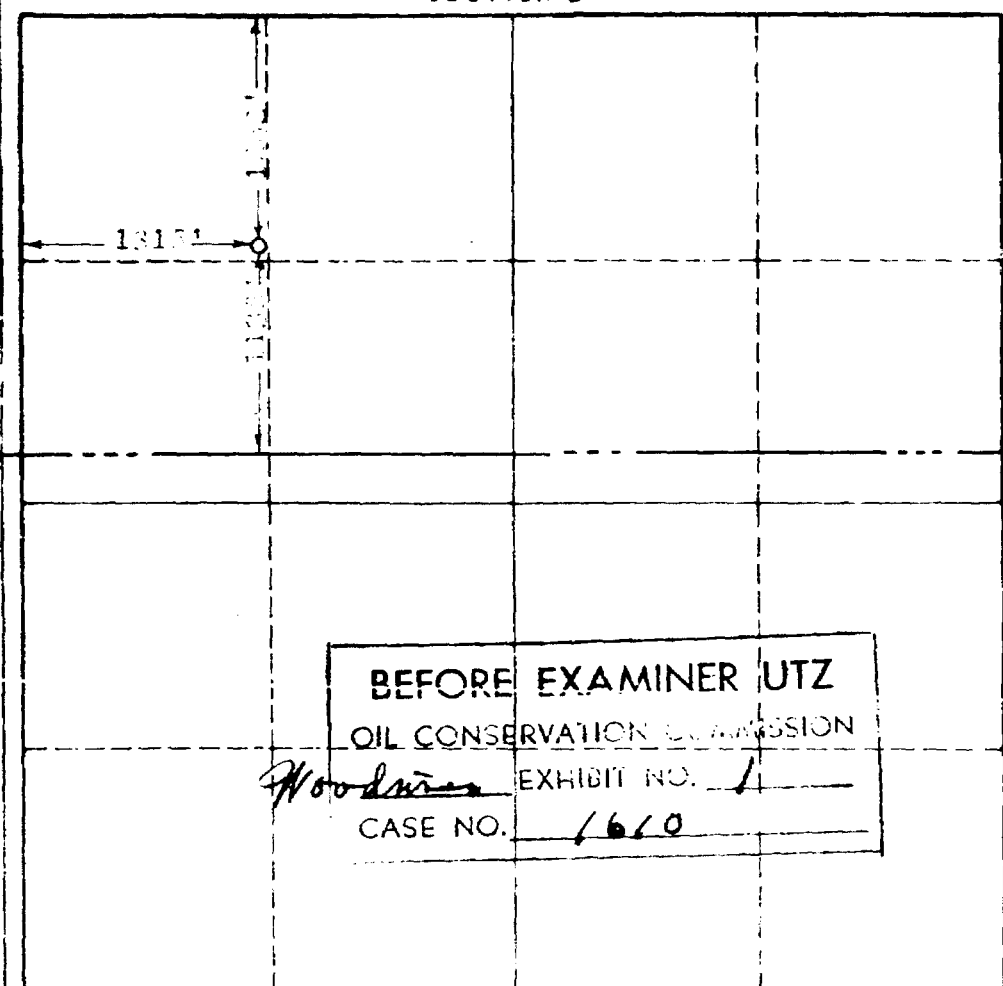
SECTION A

Operator M. J. ...		Lease ...		Well No. ...
Unit Letter ...	Section 38	Township ...	Range ...	County ...
Actual Footage Location of Well: 112 feet from the ... line and ... feet from the ... line				
Ground Level Elev. ...	Producing Formation ...	Pool ...	Dedicated Acreage Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO _____ ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communization agreement or otherwise? YES _____ NO _____. If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B



CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name
Position
Company
Date

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
Registered Professional Engineer and/or Land Surveyor JOHN W. WEST
Certificate No. N.M. - P.E. & L.S. NO. 676

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

REC'D JUL 6 1959

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
Revised 5-1-57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

Operator Rio Grande Oil & Gas Co.		Lease 111-1-10-1		Well No. 9	
Unit Letter	Section 35	Township 26 S	Range 27 E	County Lea	
Actual Footage Location of Well: 1125 feet from the South line and 20 feet from the East line					
Ground Level Elev. 2979.20	Producing Formation		Pool	Dedicated Acreage Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO _____. "Owner" means the person who has the right to drill into and produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1958 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES _____ NO _____. If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B

CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name
Position
Company
Date

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed July 1, 1959
Registered Professional Engineer and/or Land Surveyor, JOHN W. WEST
Certificate No. N.M. P.E. & L.S. NO. 676

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
W. H. H. H. EXHIBIT NO. 2
CASE NO. 1610

330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

MAIN OFFICE OCC



1959 JUL 6 AM 8:18

Wood River Oil & Refining Co., Inc.
Petroleum Products

321 WEST DOUGLAS WICHITA, KANSAS

PRODUCTION DEPARTMENT
C. C. CHAPIN, MANAGER

July 6, 1959

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is report on operations under the above order:

- (1) Water Supply Well is drilling at 440'.
- (2) Well A-5 is cleaning out cavings at 3256'.
- (3) Locations for injection wells have been staked.
Bids are being taken to build roads.

Yours truly,

WOOD RIVER OIL & REFINING CO., INC.

C. C. Chapin

/smc

cc: New Mexico Oil Conservation Commission
Hobbs, New Mexico

[Faint handwritten notes and signatures at bottom left]

APPLICATION FOR AMENDMENT TO
NEW MEXICO CONSERVATION COMMISSION
CASE NO. 1610, ORDER NO. R-1952

July 3, 1959

To: New Mexico Conservation Commission
Santa Fe, New Mexico

Application for an order to: Amend order to change locations of
injection wells Nos. 8 and 9:

1. Name of Field: Villa
Name of Field: Machine
Name of Lease Owner: Wood River Oil & Refining Co., Inc.
321 West Douglas, Wichita, Kansas

2. Description of Leases:

<u>U. S. SERIAL NO.</u>	<u>LEGAL DESCRIPTION</u>	<u>DATE OF LEASE</u>	<u>ACRES</u>
LC 050107 (b)	Lot 1, Sec. 34	12-19-58	32.74
LC 050107 (a)	NE/4 NE/4, Sec. 34; Lots 2, 3, 4; N/2 NW/4; NW/4 NE/4 Sec. 35 All in T-26S, R-37E Lee County, New Mexico	12-1-58	257.81

3. Production map attached as Exhibit "A" shows wells and leases in the area to be flooded. All well location measurements and location units are shown on Exhibit "B", (Amended).

Sec. 35, Twp. 36S, Rge. 37E, shown on Exhibit "B", is an irregular tract. The distance from the north to the south line is only 2390'. Our original application showed spacing for a regular 2640' half section.

In order to equally flood the producing wells it is necessary to move injection wells Nos. 8 and 9 approximately 180' south or 1135' from the south line instead of 1315' from the south line as shown on the original application.

