

CASE NO.

5528

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APPLICATION,  
TRANSCRIPTS,  
SMALL EXHIBITS,

ETC.

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. 5528  
Order No. R-5072

APPLICATION OF RESERVE OIL AND GAS  
COMPANY FOR WATERFLOOD EXPANSION,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 16, 1975,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 22nd day of July, 1975, the Commission,  
a quorum being present, having considered the record and the  
recommendations of the Examiner, and being fully advised in  
the premises,

FINDS:

That the subject application has been processed adminis-  
tratively and Case No. 5528 should be dismissed.

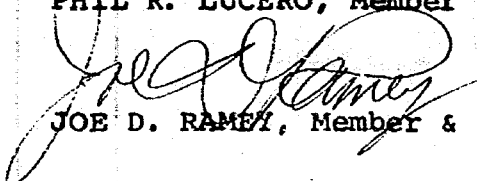
IT IS THEREFORE ORDERED:

That Case No. 5528 is hereby dismissed.

DONE at Santa Fe, New Mexico, on the day and year herein-  
above designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
PHIL R. LUCERO, Member

  
JOE D. RAMIREZ, Member & Secretary

  
S E A L

dr/

**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

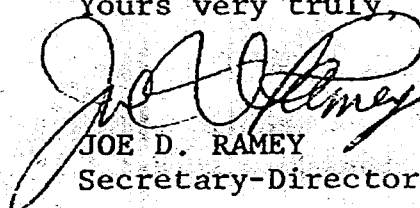
Applicant:

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

BEFORE THE  
CO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
July 16, 1975

**EXAMINER HEARING**

**IN THE MATTER OF:**

**Application of Reserve Oil and Gas  
Company for waterflood expansion,  
Lea County, New Mexico.**

**Case No.**  
**5528**

**BEFORE: Daniel S. Nutter, Examiner.**

# TRANSCRIPT OF HEARING

### A P P E A R A N C E S

For the New Mexico Oil  
Conservation Commission:

William Carr, Esq.  
Legal Counsel for the  
Commission  
State Land Office Bldg.  
Santa Fe, New Mexico

**THE NYE REPORTING SERVICE**  
STATE-WIDE DEPOSITION NOTARIES  
225 JOHNSON STREET  
SANTA FE, NEW MEXICO 87501  
TEL. (505) 962-0386

MR. NUTTER: Call Case 5528.

MR. CARR: Case 5528. Application of Reserve Oil and Gas Company for waterflood expansion, Lea County, New Mexico.

MR. NUTTER: Case No. 5528 will be dismissed inasmuch as this Application has been handled administratively.

THE NYE REPORTING SERVICE  
STATE-WIDE DEPOSITION NOTARIES  
225 JOHNSON STREET  
SANTA FE, NEW MEXICO 87501  
TEL. (505) 982-0386

STATE OF NEW MEXICO     )  
                                  )  
COUNTY OF SANTA FE     )     SS.

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

  
RICHARD L. NYE, Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5528, heard by me on July 16, 1975.

  
Examiner  
New Mexico Oil Conservation Commission

THE NYE REPORTING SERVICE  
STATE-WIDE DEPOSITION NOTARIES  
225 JOHNSON STREET  
SANTA FE, NEW MEXICO 87501  
TEL. (505) 982-0386

# 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



## New Mexico Oil Conservation Commission

Page 2

June 10, 1975

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.

