

CASE 4014: Application of RALPH  
LOWE FOR SALT WATER DISPOSAL,  
LEA COUNTY, NEW MEXICO.

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Case Number

4014

Application  
Transcripts.

Small Exhibits

ETC.

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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

December 27, 1968

EXAMINER HEARING

-----  
IN THE MATTER OF: )

Application of Ralph Lowe )  
for salt water disposal, )  
Lea County, New Mexico. )

Case No. 4014

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

TRANSCRIPT OF HEARING

MR. NUTTER: Case 4014.

MR. HATCH: Case 4014, application of Ralph Lowe for salt water disposal, Lea County, New Mexico.

MR. McDERMOTT: W. H. McDermott, appearing for the applicant, Ralph Lowe, and I have one witness, Everett Smith.

(Whereupon, Applicant's Exhibits A, B, and C, were marked for identification.)

EVERETT L. SMITH

called as a witness by the Applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. McDERMOTT:

Q Will you state your name?

A Everett Smith.

Q Mr. Smith, by whom are you employed?

A Ralph Lowe.

Q And in what capacity are you employed?

A As a consulting engineer.

Q Have you ever testified before the Oil Commission?

A Yes.

Q Have your qualifications been presented?

A Yes.

MR. McDERMOTT: Are his qualifications acceptable by

the Commission?

MR. NUTTER: Yes, they are.

Q Are you acquainted with the application here in Case No. 4014, before the Commission?

A Yes, it is to deepen the C Devonian Unit Well No. 1 to approximately 12,455 feet.

Q What is the present status of this well?

A It is temporarily abandoned.

Q I show you what has been marked as Exhibit A, and would you identify it for the Commission?

A This is a plat showing all the wells producing within a two-mile radius of this proposed injection well.

Q What is the producing zone in this area?

A Devonian.

Q Have all these wells in this area produced from this zone?

A Yes, all except one well.

Q How many wells do you contemplate disposing of water from?

A There will be two wells.

Q How much water do you estimate there will be disposed of from these particular wells?

A 400 to 450 barrels per day.

Q Is this water to be reinjected into the Lower Devonian?

A Into the Lower Devonian, right.

Q Do you have a log on this proposed injection well?

A Yes, down to the present total depth of 12,355 feet.

Q I show you what has been marked as Exhibit B, and would you identify this, please?

A Well, it is a log of this C Devonian Unit Well No. 1, down to the present total depth of 12,355 feet.

Q Would you give the Commission the history on this well?

A It was completed on March 26, 1964, at a total depth of 12,341 feet; top of the pay was 12,272. Base of the pay was 12,310 feet. The well was temporarily abandoned, on April 15, 1967, and production had gone below the commercial rates.

Q Referring to what has been marked as Exhibit C, would you identify this for the Commission?

A This is a proposed diagrammatic sketch of the salt water completion, Ralph Lowe, C Devonian Unit Well No. 1, located in Section 16, 10 South, 36 East, Lea County, New Mexico.

Q Would you explain this diagrammatic sketch to the Commission?

Q Is this water to be reinjected into the Lower Devonian?

A Into the Lower Devonian, right.

Q Do you have a log on this proposed injection well?

A Yes, down to the present total depth of 12,355 feet.

Q I show you what has been marked as Exhibit B, and would you identify this, please?

A Well, it is a log of this C Devonian Unit Well No. 1, down to the present total depth of 12,355 feet.

Q Would you give the Commission the history on this well?

A It was completed on March 26, 1964, at a total depth of 12,341 feet; top of the pay was 12,272. Base of the pay was 12,310 feet. The well was temporarily abandoned, on April 15, 1967, and production had gone below the commercial rates.

Q Referring to what has been marked as Exhibit C, would you identify this for the Commission?

A This is a proposed diagrammatic sketch of the salt water completion, Ralph Lowe, C Devonian Unit Well No. 1, located in Section 16, 10 South, 36 East, Lea County, New Mexico.

Q Would you explain this diagrammatic sketch to the Commission?

A Yes, it has thirteen and three-eighths-inch surface casing set at 341 feet, cemented with 340 sacks of cement. Cement circulated to the surface. Eight and five-eighths intermediate string set at 4,193, and cemented with 1,500 sacks of cement. Cement circulated to the surface. Five and a half-inch set at 12,335, cemented with 100 sacks.