4. A copy of this application has been sent to:

<u>NAME</u>	<u>ADDRESS</u>	<u>HOW SENT</u>
Bureau of Land Management	Santa Fe, N. M.	Registered Mail
John A. Anderson, U. S. G. S.	Box 6721, Roswell N. M.	Registered Mail
A. P. Kleeman, U. S. G. S.	Box 1838, Hobbs, N. M.	Registered Mail
The Texas Co.	Midland, Texas	Registered Mail

Respectfully submitted,

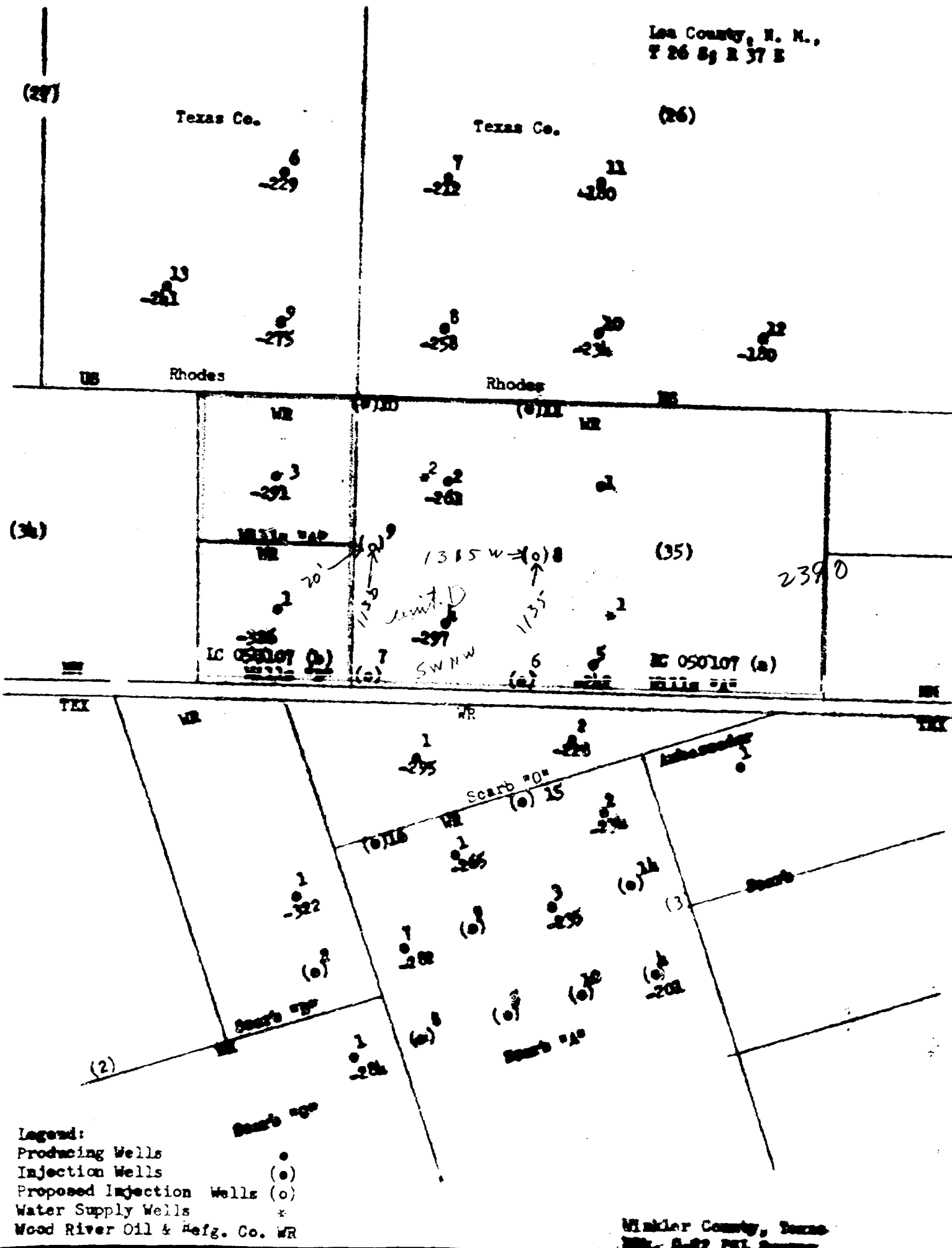
WOOD RIVER OIL & REFINING CO., INC.