New Mexico Oil Conservation Commission

Page 3

June 10, 1975


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

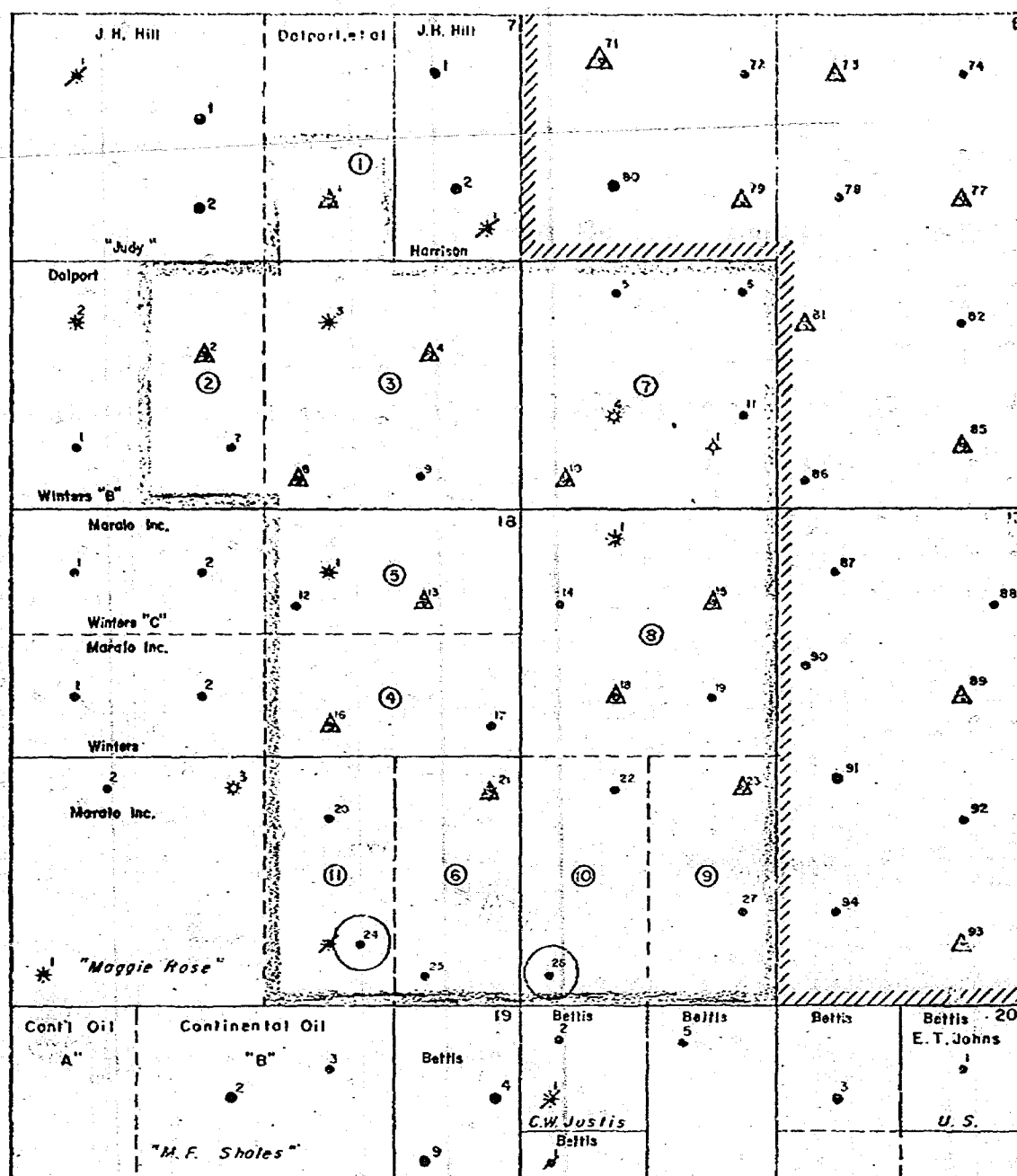
Continental Oil Company  
P. O. Box 460  
Hobbs, New Mexico 88240

