Case Mo.

239

Replication, Transcript,

Small Exhibits, Etc.

Dacember 18, 1950

Mr. J. W. House Humble Oil & Refining Company Box 1600 Midland, Texas

Dear Mr. Houses

We enclose herewith, signed copy of Order R-37, issued in connection with Case 239, heard in Santa Fe, New Mexico, on November 21, 1950.

Very truly yours,

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

R. R. Spurrier Secretary-Director

RRS: be

December 18, 1950

Mr. R. T. German Magnolia Petroleum Gempany Box 633 Milland, Texas

Dear Mr. Germans

We enclose herewith, signed copy of Order R-37, issued in connection with Case 239, heard in Santa Fe, New Mexico, on November 21, 1950.

Very truly yours,

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

R. R. Spurrier Secretary-Director

RRS: bu emls.

December 18, 1950

Mr. Person Howard Shell Pipe Idna Corporation Petroleum Building Midland, Texas

Dear Mr. Hoserde

We enclose herewith, signed copy of Order R-39, issued by the Oil Conservation Commission, in connection with Case No. 238, heard in Santa Fo, New Mexico, on November 21, 1950.

Very truly yours,

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

R. R. Spurrier Secretary-Director

RRS:by

December 18, 1950

Mr. A. L. Porter, Jr. Oil Conservation Consission P. O. Box 1545 Hobbs, New Maxico

Dear Print

We enclose herewith, signed copies of Orders R-37 and R-39, issued by the Oil Conservation Commission, in connection with Gases 239 and 238 respectively, heard in Santa Fe, New Mexico, on November 21, 1950,

Very truly yours,

R. R. Spurrier Secretary-Director

RESIDE enels.

J. W. HOUSE

June 13, 1950

Rowan Oil Company Box 1873 Midland, Texas

Gentlemen:

The Humble Oil & Refining Company is the owner of an oil, gas and mineral lease dated April 28, 1927 from M. W. Coll (Humble's J. L. Greenwood lease) covering 320 acres being the S/2 of Section 9, T-22-S, R-37-E, Lea County, New Mexico which lease is recorded in Book 9, Page 122 of the Oil and Gas Lease Records of

The Humble Oil & Refining Company desires to produce from said lease, with the aid of an artificial water drive, in order to increase the recovery of oil from the preducing sands underlying said land because of the decrease in the reservoir pressure in such sands and for such purpose propose to convert wells Nos. 3, 5 and 6 on said land covered by said lease into water injection wells and to inject water by means of said wells into the producing sands underlying said land.

It is believed that under the conditions in the field in which said lease is situated the creation or attempted creation of an artificial water drive in the producing sands in said field is a reasonable producing and engineering practice.

In view of the fact that your company is the owner of a certain oil, gas and mineral lease, or leases, in the vicinity of said land it is requested that you consent and agree to the above mentioned operations. Will you please execute a copy of this letter in the space provided indicating waiver of any ebjections you might have to the proposed production procedure. This waiver applies only to the producing sands of the Penrose-Skelly some.

Yours very truly,

EMB t enec

APPROVED !

HUMBLE OIL & REFINING COMPANY

. W. HOUSE - Division Superintend

Kaseman Retate Albuquerque National Bank & Trust Company Albuquerque, New Mexico Attention: Mr. Fred Luthy The Humble Oil & Refining Company is the camer of an oil, get and mineral lease dated April 28, 1927 from N. W. Coll (Humble's J. L. Greenwood lease) covering 320 acres being the S/2 of Section 9, 1-22-3, R-37-E, Lea County, New Marrios, which lease is recorded in Book 9, Page 122 of the Oil and Cas Lease Records of seid county. Dear Mr. Luthy : The Humble Oil & Refining Company desires to produce from said lease, with the said of an ertificial water drive, in order to increase the recovery of oil from the producing saids underlying said land because of the decrease in the paser woir pressure in such sands and for such purpose propose to convert wells and voir pressure in such sands by said land covered by said land to the producing sands under ying said inject water by means of said wells into the producing sands under ying said inject water by means of said wells into the producing sands under ying said. It is believed that under the conditions is to find in the steel the greation or attempted creation of the art find is a reasonable possessing and suducing sends in said field is a reasonable possessing and suducing sends in said field is a reasonable possessing and suducing sends in said field is a reasonable possessing and suducing sends in said field is a reasonable possessing and suducing sends in said field is a reasonable possessing and suducing sends in said field in the said field in t In view of the fact that you are the owner of an interest mineral lease, or leases, in the vicinity of said land sent and agree to the above mentioned operations. Said sent and agree to the above mentioned indicating seasons of this letter in the space provided indicating seasons have to the proposed production procedure. EMB temo APPROVED Kabelah Rstatr ALBUQUERQUE NATIO