We plan to set a four-inch liner or hang a four-inch liner at 12,174 feet, deepen the Devonian pay into the porous section into the Devonian, set a four-inch liner then will be run to total depth, and cemented from top to bottom, and then perforated opposite the porous zone in the Devonian.

Q What size of pipe is going to be used for the injection process?

A Two and three-eighths -- two and a half-inch tubing.

Q Does this have a tight cement job from top to bottom?

A Yes.

Q Will there be a fluid of some type in the annulus?

A Yes, it will be non-corrosive fluid.

Q And the formation that you plan to inject into?

A Will be the Lower Devonian.

Q Will this Lower Devonian zone adequately handle the amount of produced water from these wells?

A Yes, sir.



Q Will there be any waste as a result of this operation?

A No.

Q Will the correlative rights of any of the surrounding wells be affected?

A No, because all the wells in this area produce above, from the Devonian up. The Huber Corporation has a well that produces from the San Andres that has been plugged back to the San Andres, and this water will be injected into the Lower Devonian Formation below the oil-water contact. Oil-water contact in this field is at 12,310 feet.

Q Is this water potable water?

A No, it is not potable.

Q Is there any corrosive effect in the water at all?

A No.

Q If this application were not granted, what would be the result?

A The water would have to be hauled at a considerable expense. 400 to 450 barrels a day runs into a good bit of money.

Q Were all these exhibits prepared by you or under your direction?

A Yes.

MR. McDERMOTT: At this time, I would like to move for

the admission of Exhibits A, B, and C.

MR. NUTTER: Ralph Lowe's Exhibits A, B, and C will be admitted in evidence.

(Whereupon, Applicant's Exhibits A, B, and C were admitted in evidence.)

MR. McDERMOTT: At this time, this completes our direct examination of this witness.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Smith, what type of tubing do you propose to run here in this well?

A Two and a half-inch regular tubing.

Q No plastic coating?

A No, they weren't planning to use plastic-coated tubing.

Q Will the water be treated to prevent corrosion?

A No, sir, not at this time. If it is necessary, it will be.

Q A coupon test can be run to determine if there is a rate of corrosion going on, is that correct?

A Yes, sir.

Q The Commission order will specify the coupon test be run.

Now, you mentioned that the water to be disposed of

would be coming from two wells. Which will be those two wells?

A Those are the two Ralph Lowe wells in that field. I believe he has, it is a TP State.

MR. McDERMOTT: What Section are those in?

THE WITNESS: Section 15. And then he's got, what is the name of that other one, TP State? And then he's got a Devonian A, I believe. I don't have the other well lease name.

Q Would that be the disposal well here on your Exhibit A, would be the well in the southwest of the southeast of Section 16, is that right?

A Right yes,

Q That is the disposal well?

A Yes.

Q And east of those two locations, you have the TP State 1-F?

A That other one is the one south, that is a State lease.

Q And the other one would be the Devonian State 1-A, directly south?

A Right.

Q Those two wells do make water?

A Yes.

Q I see that the TP State has a Devonian open-hole interval. I presume that is what that means, Devonian OH,

interval from 12,258 to 12,274, and that the Crossroads Devonian State has a Devonian open-hole from 12,290 to 12,305. Yet you mentioned that the oil-water contact here is 12,310?

A That was the geologist that gave me that figure, 12,310, the oil-water contact on this thing.

Q Did this disposal well produce oil?

A Yes, for a while it did.

Q When was this drilled?

A 1964.

Q March, 1964, it was logged?

A Yes, total depth 12,341.

Q When was it abandoned?

A April 15, 1967.

Q How much oil did this well make, do you know?

A No, sir, I don't have the figures. It just went down.

Q Do you know what the production was when it was abandoned?

A It was down to approximately nothing, as far as oil is concerned.

Q Was it making a lot of water?

A It was making some water, yes. I don't have the volume of water it was making.

Q Will a gauge be installed at the surface here on the annulus?

A Yes, sir.

Q When you run that liner, you will set it at 12,174, and the five and a half is at 12,335, so you will have approximately 161 feet of overlap there in the liner and the five and a half?

A Yes, sir, right.

Q Do you know what the top of the cement is on the five and a half?