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

DOCKET MAILED

Date 7/7/75

T  
25  
S



○ Proposed Injection Well

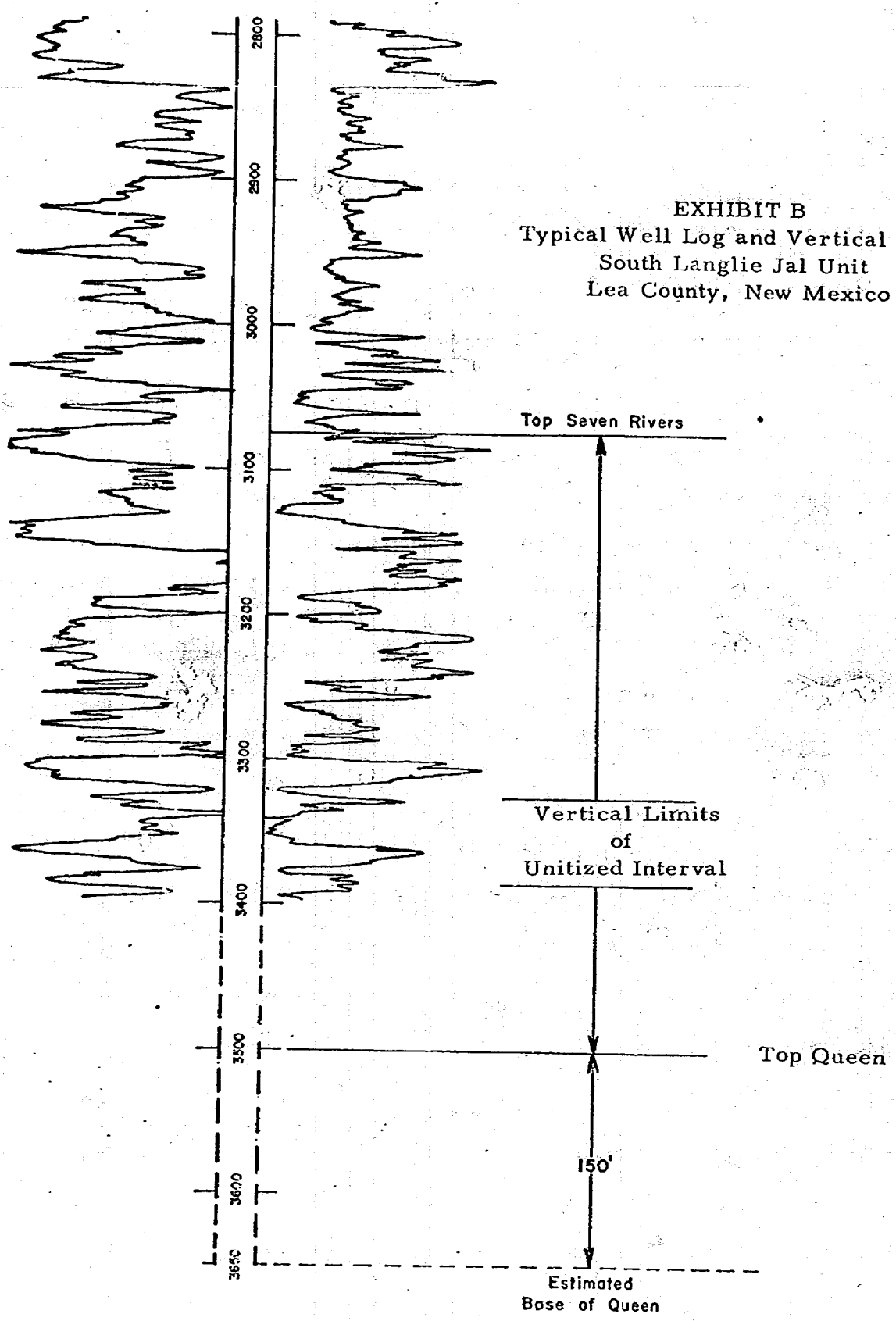
GRAPHIC SCALE FEET

0 500 1000

DATE	DATE	RESERVE OIL & GAS Company
DATE	DATE	
DATE	DATE	
DATE	DATE	

RESERVE OIL AND GAS COMPANY  
South Langlie Jal Unit No. 18  
Sec. 17, T-25-S, R-37-E

EXHIBIT B  
Typical Well Log and Vertical Limit  
South Langlie Jal Unit  
Lea County, New Mexico