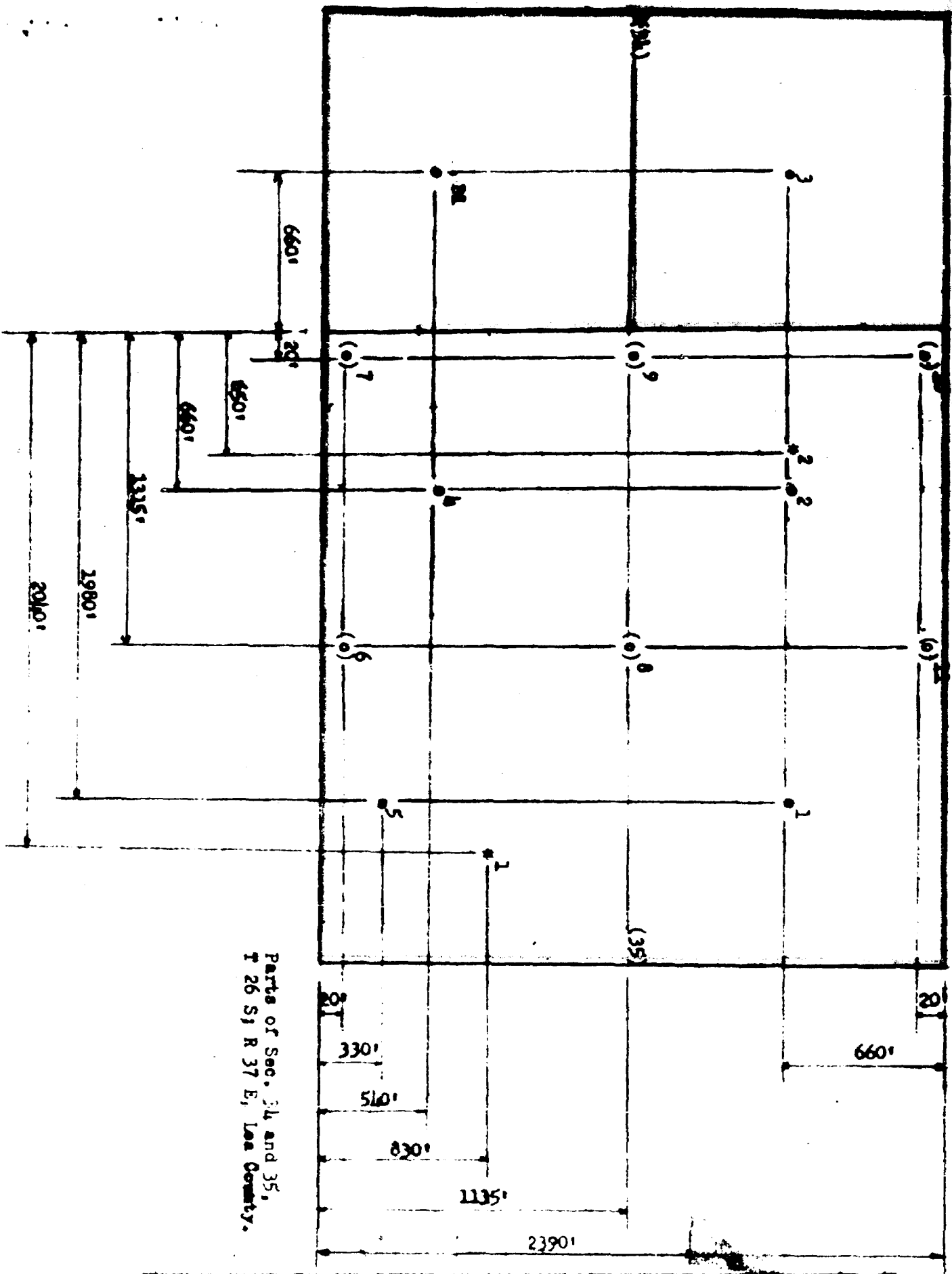
BY C. C. Chapin
C. C. Chapin

"APPLICANT"

1792

BRIDGES FIELD IN LEA COUNTY, NEW MEXICO AND
NORTH SCARBOROUGH FIELD IN WINSTON COUNTY, TEXAS





Parts of Sec. 34 and 35,
T 26 S, R 37 E, Lea County.

LOCATION OF WELLS			
Well No.	Classification	Footage from W Line of Sec. 35	Footage from W Line of Sec. 34
1	(o)	660 FNL	1980
2	(o)	660 FNL	660
3	(o)	510 FSL	660
4	(o)	330 FSL	1980
5	(o)	20 FSL	1315
6	(o)	20 FSL	20
7	(o)	1135 FSL	1315
8	(o)	1135 FSL	20
9	(o)	1135 FSL	20
10	(o)	20 FNL	20
11	(o)	20 FNL	1315
3	(o)	660 FNL	660
B-1	(o)	510 FSL	660
1	(o)	Footage from W Line of Sec. 35	Footage from W Line of Sec. 34
2	(o)	830 FNL	2040
3	(o)	660 FNL	650

Legend:

Producing Wells (o)

Proposed Injection Wells (o)

Water Supply Wells *

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 7-29-59

CASE NO. 1610

HEARING DATE 7-28-59

My recommendations for an order in the above numbered case(s) are as follows:

1. Grant Woodrines request to amend R-1352 for 2 injection well locations.
2. (a) Woodrines - Wells Fed # 8, ~~1135~~ 1135 ft./S line 1315/W line of sec. 35-26S-37E, NMPM.
(b) Woodrines - Wells Fed # 9, 1135/S and 20/W line of sec. 35-26S-37E NMPM.
3. Order R-1352 should have used the operator name & lease name for wells which are listed.

Christ. H.

Staff Member



Rock Island Oil & Refining Co., Inc.

AM 5-5674 • 321 WEST DOUGLAS
WICHITA 2, KANSAS

December 22, 1960

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Wills Flood
35-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is the November report on operations under the above order.

Wills A-1 - Producing
A-2 - Producing
A-3 - Producing
A-4 - Producing
A-5 - Producing
A-6 - Injecting 103 b/d at 680#
A-7 - Injecting 47 b/d at 690#
A-8 - Injecting 217 b/d at 280#
A-9 - Injecting 189 b/d at 680#
A-10- Injecting 151 b/d at 680#
A-11- Injecting 90 b/d at 690#
A-12- Injection well - drilling at 2980'
B-1 - Producing about 6 bf/d - 3% oil

Yours truly,

ROCK ISLAND OIL & REFINING CO., INC.

H. G. Rippeteau
H. G. Rippeteau

/pam

**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. 1610
Order No. R-1352**

**APPLICATION OF WOOD RIVER OIL &
REFINING COMPANY, INC., FOR AN
ORDER AUTHORIZING A WATER FLOOD
PROJECT IN THE RHODES POOL, LEA
COUNTY, NEW MEXICO, FOR THE
ESTABLISHMENT OF AN ADMINISTRATIVE
PROCEDURE FOR GRANTING CAPACITY
ALLOWABLES TO WELLS IN SAID PROJECT,
AND FOR APPROVAL OF UNORTHODOX
LOCATIONS FOR THE INJECTION WELLS
WITHIN THE PROJECT.**

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 11, 1959, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 18th day of March, 1959, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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 proposes to institute the "Wills Water Flood Project" in the Rhodes Pool, Lea County, New Mexico, on two federal leases in Sections 34 and 35, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the proposed water flood project is an expansion of a presently existing water flood project in the State of Texas.
- (4) That the applicant proposes to inject water into the lower Yates formation in said Rhodes Pool through the following-described wells, which are to be drilled on unorthodox locations:

-2-

Case No. 1610
Order No. R-1352

Well No. 6, to be located 20 feet from the South line and 1315 feet from the West line of Section 35.

Well No. 7, to be located 20 feet from the South line and 20 feet from the West line of Section 35.

Well No. 8, to be located 1315 feet from the South line and 1315 feet from the West line of Section 35.

Well No. 9, to be located 1315 feet from the South line and 20 feet from the West line of Section 35.

Well No. 10, to be located 20 feet from the North line and 20 feet from the West line of Section 35.

Well No. 11, to be located 20 feet from the North line and 1315 feet from the West line of Section 35,

all in Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.

(5) That the proposed unorthodox locations for the above-described wells should be approved.

(6) That an administrative procedure should be established whereby approval may be granted for capacity allowables to wells in the project when, in the opinion of the Secretary-Director, good cause is shown for doing so.

IT IS THEREFORE ORDERED:

(1) That Wood River Oil & Refining Company, Inc., be and the same is hereby authorized to institute the Wills Water Flood Project in the Rhodes Pool, Lea County, New Mexico, by the injection of water into the lower Yates formation through the following-described wells:

Well No. 6, to be located 20 feet from the South line and 1315 feet from the West line of Section 35.

Well No. 7, to be located 20 feet from the South line and 20 feet from the West line of Section 35.

Well No. 8, to be located 1315 feet from the South line and 1315 feet from the West line of Section 35.

Well No. 9, to be located 1315 feet from the South line and 20 feet from the West line of Section 35.

-3-

Case No. 1610
Order No. R-1352

Well No. 10, to be located 20 feet from the North line and 20 feet from the West line of Section 35.

