

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501

July 23, 1975

Mr. Erd M. Johnson
Reserve Oil and Gas Company
First Savings Building
Midland, Texas 79701

Re: CASE NO. 5528
ORDER NO. R-5072

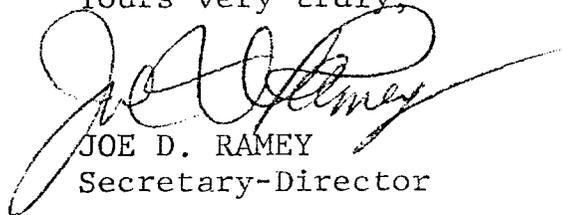
Applicant:

Reserve Oil and Gas Company

Dear Sir:

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

Yours very truly,



JOE D. RAMEY
Secretary-Director

JDR/fd

Copy of order also sent to:

Hobbs OCC x
Artesia OCC
Aztec OCC

Other Bettis, Boyle & Stovall, Graham, Texas; Continental

Oil Company, Hobbs, New Mexico; Maralo, Inc., Midland, Texas

Memo

From

R. L. STAMETS
Technical
Support Chief

To

Jerry Losee called
7-11-75 and asked
if this could be
approved administratively.
Checked out OK.
to be approved by WFX.

DISMISS

RESERVE OIL AND GAS COMPANY

FIRST SAVINGS BUILDING, MIDLAND, TEXAS 79701
TELEPHONE: 915/682-4341

June 10, 1975

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

Attention Mr. Joe D. Ramey

Re: Application of Reserve Oil and Gas
Company to Expand South Langlie
Jal Unit Waterflood Project

Gentlemen:

New Mexico Oil Conservation Commission Order No. R-4022A, dated October 14, 1970, authorized Reserve Oil and Gas Company to initiate a waterflood project in the South Langlie Jal Unit, Jalmat Oil Pool, by the injection of water into the Seven Rivers and Queen formations through ten injection wells. The injection of water into the ten authorized wells was commenced April 16, 1971. On January 12, 1972, New Mexico Oil Conservation Commission Order R-4240 authorized the expansion of the waterflood project to include South Langlie Jal Unit Well No. 23 as a water injection well. Water injection into this well commenced February 4, 1972. As of May 1, 1974, a total of 7,202,336 barrels of water has been injected into the eleven injection wells.

Reserve requests authorization to convert the following wells to water injection wells:

<u>Well No.</u>	<u>Unit Letter</u>	<u>Location</u>
SLJU No. 24	O	1650' FEL & 660' FSL, Sec. 18, T-25-S, R-37-E, Lea County, New Mexico
SLJU No. 26	M	330' FWL & 330' FSL, Sec. 17, T-25-S, R-37-E, Lea County, New Mexico

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In support of this application, the following exhibits are attached:

- Exhibit A Map of South Langlie Jal Unit Area
- Exhibit B Diagrammatic Sketch of Typical Well Log and
 Vertical Limits, South Langlie Jal Unit
- Exhibit C Log of South Langlie Jal Unit No. 24
- Exhibit D Log of South Langlie Jal Unit No. 26
- Exhibit E Diagrammatic Sketch of South Langlie Jal Unit No. 24
- Exhibit F Diagrammatic Sketch of South Langlie Jal Unit No. 26
- Exhibit G Production History of Wells Offsetting Proposed
 Injection Wells
- Exhibit H Production History of Proposed Injection Wells
- Exhibit I Production and Injection History of South Langlie Jal Unit

The conversion of South Langlie Jal Unit Wells No. 24 and 26 to injection wells will result in an improvement of the injection pattern of the waterflood project which should result in a more thorough and efficient sweep of the oil by the waterflood. Exhibit A indicates the location of the existing and proposed injection wells in the area.

It is proposed to inject approximately 350 barrels of water per day into the Seven Rivers and Queen formations of each of the proposed injection wells as indicated on Exhibit B. Injection will be down 2 3/8" internally coated tubing below a tension type packer set approximately 50 feet above the perforated interval or casing seat as indicated on Exhibits C and D. The tubing-casing annulus will contain fresh water inhibited for corrosion protection. The water for injection will be purchased from the Skelly water system. This water is saline and classified as non-potable. In addition to the water purchased from Skelly, the produced water from the Unit will also be injected.

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As indicated on Exhibit G, South Langlie Jal Unit Wells 20 and 22 (which offset the proposed injection wells) have experienced a substantial response to the water injection project. South Langlie Jal Unit Wells 25 and 27, which also offset the proposed injection wells, have not yet experienced a response to the water injection project.

A copy of this application has been sent to the offset operators listed below via certified mail.

Your consideration of this application will be greatly appreciated.

Very truly yours,

RESERVE OIL AND GAS COMPANY



Erd M. Johnson

ck

Attachments

cc: Bettis, Boyle & Stovall
P. O. Box 1168
Graham, Texas 76046

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

Maralo, Inc.
P. O. Box 832
Midland, Texas 79701

DOCKET MAILED

Date 7/7/75