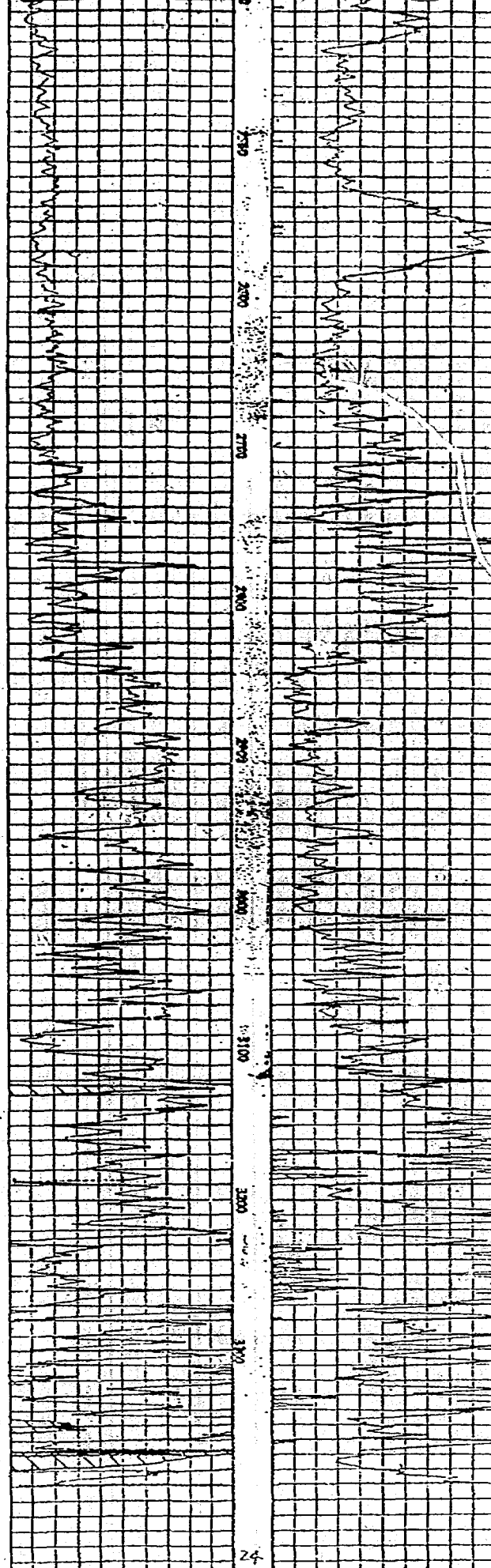


EXHIBIT C  
Log of South Langlie Jal Unit  
Well No. 24

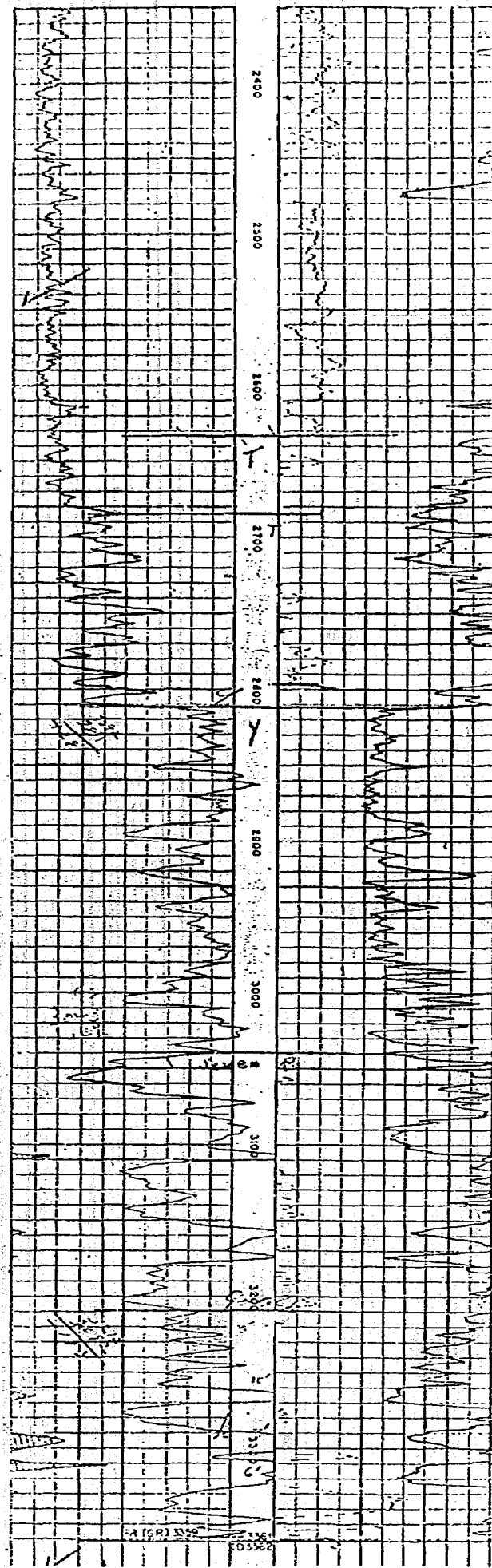


EXHIBIT D  
Log of South Langlie Jal Unit  
Well No. 26

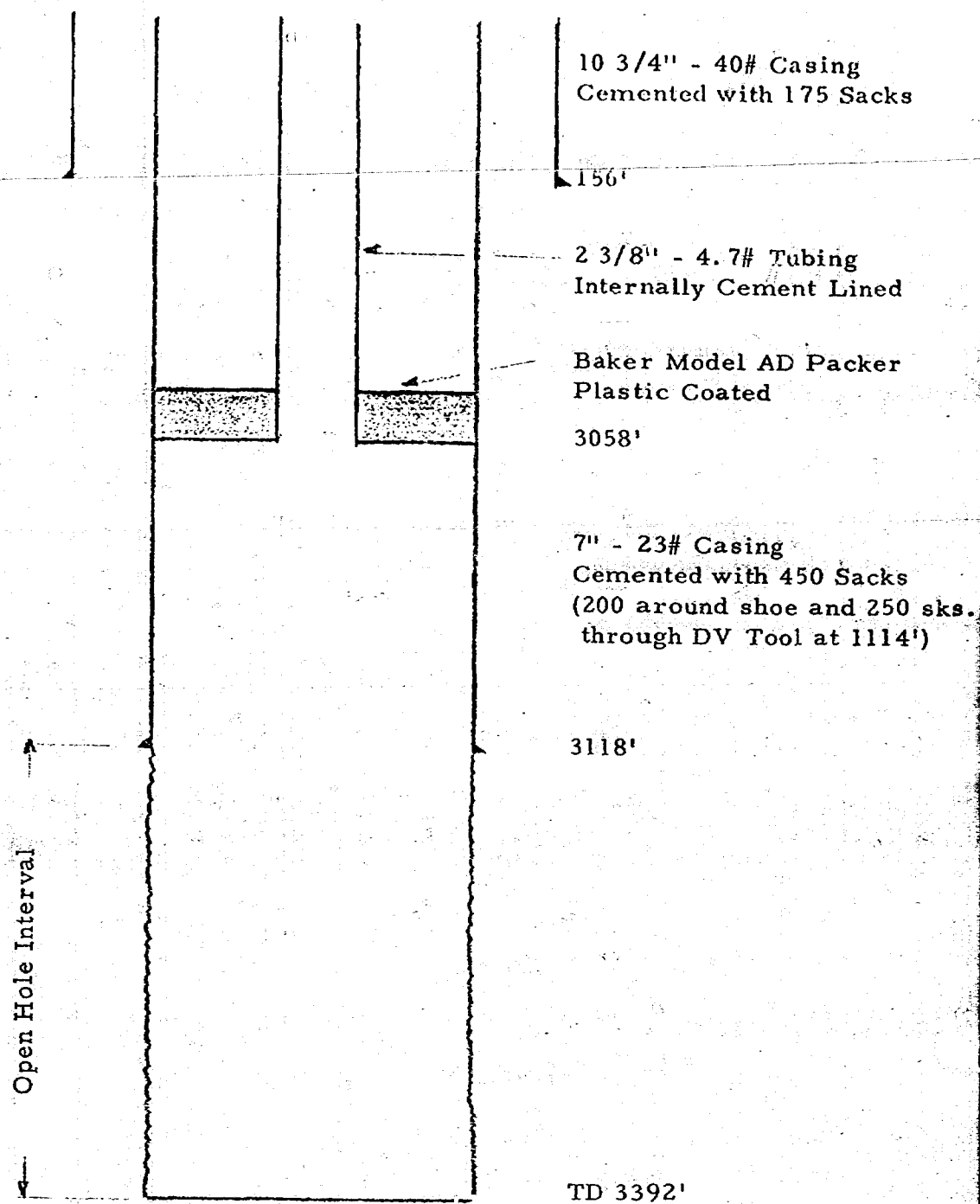


EXHIBIT E  
Schematic Diagram  