A No, sir, they didn't run a temperature survey on that, and they didn't have the top of the cement.

Q You have not calculated the top of the cement?

A No, sir, I did not.

Q Do you know what size hole was drilled there?

A It was drilled out of eight and five-eighths. It would probably be about an eight and a half, or somewhere around eight or eight and a half.

Q And five and a half-inch pipe?

A Yes.

MR. NUTTER: Does anyone else have a question of the witness?

MR. LONG: I would like to ask if you anticipate any

effect from the injection of additional waters into the proposed salt water disposal well, any effects on TPA State 1-A, or the Ralph Lowe 1-A? Do you expect any reaction there?

THE WITNESS: That is going to be way down in a lower zone, lower floor zone. I don't feel it will have much effect on either one of them. It could possibly increase the pressure down there.

MR. LONG: If it did increase the production on either one of those wells, we would presume that due to the water drive, that it was forcing that oil from lands in 16 to lands in 15, and in 21, wouldn't it?

THE WITNESS: If it did do that, it probably would, yes.

MR. LONG: Thank you.

THE WITNESS: See, they drilled one well down there to that TP State No. 1 in Section 15 up there, they drilled that to a total depth of 13,700 feet. And you have a long string of Devonian there, and they are going way down into the Devonian where the Section is porous, where they can put this water in, if they like, in a vacuum.

BY MR. NUTTER:

Q Which well was that you were talking about?

A TP State No. 1, the one that I believe it is Section 15.

Q The producing well?

A Yes.

Q It was drilled to what total depth?

A 13,700 feet.

Q Did that go below the base of the Devonian?

A Yes, it went to the top of the Simpson on that. That is the reason they know they have a long section of Devonian where they can drill this well down and put the water down below.

Q The top of the Simpson at 13,100?

A Yes, sir.

Q And you are going to deepen this well to 12,455, so you will be down into the lower section of the Devonian without going through the Devonian?

A Right.

MR. NUTTER: Any further questions of the witness? You may be excused. Do you have anything further, Mr. McDermott?

MR. McDERMOTT: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 4014? We will take the case under advisement, and call Case 3991.

Q The producing well?

A Yes.

Q It was drilled to what total depth?

A 13,700 feet.

Q Did that go below the base of the Devonian?

A Yes, it went to the top of the Simpson on that. That is the reason they know they have a long section of Devonian where they can drill this well down and put the water down below.

Q The top of the Simpson at 13,100?

A Yes, sir.

Q And you are going to deepen this well to 12,455, so you will be down into the lower section of the Devonian without going through the Devonian?

A Right.

MR. NUTTER: Any further questions of the witness? You may be excused. Do you have anything further, Mr. McDermott?

MR. McDERMOTT: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 4014? We will take the case under advisement, and call Case 1.



I N D E X

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<u>EXHIBITS</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
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STATE OF NEW MEXICO     )  
                                   )     ss.  
 COUNTY OF BERNALILLO    )

I, SAMUEL MORTELETTE, Court Reporter 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, and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

*Samuel Mortelette*  
 COURT REPORTER

I do hereby certify that the foregoing is a correct record of the proceedings in the hearing of Case No. 4014, heard by me on 12/27, 1968.

*Kurt*, President  
 New Mexico Oil Conservation Commission

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

State of New Mexico  
Oil Conservation Commission



LAND COMMISSIONER  
GUYTON B. HAYS  
MEMBER

P. O. BOX 2088  
SANTA FE

STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

December 31, 1968

Mr. W. H. McDermott  
Attorney at Law  
Lincoln Building  
Post Office Box 1143  
Santa Fe, New Mexico

Re: Case No. 4014  
Order No. R-3651  
Applicant:  
Ralph Lowe

Dear Sir:

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

Very truly yours,

*A. L. Porter, Jr.*  
A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC X

Artesia OCC       

Aztec OCC       

Other State Engineer Office

9th floor  
Midland, Tower

Office of Jim Morris

Administration of Estate  
Ralph Dowe

Administrator Ralph Hume

# Memo

915 <sup>Estate</sup> 684-7441  
From

To

Mr. Jim Morris

P.O. Box 832

Midland, Texas

79701

pay \$4.00 - agent receipt.