Well No. 11, to be located 20 feet from the North line and 1315 feet from the West line of Section 35,

all in Township 26 South, Range 37 East, NMPL, Lea County, New Mexico.

(2) That unorthodox locations be and the same are hereby approved for the above-described wells.

(3) That a procedure be and the same is hereby established whereby approval of capacity allowables for wells in said project may be granted by the Secretary-Director administratively (without notice and hearing) when the applicant furnishes good reason therefor.

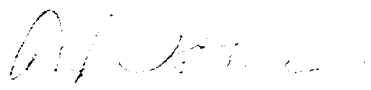
(4) That monthly progress reports on the water flood project herein authorized shall be submitted to the Commission in accordance with Rule 704 and Rule 1119 of the Commission Rules and Regulations.

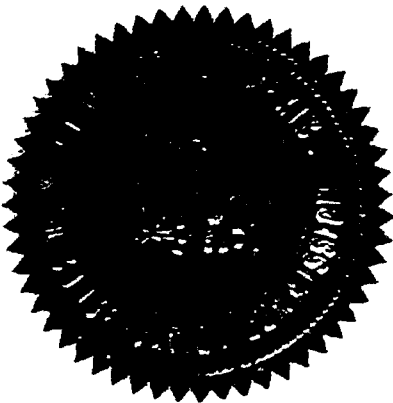
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


JOHN BURROUGHS, Chairman


MURRAY E. MORGAN, Member


A. L. PORTER, Jr., Member & Secretary



in/

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

March 19, 1959

Mr. Thomas F. McKenna
302 East Palace
Santa Fe, New Mexico

Dear Mr. McKenna:

On behalf of your client, Wood River Oil & Refining Company, we enclose two copies of Order R-1352 issued March 18, 1959, by the Oil Conservation Commission in Case 1610, which was heard on March 11th before an examiner.

Very truly yours,

A. L. Porter, Jr.
Secretary - Director

bp
Encls.

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

C
O
P
Y

August 6, 1959

Mr. Thomas F. McKenna
302 East Palace
Santa Fe, New Mexico

Dear Mr. McKenna:

On behalf of your client, Wood River Oil & Refining Company, we enclose two copies of Order No. R-1352-A issued On August 6, 1959, by the Oil Conservation Commission in Case No. 1610.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

lr/

Enclosures

*Copy sent to Hobbs & Adams
and 114 Chapin*



File Case
1610
Regular Case
File 3

Wood River Oil & Refining Co., Inc.
Petroleum Products

321 WEST DOUGLAS WICHITA, KANSAS

PRODUCTION DEPARTMENT
C. C. CHAPIN, MANAGER

August 3, 1959

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Mills Flood
24-26-37
Lea County, New Mexico
Case No. 1610, Order No. R-1352

Gentlemen:

Following is report on operations under the above order:

- (1) Water Supply Well has been completed for approximately 1120 b/d.
- (2) Well A-5 has been cleaned out and is being put on production.
- (3) Roads have been built to all injection wells. Site has been graded for the plant.
- (4) Well A-3 is cleaning out at 3262'.
- (5) Well B-1 is cleaning out at 3345'.
- (6) Expect to move in rotary tools on injection well A-6 within a week.

Yours truly,

WOOD RIVER OIL & REFINING CO., INC.

C. C. Chapin

C. C. Chapin

/src

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. 1610
Order No. R-1352-A

APPLICATION OF WOOD RIVER OIL
& REFINING COMPANY, INC., FOR
AN AMENDMENT OF ORDER NO. R-1352
TO PROVIDE FOR CHANGES IN TWO
UNORTHODOX WELL LOCATIONS IN THE
WILLS WATER FLOOD PROJECT, RHODES
POOL, LEA COUNTY, NEW MEXICO

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 28, 1959, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, herein-after referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 6th day of August, 1959, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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, Wood River Oil & Refining Company, Inc., seeks an amendment of Order No. R-1352 to provide that the unorthodox well locations for Wood River-Wills Federal Well No. 8 and Wood River-Wills Federal Well No. 9 in the Wills Water Flood Project, Rhodes Pool, Lea County, New Mexico, be 1135 feet from the South line and 1315 feet from the West line of Section 35 and 1135 feet from the South line and 20 feet from the West line of Section 35, respectively, both in Township 26 South, Range 37 East, N40W.

(3) That approval of the proposed amendment of Order No. R-1352 will neither cause waste nor impair correlative rights.

-2-

Case No. 1610

Order No. R-1352-A

IT IS THEREFORE ORDERED:

That as requested, Order No. R-1352 be and the same is hereby amended to provide that the unorthodox well locations for Wood River-Wills Federal Well No. 8 and Wood River-Wills Federal Well No. 9 of the Wills Water Flood Project, Rhodes Pool, Lea County, New Mexico, be 1135 feet from the South line and 1315 feet from the West line of Section 35, and 1135 feet from the South line and 20 feet from the West line of Section 35, respectively, both in Township 26 South, Range 37 East.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

John Burroughs
JOHN BURROUGHS, Chairman

Murray E. Morgan
MURRAY E. MORGAN, Member

A. L. Porter, Jr.
A. L. PORTER, Jr., Member & Secretary



ven/

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 28, 1959

EXAMINER HEARING

IN THE MATTER OF:

✓ Vase 1610

DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE NEW MEXICO
Phone CHapel 3-6691

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 28, 1959

EXAMINER HEARING

IN THE MATTER OF:

Application of Wood River Oil & Refining Com-)
pany, Inc., for an amendment of Order No.)
R-1352. Applicant, in the above-styled)
cause, seeks an amendment of Order No. R-)
1352, to provide that the unorthodox well)
locations for well Nos. 8 and 9 of the Wills)
Water Flood Project, Rhodes Pool, Lea)
County, New Mexico, be 1135 feet from the South)
line and 1315 feet from the West line of Sec-)
tion 35, and 1135 feet from the South line)
and 20 feet from the West line of Section 35)
respectively, both in Township 26 South,)
Range 37 East.)

BEFORE:

Mr. Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: The next case will be Case 1610.

MR. PAYNE: Case 1610. "Application of Wood River Oil
& Refining Company, Inc., for an amendment of Order No. R-1352."

MR. McKENNA: Mr. Examiner, Thomas McKenna of McKenna
and Summer, Santa Fe, appearing for the applicant, Wood River
Oil & Refining Company. I have one witness, Mr. C. C. Chapin.

(Witness sworn.)

C. C. CHAPIN

called as a witness, having been first duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. McKENNA:

Q Will you state your name, please?

A C. C. Chapin.

Q C-h-a-p-i-n, is that correct?

A Yes, sir.

Q What is your address, Mr. Chapin?

A Wichita, Kansas.

Q What is your occupation?

A Manager of Production Department, Wood River Oil & Refining Company.

Q Have you testified before this Commission on previous occasions?

A Yes, sir.