Reserve Oil and Gas Company  
South Langlie Jal Unit No. 24  
Jalmat Oil Pool  
Lea County, New Mexico

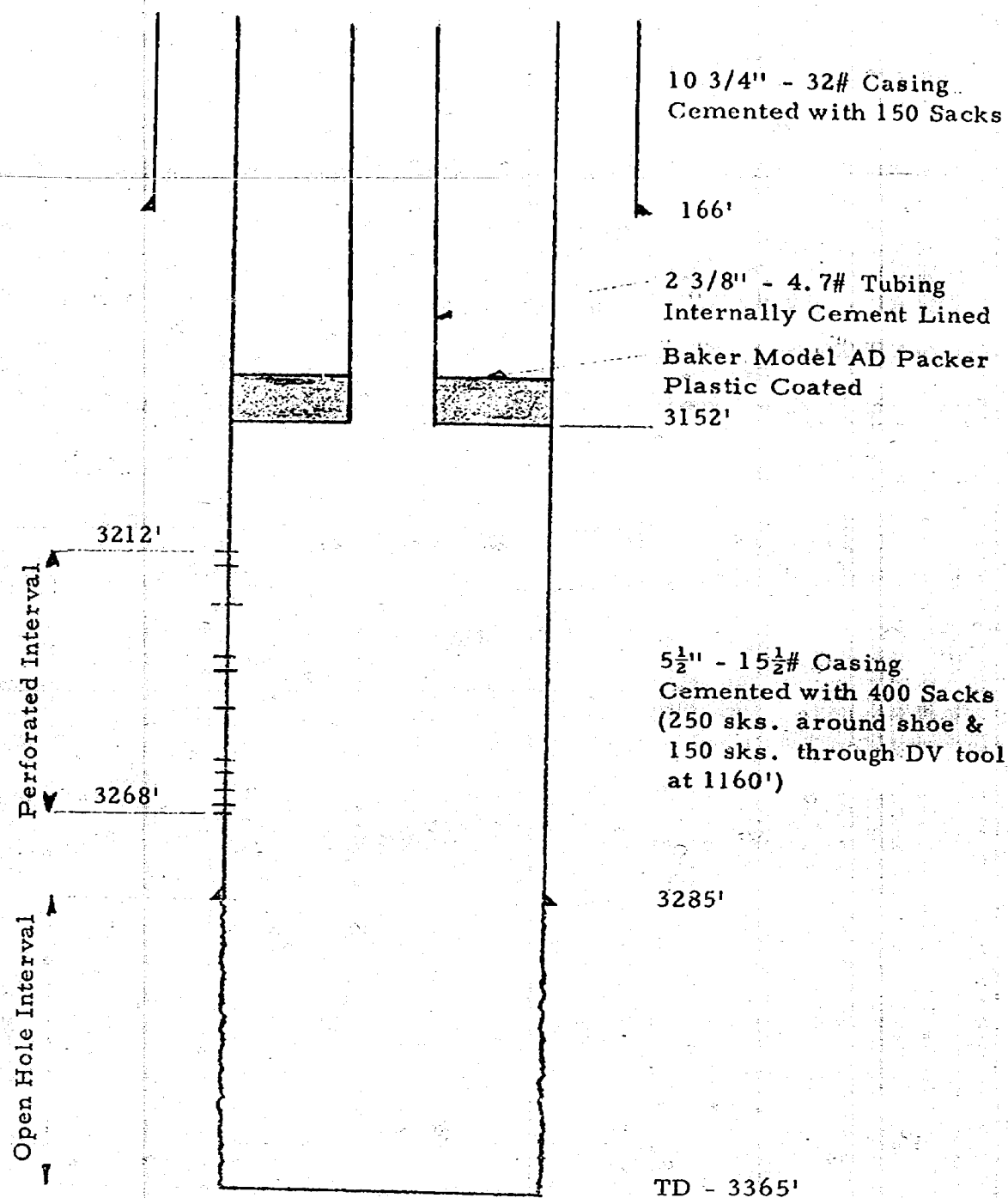


EXHIBIT F  
Schematic Diagram  
Reserve Oil and Gas Company  
South Langlie Jal Unit No. 26  
Jalmat Oil Pool  
Lea County, New Mexico