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. 4014  
Order No. R-3651

APPLICATION OF RALPH LOWE  
FOR SALT WATER DISPOSAL, LEA  
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on December 27, 1968, at Santa Fe, New Mexico, before Examiner Daniel S. Mutter.

NOW, on this 31st day of December, 1968, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, 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, Ralph Lowe, is the owner and operator of the "C" Devonian Unit Well No. 1, located in Unit 0 of Section 16, Township 10 South, Range 36 East, NMPM, South Crossroads-Devonian Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the Lower Devonian formation, with injection into the perforated interval from approximately 12,350 feet to 12,455 feet.

(4) That the injection should be accomplished through 2 1/2-inch tubing installed in a packer set at approximately 12,170 feet; that the casing-tubing annulus should be filled with an inert fluid; that a pressure gauge should be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer; that coupon tests should be conducted continuously on said well and the results thereof filed quarterly with the Commission until further notice from the Secretary-Director of the Commission.

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CASE No. 4014  
Order No. R-3651

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Ralph Lowe, is hereby authorized to utilize his "C" Devonian Unit Well No. 1, located in Unit O of Section 16, Township 10 South, Range 36 East, NMPM, South Crossroads-Devonian Pool, Lea County, New Mexico, to dispose of produced salt water into the Lower Devonian formation, injection to be accomplished through 2 1/2-inch tubing installed in a packer set at approximately 12,170 feet, with injection into the perforated interval from approximately 12,350 feet to 12,455 feet;

PROVIDED HOWEVER, that the casing-tubing annulus shall be filled with an inert fluid; that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer; and that coupon tests shall be conducted continuously on said well and the results thereof filed quarterly with the Commission until further notice from the Secretary-Director of the Commission.

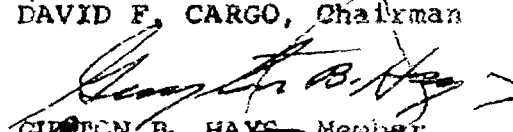
(2) That the applicant shall submit monthly reports of his disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

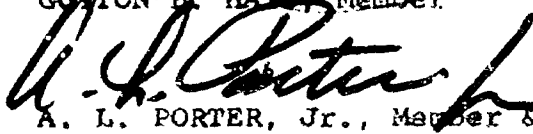
(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
DAVID F. CARGO, Chairman

  
GUSTON B. HAYS, Member

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



Docket: EXAMINER HEARING - FRIDAY - DECEMBER 27, 1968

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or  
Elvis A. Utz, Alternate Examiner:

- CASE 4005: Application of Petroleum Corporation 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 Pennsylvanian formation in the perforated interval from 9789 to 9946 feet in its State MTB Well No. 1 located in Unit D of Section 31, Township 12 South, Range 34 East, East Hightower-Upper Pennsylvanian Pool, Lea County, New Mexico.
- CASE 4006: Application of Petroleum Corporation of Texas for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the San Andres formation through its Patent Federal Well No. 2 located in Unit N of Section 6, Township 18 South, Range 29 East, Red Lake Pool, Eddy County, New Mexico.
- CASE 4007: Application of Paul DeLeve for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete his Bagley State Well No. 1 located in the NW/4 NW/4 of Section 34, Township 11 South, Range 31 East, Lea County, New Mexico, in such a manner as to produce oil from the Bagley-Pennsylvanian Pool and to dispose of produced salt water down the annulus between the production casing and the intermediate casing into the San Andres, G.arena, and possibly other formations in the interval from approximately 9799 feet to 9958 feet.
- CASE 4008: Application of Paul DeLeve for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete his Shell State Well No. 1 located in the NW/4 NE/4 of Section 19, Township 11 South, Range 34 East, Lea County, New Mexico, in such a manner as to produce oil from the Inok-Pennsylvanian Pool and to dispose of produced salt water down the annulus between the production casing and the intermediate casing into the San Andres, G.arena, and possibly other formations in the interval from approximately 9794 feet to 9940 feet.