Q Mr. Chapin, did you prepare the application, was the application prepared at your direction which is involved in this matter?

A Yes, sir.

Q Can you tell the Examiner the particular relief that you request and the purpose of the application?

A In our application dated February 14th we requested our

tract of land was 2540 feet from the North line to the South line. In staking our locations recently we found out it was only 2390 feet from the North line to the South line. That brought about the necessity of changing the location of injection wells No. 8 and 9 to 180 feet south of our original application, move it 180 feet south.

Q Is the purpose of this application to request an amendment of Order No. R-1352 previously entered by the Commission in this matter, being the Wills Water Flood Project, is that correct?

A Yes, sir.

Q So it may be put out definitely, what will now, what is the south location for Well No. 8?

A We wish it to be 1135 feet from the South line, now.

Q By way of refreshing your memory, you are right, go ahead, sir, I am sorry. Give the complete location.

A We want No. 8 to be 1135 feet from the South line and 1315 feet from the West line of Section 35, Township 26 South, Range 37 East, Lea County.

Q And will you tell the Examiner the desired new location for Well No. 9?

A We seek to have injection well No. 9, 1135 feet from the South line and 20 feet from the West line of Section 35, Township 26 South, Range 37 East, Lea County.

Q And so far as is necessary, your request is for the

approval of such locations as an unorthodox location, is that correct?

A Yes, sir.

Q Can you tell the Examiner the quarter subdivision or legal subdivision in which these two wells as now requested will be located?

A They both will be in Subdivision D.

Q And Subdivision D would be the Northwest Quarter of the Northwest Quarter of Section 35?

A Yes, sir.

Q 26 South, 27 East?

A 37 East.

Q 37 East?

A Yes.

MR. McKENNA: I have two exhibits which I would like to have identified, Exhibits 1 and 2 of Wood River Oil & Refining Company.

(Whereupon the documents above referred to were marked Applicant's Exhibits Nos. 1 & 2, for identification.)

Q I hand you what has been marked as Applicant's Exhibits 1 and 2. Will you tell the Examiner what they purport to be, please?

A These are the surveyor's plats showing the location of injection wells No. 2 and 9 on our Wells Flood in Section 35, Township 26, Range 37, Lea County.

Q And is it true that these exhibits reflect the

prepared or desired locations?

A Yes, this coincides with our application, revised application, yes, sir.

Q Can you state whether or not you prepared these exhibits or whether or not they were prepared at your direction?

A They were, yes, sir.

Q Prepared at your direction, is that correct, sir?

A Yes, sir.

MR. McKENNA: Mr. Examiner, I would like to have these submitted in evidence.

(The documents previously marked Applicant's Exhibits Nos. 1 & 2 were offered in evidence by counsel for the Applicant.)

MR. UTZ: Without objection they will be received.

Q Mr. Chapin, do you see anything in connection with your application that would be violative of the principles of conservation and the prevention of waste?

A No, I do not.

Q And would it be your testimony that this application is in keeping with correlative rights?

A Oh, yes, sir.

Q And the basis of your application is to request the amendment of the previous order as to Wells 8 and 9, is that correct?

A Yes, sir.

MR. MCKENNA: That's all I have, Mr. Examiner.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Chapin, have you sent copies of Exhibits 1 and 2 to the Hobbs office for their file?

A Yes, sir.

MR. UTZ: Are there any other questions of the witness?

BY MR. PAYNE:

Q Mr. Chapin, this does not change your original water flood project in any respect here, does it?

A No, not at all, sir. We just got these two wells too far north to make equal distribution.

Q And it was necessary for you to have another hearing since the well location was spelled out in the original order?

A Yes, sir.

MR. UTZ: Any other questions? If not, the witness may be excused.

(Witness excused.)

MR. UTZ: Is that all you have?

MR. MCKENNA: Yes, sir.

MR. UTZ: Any statement to be made in this case? If not, the case will be taken under advisement and the hearing is adjourned.

STATE OF NEW MEXICO)
:
COUNTY OF BERNALILLO)

I, JOSEPH A. TRUJILLO, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this th 7 day of August, 1959.

Joseph A. Trujillo
Notary Public-Court Reporter

My Commission Expires:
Oct 5 1966

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 1660 heard by me on Aug. 5, 1959.

Ernest H. Meier Examiner
New Mexico Oil Conservation Commission

IN THE DISTRICT COURT OF THE
COUNTY OF BERNALILLO, NEW MEXICO
CRIMINAL DIVISION

IN THE MATTER OF:

CASE NO. 1010

TRANSCRIPT OF HEARING

DEARNLEY & MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE, NEW MEXICO
Phone CHapel 3-6691

11-10-10, 11-10-10

NEW MEXICO OIL CONSERVATION COMMISSION

Mabry Hall

Santa Fe, NEW MEXICO

REGISTER

HEARING DATE _____ Examiner _____ March 11, 1959 TIME: 9:00 a.m.

NAME:	REPRESENTING:	LOCATION:
Hiram W. Keith	Wood River	Kermit, Texas
Thomas F. McKinn	" "	Santa Fe
J. C. Asstetter	" "	Monahans, Tex
G. C. Chapman	" "	Wichita Falls
● H. N. Rhodes	British American	Albuquerque, Colo.
Burns H. Errebo	" "	Albuquerque
John Yumonta	T. P. Coale Oil Co.	Midland, Texas
John Langston	Great Western Oil	MIDLAND
Wm. A. Davis	Kern Oil	Midland
Robert H. Vink	Anteroil	H. Worth
J. D. Camacho	"	"
James D. Darnell	"	Rockwell
Frank E. Daly	State Energy Co.	San Antonio
● L. J. Dwyer	Hearings & Rentals	Midland
Harry F. Dwyer	Hearings & Rentals	San Antonio
W. L. Dwyer	Hearings & Rentals	MIDLAND TEX

IN COMMISSIONER OF LAND AND MINES
ALBUQUERQUE, NEW MEXICO

IN THE MATTER OF:

Application of Hood River Oil & Refining Company, Inc., for an order authorizing a pilot water flood project, for capacity allowables for wells in said project, and for approval of five unorthodox locations. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Rhodes Pool in Lea County, New Mexico. Applicant proposes to inject water into the Lower Yates formation through six wells located in Section 35, Township 21 South, Range 31 East. Applicant also seeks approval of unorthodox locations for five of its proposed injection wells. Applicant further seeks capacity allowables for wells within the project.

CASE NO.

1610

BEFORE:

Daniel J. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: The Hearing will come to order, please. First case on the docket this morning will be Case 1610.

MR. PAYNE: Case 1610. Application of Hood River Oil & Refining Company, Inc., for an order authorizing a pilot water flood project, for capacity allowables for wells in said project, and for approval of five unorthodox locations.