JAL UNIT NO. 22

SOUTH LANGLEIE JAL UNIT NO. 25

SOUTH LANGLEIE JAL UNIT NO. 27

ly Oil Production

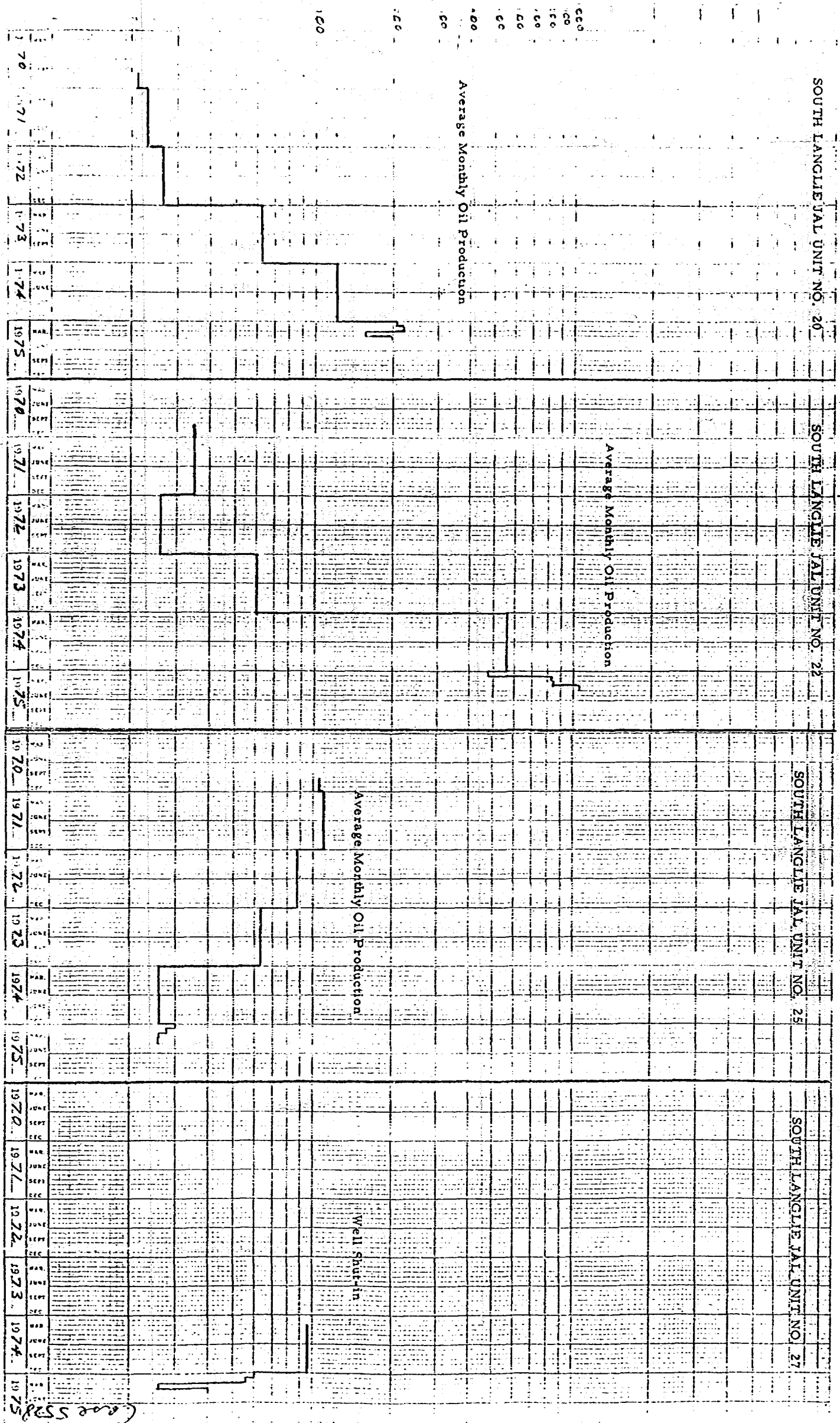
Average Monthly Oil Production

Well Shut-in

1973 1974 1975 1970 1971 1972 1973 1974 1975 1970 1971 1972 1973 1974 1975

EXHIBIT C

# OIL PRODUCTION (BARRELS PER MONTH)



(Case 5528)