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(dall-see) The Humble Oil & Refining Company is the owner of an oil ges and minoral lease detect for 1 26, 1927 from M. W. Call (Heable's 1 10 Greenwood lease) towering 300 series being the 9/2 of Section 9 1-22-5 \$277-5, Lea Commity, New Mexico, which lease is recorded in Book 9, Page 122 of the Cil and Cas Lease Records of said possibly. The Hemble Oil & Refining Company desires to produce from said lease, with the The Hemble Oil & Refining Company desires to produce from said lease, with the sid of an artificial sever drive in order to increase the recovery of oil from the producing sends underlying said lead become of the decrease in the reserving of producing sends underlying said lead to see and lease of said lead to lease to be said lead decrease by said lease the motion underlying said lead. It is believed that under the conditions in the field in which said lease is situated the creation of the properties of In view of the fact that year company is the expect of contain all gas and mineval lease, or leases in the victim of mid and it is requested that you coneach and agree to the shore manifector one will year blease execute a copy
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STREET OIL SCHOOL SCHOOL Superintendent STURES OIL COMPANY. on le loui

HUMBLE OIL & REFINING COMPANY MIDLAND, TEXAS Jude 13, 1950

Continental Oil Company Box, 431 Midland, Texas

Gentlemen:

J. W. HOUSE

The Humble Oil & Refining Company is the owner of an oil, gas and mineral lease dated April 28, 1927 from M. W. Coll (Humble's J. L. Greenwood lease) covering 320 acres being the S/2 of Section 9, T-22-S, R-37-E, Lea County, New Mexico which lease is recorded in Book 9, Page 122 of the Oil and Gas Lease Records of said county.

The Humble Oil & Refining Company desires to produce from said lease, with the aid of an artificial water drive, in order to increase the recovery of oil from the producing sands underlying said land because of the decrease in the reservoir pressure in such sands and for such purpose propose to convert wells Nos. 3, 5 and 6 on said land covered by said lease into water injection wells and to inject water by means of said wells into the producing sands underlying said land.

It is believed that under the conditions in the field in which said lease is situated the creation or attempted creation of an artificial water drive in the producing sands in said field is a reasonable producing and engineering practice.

In view of the fact that your company is the owner of a certain oil, gas and mineral lease, or leases, in the vicinity of said land it is requested that you consent and agree to the above mentioned operations. Will you please execute a copy of this letter in the space provided indicating waiver of any objections you might have to the proposed production procedure.

Yours very truly,

BY . I S

HUMBLE OIL & REFINING COMPANY

W. HOUSE - Division Superintendent

EMB: enc

APPROVED

CONTINENTAL OIL COMPANY

Regional Manager Fort Worth Region Production Department

Humble Oil & Refining Company MIDLAND, TEXAS June 13, 1950 J. W. HOUSE Skelly Oil Company Box 993 Midland, Texas The Humble Oil & Refining Company is the owner of an eil, gas and mineral lease dated April 28, 1927 from M. W. Coll (Humble's J. L. Greenwood lease) covering 320 acres being the 8/2 of Section 9, T-22-S, R-37-E, Lea County New Mexico which lease is recorded in Book 9, Page 122 of the Oil and Gas Lease Records of Gentlement The Humble Oil & Refining Company desires to produce from said lease, with the sid of an artificial water drive, in order to increase the recovery of oil from the producing sands underlying said land because of the decrease in the reservoir pressure in such sands and for such purpose propose to convert wells Hose voir pressure in such sands and for such purpose propose to convert wells Hose voir pressure in such sands and for such purpose propose to convert wells Hose into water injection wells and to inject water by means of said wells into the producing sands underlying said land. said county. It is believed that under the conditions in the field in which said lease is situated the creation or attempted creation of an artificial water drive in the producing sands in said field is a reasonable producing and engineering practice. In view of the fact that your company is the owner of a certain oil, gas and min-eral lease, or leases, in the vicinity of said land it is requested that you com-sent and agree to the above mentioned eperations. Will you please execute a copy of this letter in the space provided indicating miver of any objections you might have to the proposed production procedure. Yours very truly, HUMBLE OIL & REFINING COMPANY er Re W. HOUSE - Division Superintendent RMB : enc APPROVED:

STANOLIND OIL AND GAS COMPANY FORT WORTH, TEXAS July 11, 1950. C.F. BEDFORD
DIVISION PRODUCTION SUPERINTENDENT File: BRL-8882-174 Subject: Request for Waiver by
Humble Oil and Refining
Company, Lea County, New Mexico. New Mexico Oil Conservation Commission Santa Fe, New Mexico We have been advised by the Humble Oil Company of its intention to inject water into Wells Nos. 3, 5, and 6 on its J. L. Greenwood Lease in Section 9, T-22-S, R-37-E, Lea County, New Mexico. Gentlemen: As the operator of an offset lease, we hereby waive rights of objection to the above procedure. Very truly yours, LHB/ek

Neville G. Penrose, Incorporated Fair Building Fort Worth, Texas

#### Gentlemen:

The Humble Oil & Refining Company is the owner of an oil, gas and mineral lease dated April 28, 1927 from M. W. Coll (Humble's J. L. Greenwood lease) covering 320 acres being the 8/2 of Section 9, T-22-S, R-37-E, Lea County, New Mexico which lease is recorded in Book 9, Page 122 of the Oil and Gas Lease Records of said county.

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It is believed that under the conditions in the field in which said lease is situated the creation or attempted creation of an artificial water drive in the producing sands in said field is a reasonable producing and engineering practice.

In view of the fact that your company is the owner of a certain oil, gas and mineral lease, or leases, in the vicinity of said land it is requested that you consent and agree to the above mentioned operations. Will you please execute a copy of this letter in the space provided indicating waiver of any objections you might have to the proposed production procedure.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

EMB : ewo

APPROVED:

NEVILLE G. PENROSE, INCORPORATED

BY CUTTO W. HOUSE - Division Superintendent

# HUMBLE OIL & REFINING COMPANY MIDLAND, TRYAS June 13, 1950

J. W. HOUSE

Magnolia Petroleum Company Bex 633 Midland, Texas

Gentlemen:

The Humble Oil & Refining Company is the owner of an oil, gas and mineral lease dated April 28, 1927 from M. W. Coll (Humble's J. L. Greenwood lease) covering 320 acres being the S/2 of Section 9, T-22-S, R-37-E, Lea County, New Mexico which lease is recorded in Book 9, Page 122 of the Oil and Gas Lease Records of

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It is believed that under the conditions in the field in which said lease is situated the creation or attempted creation of an artificial water drive in the producing sands in said field is a reasonable producing and engineering practice.

In view of the fact that your company is the owner of a certain oil, gas and mineral lease, or leases, in the vicinity of said land it is requested that you consent and agree to the above mentioned operations. Will you please execute a copy of this letter in the space provided indicating waiver of any objections you might have to the proposed production procedure.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

W. HOUSE - Division Superintendent

EMBIONC

APPROVED:

MAGNOLIA PETROLEUM COMPANY

Position:

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## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW LEXICO

IN THE MATTER OF THE APPLICATION OF HUMBLE OIL AND REFINING COMPANY AND MAGNOLIA PETROLEUM CORPORATION FOR PERMISSION TO INJECT WATER FOR SECONDARY RECOVERY OF OIL FROM CERTAIN MARGINAL WELLS IN THE PENROSE-SKELLY POOL IN IEA COUNTY, NEW MEXICO.

CASE NO. 239 ORDER NO. R-37

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This matter came on for hearing at Santa Fe, New Mexico, on 21 November 1950.

The Commission having heard the evidence presented and having taken the case under advisement finds:

- 1. It has jurisdiction of this case and of the parties interested therein, due notice of this hearing having been given.
- 2. It would be in the interests of conservation and would prevent the waste of oil to permit the petitioner to conduct a water injection program as prayed for in the petition.

