

LAW OFFICES

LOSEE AND STEWART

CARPER BUILDING - P. O. DRAWER 239

ARTESIA, NEW MEXICO

AREA CODE 505

746-3508

A. J. LOSEE

EDWARD B. STEWART

1 September 1964

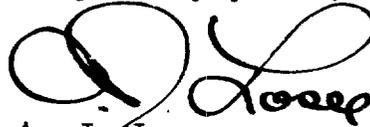
Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Porter:

Enclosed herewith you will please find three copies of the Application of Neil E. Salsich, Jr., for authority to convert his Featherstone No. 2 and 3 wells in the Square Lake Field, Eddy County, New Mexico, to water injection.

In the event you do not have any objections to this proposed conversion within fifteen days, we shall appreciate your favorable consideration, for administrative approval, of the enclosed application. If there is any further information I can furnish you in this matter, please let me hear from you.

Very truly yours,



A. J. Losee

AJL/bk
Enclosures

cc Mr. Neil E. Salsich, Jr.
411 N. Loraine
Midland, Texas

Mr. Orlando Briscoe
Loco Hills, New Mexico

State Engineer
Capitol Building
Santa Fe, New Mexico
Attn: Mr. Frank E. Irby

H & M Oil Company
Continental Life Building
Fort Worth, Texas

Kincaid & Watson Drilling Company
Box 498
Artesia, New Mexico

1964 SEP 21 AM 21

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

WFX-181

IN THE MATTER OF THE APPLICATION OF
NEIL E. SALSICH, JR., FOR CONVERSION
OF THE FEATHERSTONE NO. 2 AND 3 WELLS
TO WATER INJECTION PURSUANT TO RULE
701.

Sept 18

APPLICATION

COMES NEIL E. SALSICH, JR., by his attorneys,
Losee and Stewart, and in support of this Application,
state:

1. That Neil E. Salsich, Jr., is the operator
of the Featherstone Wells Nos. 2 and 3 located upon the
NW/4 ^D NW/4, and NW/4 ^B NE/4, respectively, of Section 1,
Township 17 South, Range 29 East, N.M.P.M., Eddy County,
New Mexico.

2. There is attached hereto and by reference
made a part hereof, a plat showing the location of the
proposed injection wells and the location of all other
wells within a radius of two miles from said proposed in-
jection wells and indicating the names of the operators
of the adjoining leases. That all of the wells on the
plat are producing or have produced from the Grayburg
formation and they are all located within the Square
Lake Field.

3. There is attached hereto and by reference
made a part hereof, a Gamma Ray Log on the Featherstone

No. 2 and 3 wells.

4. There is attached hereto and by reference made a part hereof, a diagrammatic sketch of the Featherstone No. 2 and 3 wells showing all casing strings, including diameters and setting depths, quantities used and tops of cement and perforations. The Applicant proposes to inject water purchased from Caprock Water Company, Artesia, New Mexico, through the casing into perforations opened in the Grayburg formation.

5. That on June 21, 1962, the Oil Conservation Commission of New Mexico in Case No. 2579 entered its Order R-2269 authorizing the conversion to water injection, of among other producing Grayburg wells, the Neil E. Salsich, Jr.-Leonard State No. 2 well located in the SE/4 SW/4 Section 36, Township 16 South, Range 29 East, N.M.P.M. The said Leonard State No. 2 well is located upon a proration unit diagonally offsetting the proration units upon which are located the said Neil E. Salsich, Jr. Featherstone No. 2 and 3 wells and as such, the Featherstone No. 2 and 3 wells are located within the project area authorized by the Commission in the above mentioned order.

6. That the Featherstone No. 2 well is directly offset by the Featherstone No. 1 well and the Miley No. 1 well. The Featherstone No. 3 well is directly offset by the Featherstone No. 1 well and the Leonard State No. 3 well. The Featherstone No. 1, Miley No. 1 and Leonard State

No. 3 wells have all experienced substantial responses to water injection and there is attached hereto and by reference made a part hereof, copies of Commission Form C-116, showing production tests of the directly offsetting wells before and after stimulation by waterflood.