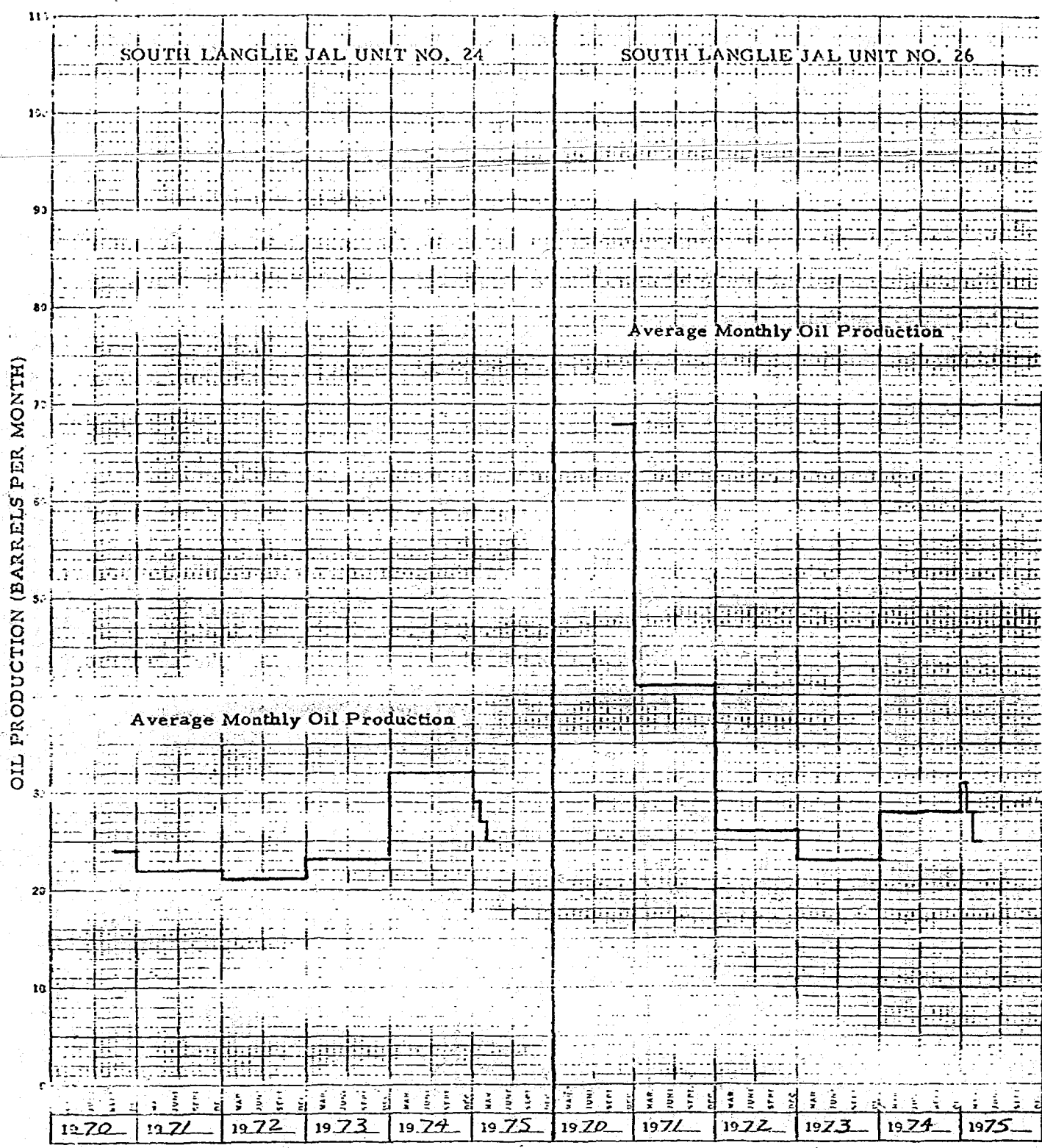
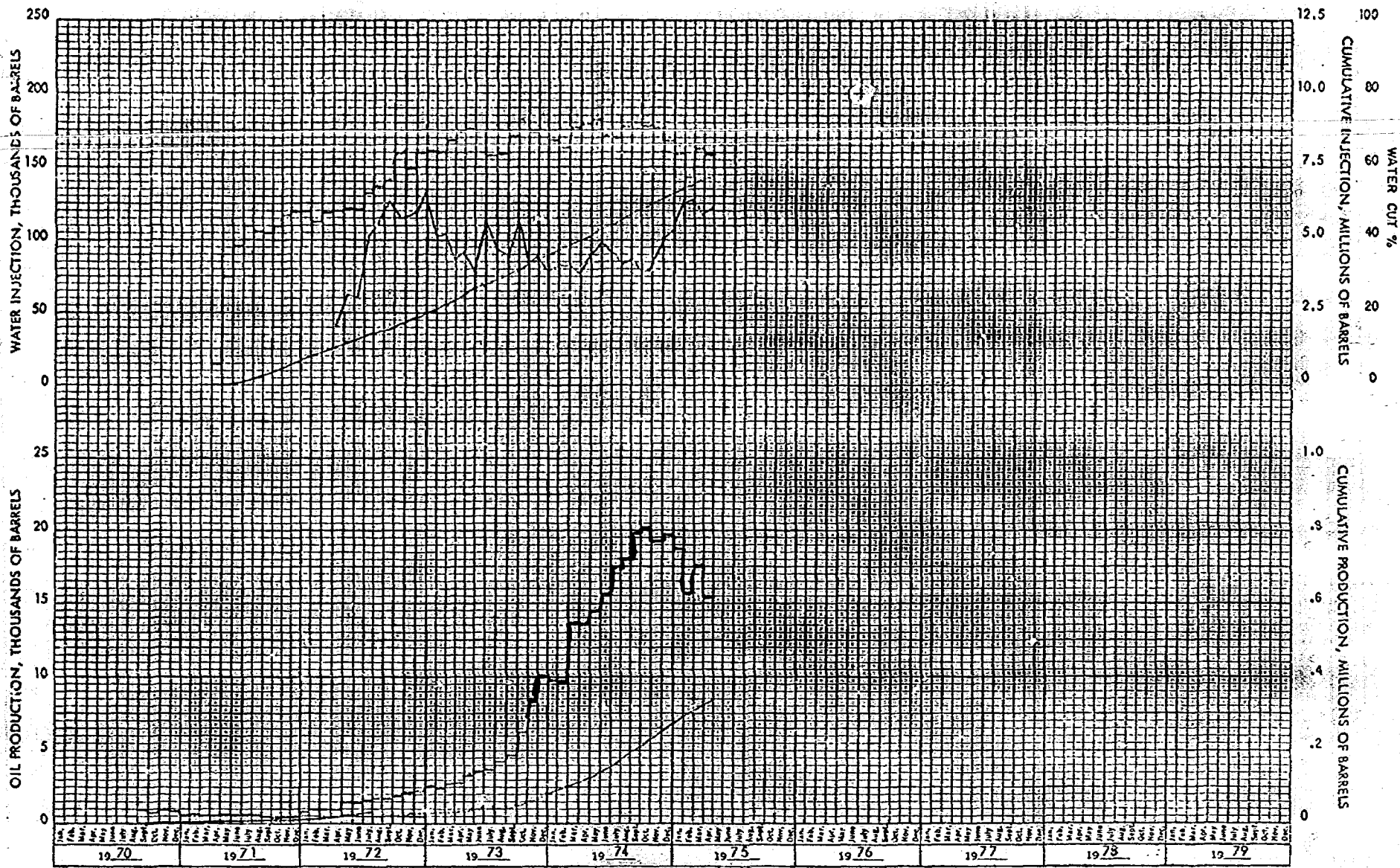