#### IT IS THEREFORE ORDERED:

- 1. Humble Oil and Refining Company and Magnolia Petroleum Corporation are hereby granted permission to inject water for secondary recovery in the Penrose-Skelly Pool in Lea County, New Mexico on the following leases:
  - J. L. Greenwood Lease:
    St. Sec. 9, Twp. 22 S., Rge. 37 E; and
    Brunson-Argo Lease:
    NEt Sec. 9, Twp. 22 S., Rge. 37 E., and
    NWA Sec. 10, Twp. 22 S., Rge. 37 E.
- 2. The intake wells shall be those wells located in the following subdivisions:

SWI NEI Sec. 9
SWI SWI Sec. 9
NEI SEI Sec. 9
SWI SEI Sec. 9
All in Twp. 22 S., Rge. 37 E.

3. Rules 702, 703 and 704 of this Commission shall be adhered to by the petitioner.

DONE at Santa Fe, New Mexico, on this 15th day of December, 1950.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

THOMAS J. MABRY, CHAIRMAN

R. R. SPURRIER, SECRETARY

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awaiting RRS sign

### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO IN THE MATTER OF THE APPLICATION OF HUMBLE OIL AND REFINING 3

COMPANY AND MAGNOLIA PETROLEUM CORPORATION FOR PERMISSION TO INJECT WATER FOR SECONDARY RECOVERY OF OIL FROM CERTAIN MARGINAL WELLS IN THE GRAYBURG RESERVOIR, PENROSE-SKELLY, IN LEA COUNTY, NEW MEXICO.

CASE NO. 239

ORDER NO. R-37

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BY THE COMMISSION:

This matter came on for hearing at Santa Fe, New Mexico, on 21 November 1950, the petitioner being represented by Robert

ORDER OF THE COMMISSION

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The Commission having heard the evidence presented and having taken the case under advisement finds:

1. It has jurisdiction of this case and of the parties 13 interested therein, due notice of this hearing having been given.

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2. It would be in the interests of conservation and would prevent the waste of oil to permit the petitioner to conduct a water injection program as prayed for in the petition.

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#### IT IS THEREFORE ORDERED BY THE COMMISSION AS FOLLOWS:

1. Humble Oil and Refining Company and Magnolia Petroleum Corporation are hereby granted permission to inject water for secondary recovery in the Grayburg Reservoir of the Penrose-Skelly Pool in Lea County, New Mexico on the following leases:

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J. L. Greenwood Lease:  $S_{2}^{\perp}$  Sec. 9, Twp. 22 S., Rge. 37 E; and Brunson-Argo Lease:  $NE_{4}^{1}$  Sec. 9, Twp. 22 S., Rge. 37 E., and  $NW_{4}^{1}$  Sec. 10, Twp. 22 S., Rge. 37 E.

22 23

2. The intake wells shall be those wells located in the following subdivisions:

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 $SW_{\frac{1}{4}}^{\frac{1}{4}} NE_{\frac{1}{4}}^{\frac{1}{4}} Sec. 9$ All in Twp. 22 S., Rge. 37 E.

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3. Rules 702, 703, and 704 of this Commission shall be adhered to by the petitioner.

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Done at Santa Fe, New Mexico, on this day of December 1950.

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STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

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Thomas J. Mabry, Chairman Guy Shepard, Member R. R. Spurrier, Secretary . A

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Swald by beland Nov. 21

Midland, Texas September 21, 1950 011 COMP 3 1950

of Malrain

File: 3-14

Re: Proposed Water Injection

Penrose Skelly Field

New Mexico Conservation Commission Santa Fe, New Mexico

#### Gentlemen:

Permission is requested to inject water in the Grayburg reservoir, Penrose-Skelly Field, Lea County, New Mexico, on the Humble Oil & Refining Company - J. L. Greenwood Lease and the Magnolia Petroleum Company - Brunson-Argo lease. This is a dolomite reservoir producing under a combination of dissolved gas and gascap drive and is practically depleted by primary means. In March 1950, the average Grayburg production on each lease was 4 bbl/day/well. Primary recovery on the Greenwood lease has been approximately 1100 bbl/acre and on the Brunson lease approximately 1200 bbl/acre. Prior to abandonment of any wells it is believed desirable to conduct a water injection experiment to determine the possibilities of increasing the ultimate recovery by secondary recovery methods.