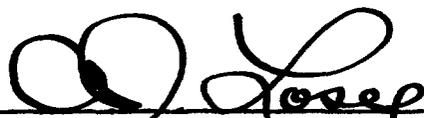
7. The Featherstone No. 2 and 3 wells are located on a continuation of the regular five spot water injection pattern which will result in a thorough and efficient sweep of oil by waterflood. The approval of this Application to convert the Featherstone No. 2 and 3 wells to water injection will prevent waste, protect correlative rights and promote conservation.

8. That a copy of this Application, complete with all attachments except the Gamma Ray Logs of the wells, has been sent to the State Engineer's Office, Capitol Building, Santa Fe, New Mexico, Attention Mr. Frank E. Irby. That copies of the Application have also been sent to each operator offsetting the proposed injection wells. The evidence of these mailings, in the form of Xerox copies of the receipts for certified mail, are hereto attached and by reference made a part hereof.

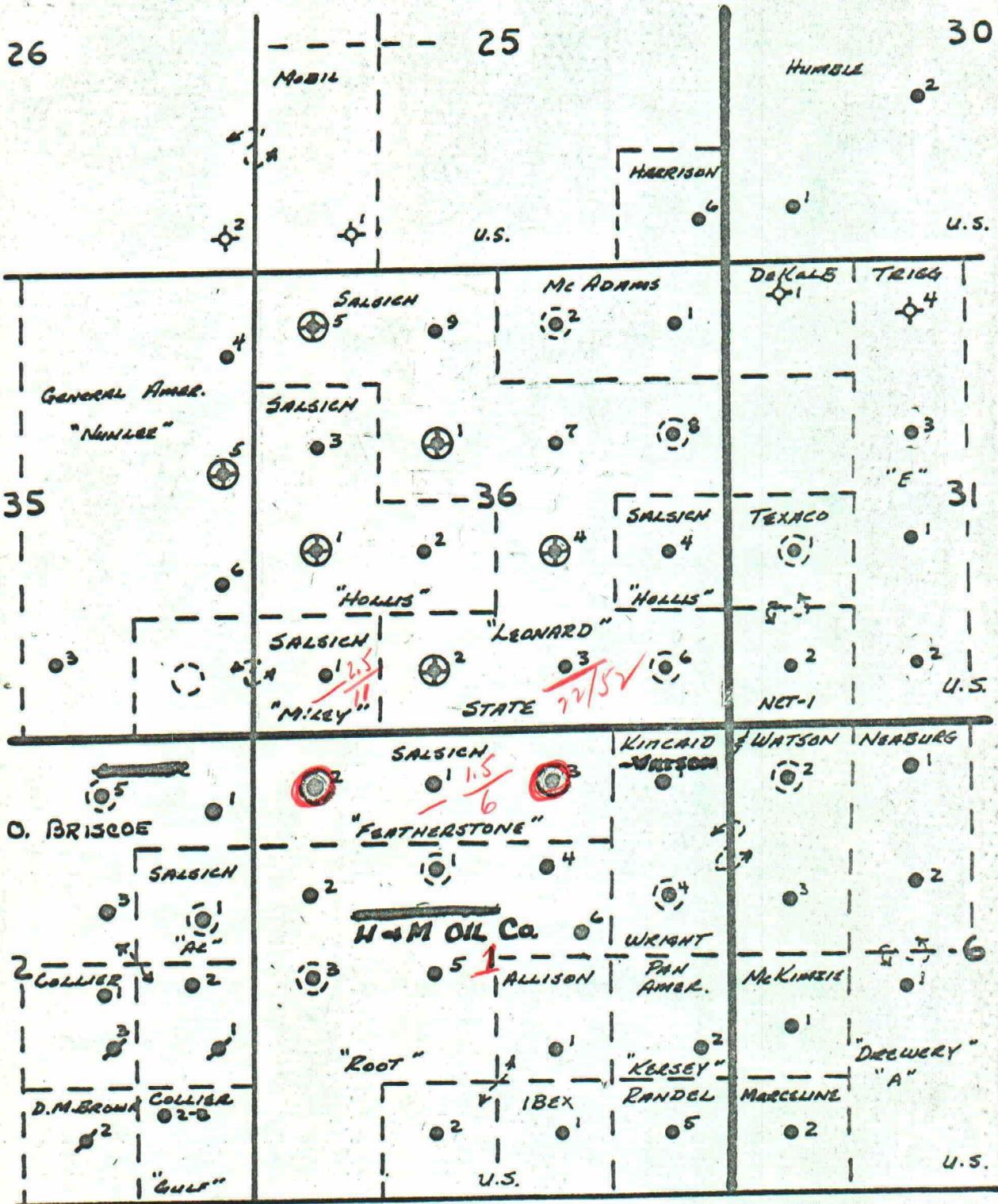
WHEREFORE, Applicant prays for administrative approval for the conversion of the Featherstone No. 2 well and the Featherstone No. 3 well to water injection.