Mr. McKeenna: Turning, Mr. Chairman and gentlemen,
my name is Thomas D. McKeenna, Jr., Chairman, etc., and I am
representing Wood River Petroleum Company. Therefore we
only have one witness, Mr. Keith.

(Witness sworn.)

H I R A M W. K E I T H, a witness, called by and on behalf
of the Applicant, being first duly sworn, was examined
and testified as follows:

DIRECT EXAMINATION

BY: MR. McKEENNA:

Q Would you state your name, please, sir.

A My name is Herman W. Keith.

Q And where do you live, Mr. Keith?

A I live in Rockdale, Texas.

Q And by whom are you employed and in what capacity?

A I am employed by the Wood River Petroleum Company
as a petroleum engineer.

Q Have you testified previously before this Commission?

A No.

Q Will you please state your education and your experience
in your field for the Commission.

A My first employment is out of business occurred in
1941 in Greer, Texas. I was employed by the American Oil
Company as a petroleum engineer. I graduated from the University
of Oklahoma in 1937. I am a member of the American Petroleum

Q Now, right?

A Yes, sir, that's right.

Q And you will be in charge of this project if approved?

A And you will be in charge of this project if approved.

Q From an engineering standpoint, yes.

Q Can you tell the examiner your particular acquaintance with the proposed water flood now before this Commission?

A Well, since I have been working with this flood for a year in the North Santherough, naturally we kept, or observed the office, or the out to and for other possible properties to flood, and in the process of this, why I have studied the subsurface and structural and all pertinent things that would be relative to a prospective flood, and visited the leases from time to time to see how they are going along and if progress was being made.

Q And you are personally acquainted with the land involved and the area involved in this proposed water flood?

A Very definitely, yes, I have been out there from three to four times a week.

Q Now, if I recalled correctly, Mr. Wilcox, and correct me if I am wrong, there are two leases involved in this proposed water flood, is that right? () and (), is that right?

A Yes, sir, that's right.

Q. Now, what is the status of the well?

A. It is shut in.

Q. And the status of the well is shut in?

A. No, on 7-1-77, the well was shut in for economic, engineering, etc., reasons. It is shut in for a period of six weeks, and is waiting work.

Q. How many active wells do you now have in this area involved?

A. There are now two. I mean, one active well, the A No. 2 Well, which the Badwater state data showed it was producing 110 barrels a day. The north side well is the one well.

Q. And this proposed project is located in Section 34 and 35 of Township 20 North, Range 1, East, Lea County, is that correct?

A. Right.

Q. Particularly involving Lot A of Section 34 in the NE/4 NE/4 of Section 34; Lots 2, 3, and 4, in the N/2 NE/4, NE/4 NE/4 of Section 35, is that correct, sir?

A. That's right.

Q. Is it your opinion that the reservoir is now in a late stage of primary depletion?

A. Very definitely, yes.

Q. And what is the reservoir, the nature of it?

A. The reservoir is a sandstone.

Q. Yes, please.

Q Now, I am going to ask you to go back to the time you were first contacted by the Department of the Interior, and to tell me what you learned in the field, or through the people in the field, about the oil in the ground.

A And as a result of your studies of this reservoir, have you reached any conclusions as to the necessity for secondary recovery?

A Yes, sir, I have. It is my honest opinion that if secondary recovery operations are not instigated, that we stand to lose a considerable amount of oil in the ground.

Q And is it your testimony that this secondary recovery program as proposed is necessary in the interest of conservation and prevention of waste?

A Yes.

Q What do you believe will be recovered by virtue of this secondary recovery program?

A I believe we can anticipate at least as much if not more additional oil than was recovered by primary, which was 40%, as I previously mentioned.

Q Now, Mr. Witness, I noticed that you have in your possession a copy of the application which was submitted to the Conservation Commission. Will you go ahead and explain to the Commission in detail the proposed plan?

A Yes, sir. The proposed plan is to install a secondary recovery system, which we propose to use to recover the oil in the ground.

...to be completed, we will ...
...injection wells and ...
...injection wells.

...total number of acreage involved in the ...
...

...lease will require, as shown on the map, 390 acres.
...is it then your testimony, or would you view it as a,
in your opinion, as a large flood program, or what?

A No. In fact, it is just a relatively, I consider
a relatively small area, inasmuch as it is just an expansion
or addition to our present flooding operations.

Q In Texas?

A In Texas.

Q Mr. Witness, can you tell the Examiner the reservoir
characteristics of the Penn Bennett sand?

A Yes, sir, I can. The Penn Bennett formation is located
on a, it might be considered a stratigraphic trap. It is indicated
on the west edge of the asymmetrical anticline trending north
and south. The structure plunges approximately 100 feet to
the west and on the eastern edge of the pool, the productive limits
are dominated by permeability conditions, whereas on the western
edge we suspect a very effective water drive, in general would
be correct. In the Penn Bennett, we have a reservoir which,
it is a very low angle towards the west, and it usually comes
in the sandstone. The sandstone is a fine grained sandstone

section, and runs anywhere from four to six feet. Now, as far as the porosity and permeability of this, first, is estimated in this 290 acres that we have requested, that 235 of those are productive. Now, the average porosity is 21.2 per cent; average horizontal permeability, 20.2 millidarcies. Estimated connate water content, 35 per cent. Gravity of oil 31 degrees API. Estimated original reservoir pressure, 1250. Bottom hole temperature, 95 degrees Fahrenheit, viscosity of oil, gas free, 5.4 centipoise. Estimated original GOR 400 to 1. Now, I would like to point out here that this reservoir data is just for the Bennett. Now, the Yates, if they consider the entire Yates, the Yates is going to have a higher GOR on account of the upper zones, the stringers up in there are gas, and these wells, a lot of them, I say a lot of them, five of the six wells were completed producing from the entire Yates section, which included the Penn Bennett and the Upper Yates, but in our flooding program, our injection wells were primarily to flood the Penn Bennett, and we see them all in the North Scarborough field.

Q Do you know what the estimated present reservoir pressure is?

A I would estimate around a hundred pounds.

Q Mr. Wyross, can you tell the examiner how you proceed to isolate the producing zone from

A Well, I believe I explained this in the last report, in the casing program by setting through and isolating the zone.

Bennett section, or those zones which we are flooding now. In the producing wells, why we don't plan to flood in the Tom Bennett, but we are isolating our flood from the original point.

Q And this same completion method has been used in your effect North Scarborough pool, is that correct?

A Yes, sir, we found it to be very successful there.

Q Do you have any idea, or can you express any opinion as to the compatibility of the injection and produced water?

A No, that would be difficult, since the leases haven't produced water, and we had a water table, but that has been very hard to define. It is very hard to run any chemical analysis to find the compatibility of the two waters. However, I can say this, we have had flooding for four and a half years in the North Scarborough field, and some of the wells have had the break-through point and we haven't noticed any adverse effect in those wells from injection of the fresh water in the Tom Bennett section.

Q In addition, your application asks for full capacity allowables, is that correct?