- CASE 4009: Application of Humble Oil & Refining Company for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from approximately 4273 feet to 4329 feet in its New Mexico "BX" State Well No. 3 located in Unit G of Section 16, Township 8 South, Range 33 East, Chaverco-San Andres Pool, Chaves County, New Mexico.
- CASE 4010: Application of John H. Trigg for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formations through his Empire "J" Federal Well No. 1 located in Unit P of Section 1, Township 18 South, Range 26 East, Red Lake Grayburg-San Andres Pool, Eddy County, New Mexico.
- CASE 4011: Application of Sam D. Ares for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formation in the open-hole interval from approximately 3520 feet to 3639 feet in his Charles Whitten Well No. 5 located in Unit B of Section 4, Township 24 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.
- CASE 4012: Application of Sam D. Ares for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3602 to authorize the disposal of produced salt water into the Yates-Seven Rivers formations in the open-hole interval from approximately 3363 feet to 3650 feet in his Everett Well No. 4, located in Unit M. Section 35, Township 24 South, Range 36 East, Jalmat Pool, Lea County, New Mexico. The subject disposal well would be in lieu of the Everett Well No. 2, previously authorized for disposal by Order No. R-3602.
- CASE 4013: Application of Redfern Development Corporation and Wil-Mo Oil Corporation for salt water disposal, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the San Andres formation in the interval from approximately 4200 feet to 4300 feet in the Wil-Mo State Well No. 1-K, located in Unit G of Section 11, Township 10 South, Range 32 East, Mescalero-San Andres Pool, Lea County, New Mexico.

12355 5 1/2 12335 perf 12274  
12286

Everett Smith Box 953  
Midland

Salt water disposal

Ralph Lowe

C Devonian Unit Well No 1

O-16-10S-26-E  
J. Crosson & Lea Co.

deepen to approx 12,455'  
12,124

perfs below 12350  
lower 2 ft.

CASE 4014: Application of Ralph Lowe for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Lower Devonian formation in the perforated interval from approximately 12,350 feet to 12,455 feet in his "C" Devonian Unit Well No. 1 located in Unit O of Section 16, Township 10 South, Range 36 East, South Crossroads-Devonian Pool, Lea County, New Mexico.

CASE 3991: (Continued and Readvertised)

Application of Roger C. Hanks, Ltd., for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the lower Devonian formation in the open-hole interval from approximately 10,804 feet to 10,885 feet in its Monterey State Well No. 1 located in Unit A of Section 11, Township 10 South, Range 32 East, Mescalero Field, Lea County, New Mexico.

CASE 4015: Application of Wilson Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formations, Wilson Yates-Seven Rivers Pool, Lea County, New Mexico, through the following six wells:

TOWNSHIP 21 SOUTH, RANGE 34 EAST

Wilson State Well No. 9 located in Unit F of Section 13;

Shell State Well No. 13 located in Unit H of Section 13;

Wilson State Well No. 8 located in Unit O of Section 13;

Wilson State Well No. 20 located in Unit B of Section 23;

Wilson State Well No. 21 located in Unit J of Section 23;

TOWNSHIP 21 SOUTH, RANGE 35 EAST

Wilson State Well No. 1-A located in Unit G of Section 7;

Applicant further seeks an administrative procedure whereby other wells in said pool may be approved for disposal purposes without the requirement of notice and hearing.

Exhibit "C"

PROPOSED DIAGNOSTIC SKETCH  
SALT WATER DISPOSAL COMPLETION

RALPH LONE

C Devonian Unit Well #1

16-10S-36E

Crossroad Devonian South Field  
Lea County, New Mexico

Ground Elevation 4020'

2 1/2" tubing set at  
12175' with packer set  
at 12170'

TIW Packer

13 3/8" @ 341' cement  
340 sx cement circulated

8 5/8" set at 4195' &  
cemented with 1500 sx  
cement circulated

5 1/2" set at 12335'  
cemented with 100 sx

4" liner hung at 12174'  
bottomed at TD & cemented  
from bottom to top

TD estimated Appx. 12455'

BEFORE EXAMINED NUTTER  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. C  
CASE NO. 4014