LOSEE AND STEWART

By



A. J. Losee
P. O. Drawer 239
Artesia, New Mexico
Attorneys for Applicant.



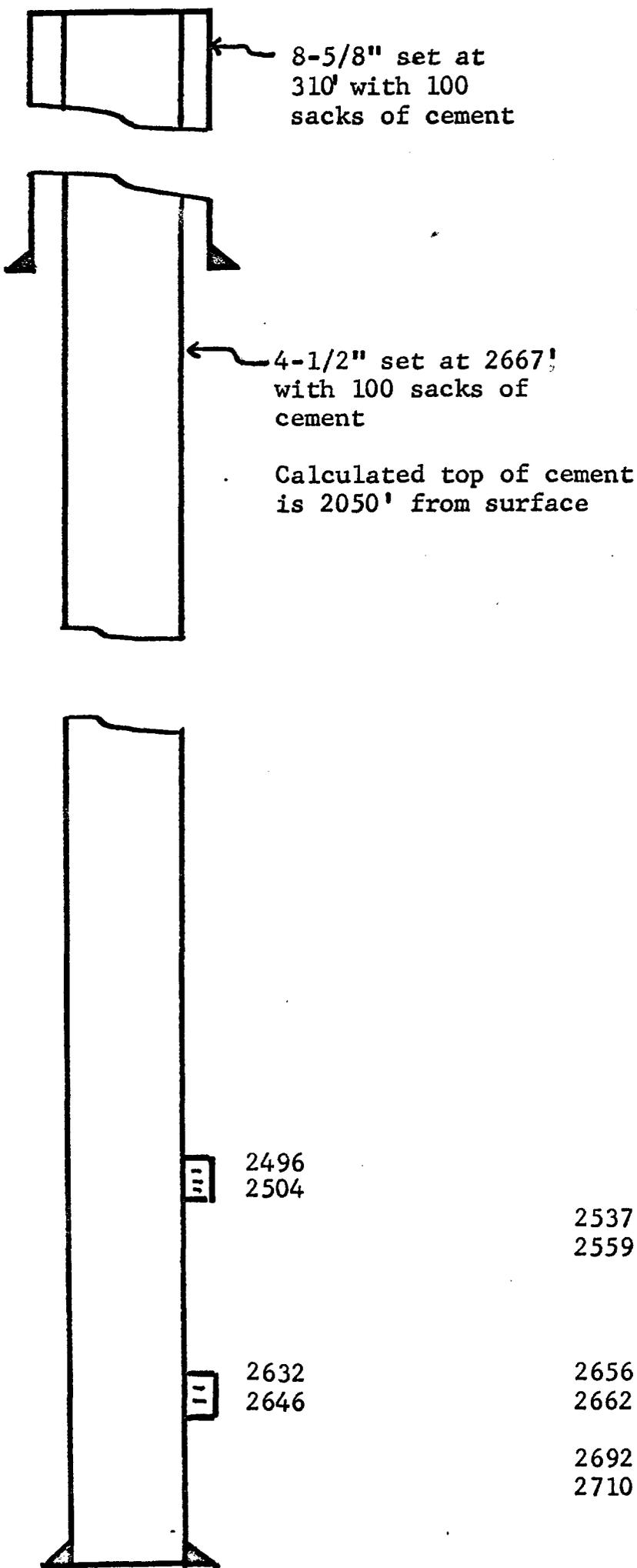
PROPOSED INJECTION PATTERN

SQUARE LAKE FIELD
EDDY COUNTY, NEW MEXICO

- LEGEND
- PRODUCING WELL.
 - ⊗ PRODUCING WELL TO BE CONVERTED TO INPUT WELL.
 - ⊙ FUTURE INPUT WELL

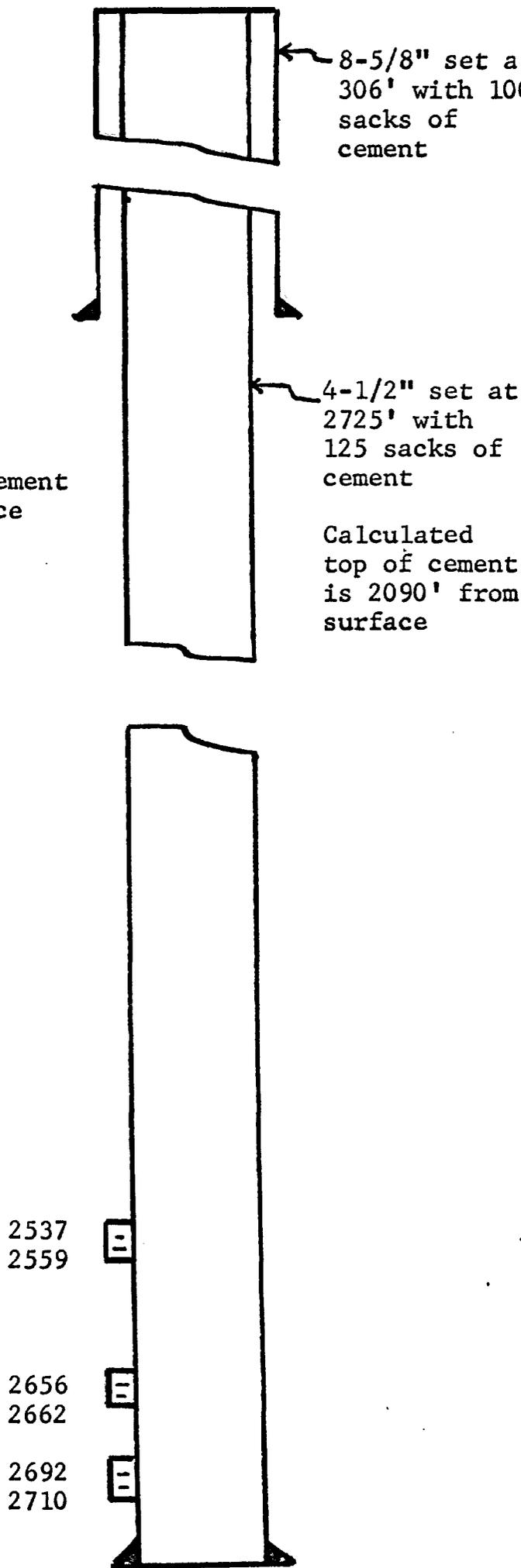
PROPOSED INJECTION WELLS

Featherstone No. 2



Total Depth 2672'

Featherstone No. 3



Total Depth 2725'

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Neil E. Salsich, Ltd. POOL SQUARE LAKE
 ADDRESS 411 N. Loraine, Midland, Texas MONTH OF December, 1963
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST (Check One)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Leonard-State	3	13	P	—	24	40	—	22	2	90

RECEIVED
 SEP 2 1964
 O. C. C.
 ARTESIA, OFFICE

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

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

Date August 19, 1964

By Neil E. Salsich Company _____
 Operator _____

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Neil E. Salsich, Ltd. POOL SQUARE LAKE
 ADDRESS 411 N. Lorraine, Midland, Texas MONTH OF June, 1964
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST X..... (Check One)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Leonard State	3	21	P	---	24	40	---	52	1.6	30

RECEIVED
 SEP 2 1964
 D. C. C.
 ARTEBIA, OFFICE

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

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Date August 19, 1964

By Neil E. Salsich Company
 Operator

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Neil E. Salsich Ltd. POOL SQUARE LAKE
 ADDRESS 411 N. Lorraine, Midland, Texas MONTH OF April, 1964
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST (Check One)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Miley State	1	17	P	—	24	3	—	2.5	4.7	1880

RECEIVED
 SEP 2 1964
 O. C. C.
 ARTESIA, OFFICE

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

Date August 19, 1964

By Neil E. Salsich Company
 Operator
 Title

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Neil E. Salsich, Ltd. POOL SQUARE LAKE
 ADDRESS 411 N. Lorraine, Midland, Texas MONTH OF June, 1964
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST..... (Check One)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Miley State	1	3	P	---	24	3	3	11	3.2	290