The accompanying Figure 1 shows the location of the 4 proposed intake wells and the location of all oil and gas wells, including drilling wells and dry holes, and the names of lessees within one-half mile of the intake wells, and each offset operator. Wells are producing from the Grayburg, San Angelo, Glear Fork and Ellenburger pays. Since there are 4 pays producing in this area, Figure 2 has been prepared to show only those wells currently completed in the Grayburg pay. Water injection will be in the Grayburg pay, which is a crystalline dolomite at a depth of approximately 3600 feet.

Only one well, Greenwood 5, has an electric log, which is attached. Very little information on the pay sections is available. Completion data on the propose, injection wells are listed in the accompanying Table 1. Also the casing programs on the injection wells are given in Table 1.

New Mexico Conservation Commission Santa Fe, New Mexico September 21, 1950 Page 2

It is proposed to test the casing by bailing. Water will be obtained from shallow fresh water wells on the leases. The amount of water to be injected will depend on the capacity of the input wells. It is estimated that approximately 2000 bbl/day will be available when injection starts.

The operators initially injecting water will be Humble Oil & Refining Company, Box 1600, Midland, Texas, and Magnolia Petroleum Company, Box 633, Midland, Texas. It is requested that a date be set for an open hearing to give an opportunity to present evidence in this matter, in order to obtain permission to conduct the operations outlined in this letter.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By: J. W. HOUSE

Division Superintendent

MAGNOLIA PETROLEUM COMPANY

R. T. GERMAN

Division Superintendent

WLC/rs

TABLE 1
COMPLETION DATA - PROPOSED INJECTION WELLS - PENROSE-SKELLY FIELD

Company Lease & Well No.	Completion Date	Total Depth -Ft.	Surfac Siring Size -In.	<u>g</u>	011 St Size	ring Depth	Top of Pay -Feet	Feet of Pay	Init Prod Bbl/ Day	ial uction	Gallons Acid	Shot	Size Open Hole
Humble J. L. Greenwood 3	10-24-38 7-21-47	3705	9-5/8	439	7	3600	<b>36</b> 05	100	192 4	2453	none none	none 36 qt 90 ft marble	
J. L. Greenwood 5	3-28-40 5-12-49	<b>37</b> 25 <b>374</b> 8 P.B.	9-5/8	<b>426</b>	7 5-1/2	3629 3748* P.B.	3662	<b>63</b>	384 Temp		3000 ened to I	addock	6-1/4, plugged
J. L. Greenwood 6	4-20-40	3715	9-5/8	447	7 7	3624	3630	85	468	1239	3000	nore	6-1/4
Magnolia Brunson-Argo 8	1-15-40 1941 1946	3740	9-5/8	1171	7	3610	3618	30	<b>7</b> 5		300	250 380	6-1/4

<sup>\* 5-1/2-</sup>inch liner 3531 to 5246, plug back depth 3748 ft.

| Elder & | Willingham Repollo Sinciair Cities Service & Repollo Cities Service Ohlo Gulf Skelly •20 Cities Service •18 •30 Elder & Willingham Cities Service & Re Tidewater Gulf Tidewoter 3 Rollo Brunson . 20 10.00 20 20 R.L. Brunson Jas.W.Grizzell Bakers 5 Glifton Sticher 10 9 8 Magnolia Magnotia Rowan B Panrose 60<sub>0 0</sub>3P 16 8 a 3 17 D .4, . •••• 0<sup>0</sup>0118 101048 T - 22 - S R - 37 - E Stanolind # 38 7.0120 15 D . 80 P 5P. 4D E. M. Elliot Fee Brunson- Argo Brunson-Argo Brunson Skelly • 13 P Shell Humble OF IT. A.I .2 313B .4.5 \*10.7 10. **€128** oʻ •14B •14B A. B. Baker L. E. Grizzel J. L. Greenwood Cont.1.17 16 15 Penrose Two - States - Kaseman Rowan Gulf Cole A Coles 38 .57 • .70 State Elliott Rowan C" # Penrose "0" e1 Penrose & Glower E.W. Walden SCALE 1000 Elliott Christmas State - LEGEND-B - Brunson O - Orinkord PENROSE - SKELLY FIELD AREA ADJAGENT TO J.L. GREENWOOD LSE. P - Paddock SH-South Hore (T.A.) - Temp. Aband. HUMBLE OIL & REFINING COMPANY
CIVIL ENGINEERING DIVISION
MIDL AND, TEXAS

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