A Yes.

Q Have you reached any conclusion as to the economic necessity of that?

A I believe it is necessary, in view of the fact that the Tom Bennett section is a very important part of the North Scarborough field, and it is necessary to maintain the water level in the Tom Bennett section in order to maintain the production of the North Scarborough field. I believe it is necessary to maintain the water level in the Tom Bennett section in order to maintain the production of the North Scarborough field.

is maintained to some extent, and the same goes for the other reservoirs. The water is not being used on both sides of the oil field.

Q And as you said, you do have full capacity flow in the North Dearborn field.

A We have full capacity flow in the North Dearborn field.

Q Now, Mr. Wilcox, is your opinion that the project is necessary for the greatest amount of recovery of oil and that it will prevent waste in feeling with the principles of conservation?

A I do, because and I forget to mention the reservoir characteristics of the pool--it has been reduced primarily by gas drive, and which we now isn't a very efficient method of production from an overall standpoint, and I believe we can reduce the oil saturation in the reservoir by secondary recovery methods.

MR. BELMONT: I believe that's all, Mr. Examiner.

MR. NUTTER: Are there any questions of this witness?

MR. BELMONT: Yes.

MR. NUTTER: Mr. Wilcox.

THE COURT: All right.

Y: MR. BELMONT:

Q Now, Mr. Wilcox, is the oil field in the North Dearborn field?

1. I am not sure that in fact, the Commission has a
provision that it can, in the event of a flood, allocate
it capacity.

A. If they are in the flood area, I suppose there are some leases that haven't been -- it don't appear to be -- it
been flooded. They don't have capacity allowable. When we get
the flood permit then we usually set up, like the lease, for
instance, the lease went from ten barrels up to two hundred
barrels in one month, and we will go to the Railroad Commission
and tell them that, and they will give us a capacity allowable.
In other words, it is just a matter of informing them what it is
and they assign us capacity allowable on that two hundred barrels
a day for the lease.

Q. In other words, they have what we consider comparable
to an administrative procedure for allowing capacity allowables
for wells that have had a considerable response to the flood?

A. That's right, but it is just a matter of -- all we
do is just write a letter and then they answer back, and we inform
our pipeline and so forth.

Q. I was just wondering if you were aware of the fact
that the New Mexico Commission has been allocated water
flood project in the very near area -- I mean, they were
approved for use in the project?

A. Well, I wouldn't consider that a flood project.

Q. It is a flood project in New Mexico, isn't it?

A It is all the same, it is a single field. In other words, it is just an extension of the field. The field and the North Sacramento are very well in fact, the same field, and just because the state line is there, from your standpoint, I guess you would look at it as a pilot flood; from our standpoint, we don't. We have been operating it for four and a half years. We originated the pilot flood in 1950, which we have six injection wells, and now get to the point where we produce three hundred thousand barrels from the flood.

Q Would you be satisfied with an order which provided that when a well has a substantial response from the flood and you so advise us, we would administratively approve capacity allowances for such wells, providing the response was substantial?

A Would that mean that we would have to have a hearing, or would it --

Q No, administrative approval by the Secretary Director upon being satisfied that the wells had received the substantial response.

A I think that would be the same as we have in Texas, if it were handled in that method.

MR. HOLMAN: He would be satisfied.

MR. BYRNE: That is your opinion.

MR. HOLMAN: I am assuming that the evidence which I have in the volume which I have identified, and which I have introduced, and which I have offered in evidence

One of the maps, showing the location of the proposed
project, showing the location of the proposed project. It is
that of Wood River's Exhibit No. 1.

MR. NUPFER: That is the source of this exhibit, Mr.
McKENNA?

MR. McKENNA: That was received yesterday from the
State Engineer's Office.

MR. NUPFER: Is this an exhibit or a map that was
prepared by the State Engineer's office?

MR. McKENNA: Yes, sir, it is.

MR. NUPFER: This map has been identified as Exhibit
No. 1 in Case 1-10.

MR. McKENNA: I would like to have it be admitted
in evidence.

MR. NUPFER: Is there objection to the introduction
of applicant's Exhibit No. 1 in evidence in this case? The
exhibit consists of two maps, is that correct?

MR. McKENNA: Two maps, that is correct. Mr. Examiner,
the offsetting lease is owned by the Texas Company, and I have
here in my possession a telegram sent to Wood River Oil and
Refining Company from the Texas Company saying that they have
no objection to the proposed water flood project. I would like
to have this admitted in evidence. For identification, I have
here no objections, I would like to have it admitted in evidence.
I have no objections, I would like to have it admitted in evidence.

of the formation, and the fact that the formation is not
affected by the flood.

Mr. Nelson: I believe this question can be

Mr. Nelson: Are there any questions of the kind of
question Mr. Nelson:

Mr. Nelson, did you state the primary drive, mechanical
drive or is formation gas solution gas drive or solution gas?

A. Solution gas. You mean what kind of recovery?

Q. Primary recovery mechanism.

A. A solution gas drive, and a solution gas.

Q. At the present time are your wells in Texas developed
to the stage where, say, your production or injection is right
up against the state line? Is there any more in between? Could
there be any zone between the wells in New Mexico and the wells
in Texas where wells are not presently being flooded or affected
by the flood?

A. No, there wouldn't be, as shown on the map, on that
exhibit. It will be one continuous flood. These wells shown
south of the state line have already been drilled and have water
injection in them. The 15 and 16, they are on the Scarborough
field, and they are injection wells, and they haven't enough
water in them to flood the whole field. They are on the edge
of the field, and they are not in the middle of the field.

Q. Now, if the water is being injected into the wells
south of the state line, is it being injected into the wells
north of the state line?

A. That's right.

Q. And the fact that the water is flowing out of the canal.

A. That's right. Now, the new hydroelectric wells have been put in recently and the water is flowing out of the canal, that's one of the reasons we would like to begin flooding the area. There has been no flood in the area, so naturally a balance flood and not have part of the property flooded out.

Q. And in this lease in New Mexico, you will begin flooding your entire lease.

A. That's right. We don't want a pilot flood because we have already proven to our own satisfaction and I believe we can prove that pretty well, that flooding of the Penn Bennett section is very successful and we see no reason for a pilot flood.

Q. What I am getting at, there will be no further expansion of this?

A. We don't anticipate any, and if some other operator comes along side from the present data it doesn't indicate there will be any expansion. I will put it this way, I mean, that is all speculative.

Q. Do you have the same purchaser in Texas and New Mexico for your oil?

A. No, we don't.

Q. Now, if you have a lease in Texas, is it a lease?

A. Yes.

Q. Now, if you have a lease in Texas, is it a lease?

1000.

A I really cannot, I think, say anything more.

MR. BISHOP: All right, thank you.

MR. BISHOP: Is there anyone else competent?

MR. McKEE: He doesn't know for sure.