RECEIVED
 SEP 2 1964
 O. C. C.
 ARTESIA, OFFICE

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

Date August 19, 1964

By Neil E. Salsich Company
 Operator

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR..... Neil E. Salsich, Ltd. POOL..... SQUARE LAKE
 ADDRESS..... 411 N. Loraine, Midland, Texas MONTH OF..... June 19 64
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST..... X (Check One)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Featherstone Federal	1	3	P	—	24	4	—	1.5	5.4	360

RECEIVED
 SEP 2 1964
 O. C. C.
 ARTESIA OFFICE

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Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

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

Date..... August 19, 1964

By..... *Neil E. Salsich* Company
 Operator..... Title

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Neil E. Salsich, Ltd. POOL SQUARE LAKE
 ADDRESS 411 N. Loraine, Midland, Texas MONTH OF July, 19 64
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST (Check One)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Featherstone-Federal	1	21	P	---	24	4	---	6	3.8	63

RECEIVED
 SEP 2 1964
 O. C. C.
 ARTEBIA, OFFICE

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Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

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

Date August 19, 1964

By *Neil E. Salsich* Company
 Operator

No. 583575

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO Mr. Orlando Briscoe	POSTMARK OR DATE
STREET AND NO. Loco Hills	9/2/64
CITY AND STATE New Mexico	
<i>If you want a return receipt, check which</i> <input checked="" type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	
<i>If you want restricted delivery, check here</i> <input type="checkbox"/> 50¢ fee	
FEEs ADDITIONAL TO 20¢ FEE	
POD Form 3800 June 1962	CAUTION—NOT FOR INTERNATIONAL MAIL (See other side)

No. 583578

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO Kincaid & Watson Drlg. Co.	POSTMARK OR DATE
STREET AND NO. Box 498	9/2/64
CITY AND STATE Artesia, New Mexico	
<i>If you want a return receipt, check which</i> <input checked="" type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	
<i>If you want restricted delivery, check here</i> <input type="checkbox"/> 50¢ fee	
FEEs ADDITIONAL TO 20¢ FEE	
POD Form 3800 June 1962	CAUTION—NOT FOR INTERNATIONAL MAIL (See other side)

No. 583577

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO H & M Oil Company	POSTMARK OR DATE
STREET AND NO. Continental Life Building	9/2/64
CITY AND STATE Fort Worth, Texas	
<i>If you want a return receipt, check which</i> <input checked="" type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	
<i>If you want restricted delivery, check here</i> <input type="checkbox"/> 50¢ fee	
FEEs ADDITIONAL TO 20¢ FEE	
POD Form 3800 June 1962	CAUTION—NOT FOR INTERNATIONAL MAIL (See other side)

No. 583576

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO State Engineer	POSTMARK OR DATE
STREET AND NO. Capitol Building	9/2/64
CITY AND STATE Santa Fe, New Mexico, Attn:	
<i>If you want a return receipt, check which</i> <input checked="" type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	
<i>If you want restricted delivery, check here</i> <input type="checkbox"/> 50¢ fee	
FEEs ADDITIONAL TO 20¢ FEE	
POD Form 3800 June 1962	CAUTION—NOT FOR INTERNATIONAL MAIL (See other side)

Frank E. Irby



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

September 4, 1964

87501

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

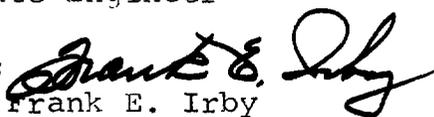
Reference is made to the application of Neil E. Salsich, Jr., which seeks to convert Featherstone wells No. 2 and No. 3 in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ and the NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 1, T. 17 S., R. 29 E., to water injection.

This office offers no objection to the granting of this application, provided the casing and cementing program, as well as the casing testing procedure for the injection wells shall conform to the standards testified to in the original hearing authorizing the Salsich Square Lake Waterflood Project in the Square Lake Pool, Eddy County, New Mexico.

Yours truly,

S. E. Reynolds
State Engineer

FEI/ma
cc-F. H. Hennighausen
Losee and Stewart

By: 
Frank E. Irby
Chief
Water Rights Div.