RAILROAD COMMISSION REPORTS PREPARED  
PROPERTY MANAGEMENT  
LEASE APPRAISALS  
EVALUATIONS

WEST TEXAS OIL REPORTS  
AND ENGINEERING SERVICE

TELEPHONE MU 4-6381 - P. O. BOX 953  
401 WILKINSON-FOSTER BUILDING

MIDLAND, TEXAS

December 11, 1968

DEC 12 PM 1 11  
1968

COMPLETE ENGINEERING SERVICE  
BOTTOM HOLE PRESSURES  
GAS-OIL RATIOS  
WELL COMPLETIONS

EVERETT L. SMITH  
REGISTERED PROFESSIONAL ENGINEER

LAMAR ESCHBERGER  
REGISTERED PROFESSIONAL ENGINEER

State of New Mexico  
Oil Conservation Commission  
P. O. Box 1148  
Santa Fe, New Mexico 87501

*Case 4014*

Gentlemen:

In accordance with Rule 1203, application is hereby made on behalf of Ralph Lowe for a hearing before the Oil Conservation Commission for the purpose of presenting evidence to obtain Commission approval to dispose of produced oil field brine by injection into the Lower Devonian formation.

Said injection is to be made into Ralph Lowe's C Devonian Unit, Well #1, located 660' FSL and 1980' FEL Section 16-10S-36E, Lea County, New Mexico. Injection is to be through 2 1/2" tubing below 12350'. This well drilled to total depth of 12355' and has 5 1/2" casing set at 12335' with perforations from 12274' to 12286'. The operator plans to deepen this well to approximately 12455', hang a 4" liner at 12174' and inject water through perforations below 12350'.

The water to be disposed of will be produced from the Crossroads Devonian, South Field from the following leases:

Ralph Lowe C Devonian Unit Well #2B located in Sec 21-10S-36E  
Ralph Lowe T-P State A Well #1M located in Sec 15-10S-36E

Interested parties who have this day been furnished a copy of this application are:

J. M. Huber Corp., Wilco Bldg., Midland, Texas 79701  
Midland Production Corp., 808 Americana Bldg., Houston, Texas 77002  
Texas Pacific Oil Co., 511 W. Ohio, Midland, Texas 79701

Yours truly,



Everett L. Smith,  
Petroleum Engineer

ELS:ar

CC: Ralph Lowe

DRAFT

GMH/esr

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. 4014

Order No. R- 3657

APPLICATION OF RALPH LOWE  
FOR SALT WATER DISPOSAL, LEA  
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on December 27, 1968,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this        day of December, 1968, the Commission, a  
quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, 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, Ralph Lowe,  
is the owner and operator of the "C" Devonian Unit Well No. 1,  
located in Unit 0 of Section 16, Township 10 South, Range  
36 East, NMPM, South Crossroads-Devonian Pool, Lea  
County, New Mexico.

(3) That the applicant proposes to utilize said well to  
dispose of produced salt water into the Lower Devonian  
formation, with injection into the perforated interval  
from approximately 12,350 feet to 12,455 feet.

(4) That the injection should be accomplished through  
2 1/2 -inch ~~plastic-lined~~ tubing installed in a packer set at

approximately 12170 feet; that the casing-tubing annulus should be filled with an inert fluid; ~~and~~ that a pressure gauge should be attached to the annulus ~~or the annulus left open~~ at the surface in order to determine leakage in the casing, tubing, or packer;

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Ralph Lowe,  
is hereby authorized to utilize <sup>his</sup> ~~it's~~ "C" Devonian Unit Well No. 1  
located in Unit 0 of Section 16, Township 10 South, Range  
36 East, NMPM, South Crossroads-Devonian Pool, Lea  
County, New Mexico, to dispose of produced salt water into the  
Lower Devonian formation, injection to be accomplished through  
2 1/2-inch tubing installed in a packer set at approximately  
12170 feet, with injection into the perforated interval  
from approximately 12,350 feet to 12,455 feet;

PROVIDED HOWEVER, ~~that the tubing shall be plastic-lined;~~  
that the casing-tubing annulus shall be filled with an inert  
fluid; ~~and~~ that a pressure gauge shall be attached to the annulus  
~~or the annulus left open~~ at the surface in order to determine  
leakage in the casing, tubing, or packer;

(2) That the applicant shall submit monthly reports of ~~his~~ his  
disposal operations in accordance with Rules 704 and 1120 of the  
Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the  
entry of such further orders as the Commission may deem necessary.

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

*That coupon tests should be conducted continuously on  
said well and the results thereof filed quarterly with the  
Commission until further notice from the Secretary, Director  
of the Commission.*

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and the results thereof filed quarterly with the Commission  
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