EXHIBIT H.



MONTHLY PERFORMANCE  
SOUTH LANGLIE-JAL UNIT  
LEA COUNTY, NEW MEXICO

EXHIBIT I

Case 5528

- CASE 5526: Application of Austral Oil Company for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Blanco-Mesaverde and Basin-Dakota production in the wellbore of its Bunny Well No. 1, located in Unit P of Section 10, Township 27 North, Range 9 West, San Juan County, New Mexico.
- CASE 5527: Application of Plains Radio Broadcasting Company for an exception to the provisions of Order No. R-3221, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to the provisions of Commission Order No. R-3221, permission to dispose into earthen pits produced salt water from its L. E. Ranch 9 Wells Nos. 1, 2, and 3, located, respectively, in Units O, N, and I of Section 9, and its L. E. Ranch 16 Wells Nos. 2 and 3, located, respectively, in Units B and A of Section 16, all in Township 11 South, Range 28 East, East Chisum-San Andres Pool, Chaves County, New Mexico.
- CASE 5528: Application of Reserve Oil and Gas Company for waterflood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its South Langlie-Jal Langlie Mattix Waterflood Project in the Langlie Mattix pool by the conversion to water injection of its Unit Wells Nos. 24 and 26 located, respectively, in Unit O of Section 18 and Unit M of Section 17, both in Township 25 South, Range 37 East, Lea County, New Mexico.
- CASE 5529: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to consider the creation of a new gas pool for Morrow production, said to be designated Sheep Draw-Morrow Gas Pool to comprise the E/2 of Section 11 and the W/2 of Section 12, Township 23 South, Range 25 East, Eddy County, New Mexico.
- CASE 5530: Application of Cities Service Oil Company for the amendment of Order No. R-5052, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-5052, which order pooled all mineral interests in the Wolfcamp formation underlying the SE/4 of Section 30, Township 21 South, Range 27 East, and in the Pennsylvanian formation underlying the E/2 of said Section 30, to be dedicated to a well drilled at an orthodox location for both formations. Applicant proposes the amendment of said order to provide for an unorthodox location for said well at a point 1980 feet from the South line and 2190 feet from the East line of said Section 30.
- CASE 5531: Application of Oil Development Company of Texas for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the open-hole interval from 5,000 to 5,150 feet in its SFPRR Well No. 6, located in Unit D of Section 33, Township 9 South, Range 37 East, West Sawyer-San Andres Pool, Lea County, New Mexico.

DRAFT

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

dr/

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

APPLICATION OF RESERVE OIL AND  
GAS COMPANY FOR WATERFLOOD  
EXPANSION, LEA COUNTY, NEW  
MEXICO.

CASE NO. 5528

Order No. R- 5072

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 16, 1975,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this \_\_\_\_\_ day of July, 1975, the Commission,  
a quorum being present, having considered the record and the recom-  
mendations of the Examiner, and being fully advised in the premises,

FINDS:

*subject application has been processed adminis-*  
That the ~~applicant's request for dismissal should be~~  
~~granted.~~ *negatively and the Case No. 5528 should be*  
*dismissed*

IT IS THEREFORE ORDERED:

That Case No. 5528 is hereby dismissed.

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