MR. NUTTER: Any further questions?

MR. PAYNE: Yes.

MR. NUTTER: Mr. Payne.

QUESTIONS BY MR. PAYNE:

Q Mr. Keith, you say that is not in a declared water basin, is that correct?

A That's right.

Q Could you give me the locations where you propose to drill the two water wells?

A I believe they are located on Section 1, and are shown by asterisk 1 and the other by asterisk 2 by the No. 1 well. No. 1 well, we put our injection plant in there, that is the reason we put it there by our injection plant.

MR. McKEE: Mr. Witness, the fresh water supply well No. 1 is located in Lot 1 of Section 15, and the No. 2 on the Northwest, Northwest corner of Section 15.

A That would be accurate, yes.

MR. BISHOP: All right.

QUESTIONS BY MR. NUTTER:

Q Now, the gas storage is necessarily referred to as the Lower Yates, is it not, or is it somewhere in this general neighborhood, is it not?

A It is my understanding to speak at Section 35, that is my information, the top of Section 35, and I believe that storage is in the Upper Yates, isn't it? I am not too familiar with the storage, but as I understand it, it is in the Upper Yates, and it was, the bottom of the storage was at the top of Section 35, that line there.

Q And the gas storage as far as you know is in the Upper Yates and you will be flooding the John Bennett member, which is the Lower Yates?

A Now, these wells are still producing. I mean, the one well is still producing from the entire Yates section, but we are not in the gas storage project.

Q Now, the one well that you stated was still producing is the No. 2 Well?

A Yes, sir.

Q On your Willis "A" Lease.

A "A" Lease.

Q Which is the well about 100 feet from the well just below the designation of the well?

A That's right, that is the well.

Q What is the owner of the No. 1 and No. 2 on that lease, and the No. 3 and the other lease?

about 100 men and some surface equipment. Along the
surface equipment, the "low" equipment with the exception of
"B" which they have removed all surface equipment.

Q Do you expect that after this flood gets in progress that all six of these well will be activated as producing wells?

A As soon as we complete our injection wells and have our water injection system and our plant set up, we plan to go in and clean up those wells. They never have been cleaned up; clean up the wells and put pumping equipment and electricity on them.

Q That's all six of them?

A Yes, all six producing wells.

Q Could you give us the footage description that you propose for the unorthodox locations of the No. 6, 7, 9, 10, and 11, please?

A That would be on the next exhibit there

Q Those footages are given with the application then?

A Yes, sir.

Is No. 5 and mortgagor location, Mr. Keith

A 10 is, according to the 10 acres. That's 300 from the 1000 long line.

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26

1938, 1939.

Now that would not be an article for local newspaper.

to the extent of the "Finger" formation.

A. I thought 100 or 120 feet or something like that.

Q. No, 110 is reasonable.

A. I didn't know.

Q. I thought from the map it was closer than 110 feet.

A. No, sir, it is 110.

Q. Mr. Keith, you mentioned that the Penn Bennett is composed of two separate sands separated by a thin string of dolomite. What is the member that lies directly above the Penn Bennett and directly below the Penn Bennett?

A. There is a thin dolomite section above and below both, which some people call the dolomite section above the fingers. It is just kind of a field name. Five-finger dolomite and immediately below would be the top of the formation.

Q. Are these two members that bind the upper and lower limits of the Penn Bennett?

A. Very definitely.

Q. So that the layer, or part of the Penn Bennett will be confined to that area, then?

A. Yes, sir.

Q. There are some other formations in the area, are there any other formations that you would like to mention that are in the area?

A. Yes, there are some other formations in the area.

Q. Are there any other formations that you would like to mention?

What is based on volumetric and other data.

In the North Dominguez field.

Q That rates of injection? Yes, sir, that is correct in order to obtain this filling satisfactorily.

A We propose to inject 150 barrels a day.

Q In each well.

A Yes, sir, per well. A total of 1500 barrels.

Q Can you indicate Mr. Keith, the wells which are presently being used as water injection wells on the North Dominguez north of the proposed water flood?

A Yes, sir, they are the same fields on the North Dominguez wells up here that we propose, or they are the same fields.

Q Is No. 15 a water injection well?

A Yes, sir.

Q Sixteen?

A Yes, sir.

Q Fourteen, nine, two, eight, five, ten, and four.

A Five, ten, eight, nine, two, and four. In other words, it is on five, eight, nine, two, and four. The exception of 15 and 16, which are being used for injection.

Q Mr. Keith, is there any other wells in the North Dominguez field which are being used for injection? Yes, sir, there are other wells in the North Dominguez field which are being used for injection. Yes, sir, there are other wells in the North Dominguez field which are being used for injection.

Q Now, in the event that the well is plugged, and, therefore, the Yates and the Penn Bennett formations, being sealed, and so plan to set a liner in the producing wells, including, not cemented, to set the bottom of the liner to the level I refer to as the five finger dolomite above the Penn Bennett to prevent caving from coming back into the formation. As long as we maintain our production and keep our production level down and our flood level down, I don't see why there should be any oil or water seeping back into the other well.

Q What would happen in the event one of your wells was shut in and fluid levels did rise in the well?

A In this particular area, the Upper Yates is much tighter than the Penn Bennett and it would take considerably more than hydrostatic head to inject into the Upper Yates what we would have in our well. That's all it would be, the hydrostatic head, while the well was shut down.

MR. NUTTER: Are there any further questions of Mr. Keith?

MR. PORTER: I have one.

MR. NUTTER: Mr. Porter.

QUESTION BY MR. PORTER.

Q The question I have is, assuming that the well is plugged in terms of the formation, is it still

A I have to be pragmatic. All right, your honor.

Q No, in this, either way.

A In this particular case, in the beginning.

Q Is that the spacing with the wells are drilled and present in Texas, 30' or

A One lease was developed on that, yes.

MR. NUTTER: 40' in New Mexico?

A Yes, sir.

MR. FOREER: Thank you, that's all.

MR. NUTTER: Any further questions of Mr. Keith?
If there are no further questions, the witness may be excused.
Do you have anything further, Mr. McEnnen?

MR. McENNA: I have not.

MR. NUTTER: Does anyone have anything they wish to offer in Case 1610? If there is nothing further, we will take the case under advisement.

ALL THE WORLD

COUNTY OF BERNALILLO

I, Joseph A. Bernalillo, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me in Stereotype and that the same was reduced to typewritten transcript by me and contains a true and correct record of said hearing, to the best of my knowledge, skill and ability.

DATED this 15th day of March, 1959, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Joseph A. Bernalillo
NOTARY PUBLIC

My Commission Expires:

October 5, 1960

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 1610, heard by me on 3-11, 1959.

Sanchez, Examiner
New Mexico Oil Conservation Commission

Bassay -
Send copy of this
docket with case
marked w/ red pen
to the Chairman of
the Texas Railroad Commission,
Austin Texas
Nan