

CASE 4025: Application of RALPH
LOWE FOR AN EXCEPTION TO ORDER
R-3221, AS AMENDED, EDDY COUNTY.

- dse Number

4025

Application
Transcripts.

Small Exhibits

ETC.



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

January 15, 1969

REGULAR HEARING

IN THE MATTER OF:)

Application of Ralph Lowe)
for an exception to Order)
No. R-3221, as amended,)
Eddy County, New Mexico.)

Case No. 4025

BEFORE: A. L. Porter, Jr., Secretary-Director
Alex J. Armijo, Land Commissioner
Governor David F. Cargo, Chairman
George Hatch, Counsel

TRANSCRIPT OF HEARING

MR. HATCH: Case 4025, Application of Ralph Lowe for an exception to Order No. R-3221, as amended, Eddy County, New Mexico.

MR. McDERMOTT: I am W. H. McDermott, appearing for Ralph Lowe in Case 4025. I have one witness I would like to have sworn in.

(Witness sworn.)

(Whereupon, Applicant's Exhibits Numbers 1, 2, 3, 4, 5, 6, inclusive, 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, please?

A Everett L. Smith.

Q What is your occupation?

A Petroleum Engineer.

Q By whom are you employed?

A Ralph Lowe.

Q Are you acquainted with the Case No. 4025 before the Commission?

A I am.

Q Have you ever testified before the Commission previously?

A Yes.

MR. McDERMOTT: Are his qualifications acceptable?

MR. PORTER: Yes.

Q Have you submitted an exhibit pertaining to the area involved in this application?

A Yes, sir.

Q Now, at the present time, are there two pits being used for disposal of salt water?

A That's right, on the Poker Lake State lease, and on the R. B. Federal lease.

Q What are the size of these particular pits?

A Those pits are approximately forty by thirty by four.

Q Will you describe where they are located?

A They are located inside the tank battery fence, right at the tank batteries. The Poker Lake State pit is approximately 1,320 feet from the south, and 660 feet from the west line of Section 8. And the pit on the R. B. Federal lease is located at approximately 660 feet north of the intersection between Section 17 and Section 18.

Q Are there any water wells located within this area?

A Yes, sir.

Q Where are they located?

A There is one in Section 9, which is to the east, and one in Section 7, which is to the west.

Q Have you had the opportunity to take water samples from the oil wells in the area?

A Yes, I have had samples of the water taken and analyzed.

Q Are they submitted in Exhibits 4, 5, and 6?

A Right.

Q Will you discuss Exhibit Number 3?

A Exhibit Number 3 is a water analysis of the water in Section 7, which is to the west of these Ralph Lowe leases. One thing I especially want to point out there, that the chloride is only 208, and sulphate is 380.

Q Would you discuss the water analysis as shown by Exhibit 5?

A Exhibit 5 is the analysis of the water from the R. B. Federal No. 1, Section 18. It has chloride content of 97,200, sulphate content of 570.

Q Would you proceed on to Exhibit Number 6 on the water analysis on that well?

A Number 6 is the R. B. Federal A No. 1, Section 17. It has a chloride content of 96,800, with a sulphate content of

460.

Q Did you have the opportunity to have water samples taken from the water wells in Sections 7 and 9?

A Yes. I gave the analysis of the water well in Section 7. The water well in Section 9 has a chloride content of 272, and a sulphate content of 2,120.

I would like to point out right here at this point that the sulphate content in the salt water produced from the oil wells is much lower than the sulphate content in these water wells.

Q In your analysis of these results, do you feel as though you have any seepage from your water tanks, that they are having any effect whatsoever on the water being produced out of the oil well?

A No. The water in Section--well, in Section 9, results were taken from the Bulletin 3 of this New Mexico Mining and Technology Ground Water Report of Eddy County. In, I believe, 1949, the sulphate content in that well was 1,710, with a chloride rather low, about 22. But the sulphate has gone from 1,710 to 2,120, which is kind of typical of a lot of wells in that area, the older they get, it seems like the water gets more mineralized, more contaminated the longer they are produced.

And these two wells, water wells show no evidence of any increase in chloride, to any appreciable amount at all. If the water was seeping through from the oil water, water from the surface pits, it would appear that the chlorides would be much higher than they are.

MR. PORTER: Are you saying that they show no appreciable increase over what period of time?

THE WITNESS: Now, the pit on the Poker Lake State lease has been in use about five years, and on the R. B. Federal, they have been putting water in there about eight years. The wells were all completed in 1960.

Q Referring to the study made that you referred to, what is the date in there that the results were shown, in that particular report?

A On Section 9?

Q Yes.

A That was 1949.

Q Do you have any comparable date or something closer, say like 1964 or 1965?

A No, the only date we had was that one out of this report in our analysis of the water from this water well.

Q What is the date out of the report?

A According to this ground water report, it was 5-1-49

when the sample was taken out of this water well in Section 9.

Q At what depth do you obtain the water in this area?

A That is approximately 300 feet.

Q Is this water potable at that depth?

A No, it is not.

Q Do you have any analysis or any report as to the parts per million of chlorides, or dissolved minerals?

A The well in Section 9 has a dissolved solids of 3,706. The well in Section 7 has a dissolved solids of 1,252.

Q Under the standards set by the USGS, is this considered as potable water?

A It is not. Potable water is described by the USGS as less than 500 parts per million.

Q Do you think that there will be any contamination at all from the surface pits to the water at the first water level?

A No, I do not.

Q Do you have any idea whether or not this water from these surface pits could possibly reach this first water level?

A No, I don't--there is a lot of surface Redbeds and Blue shale that some cable tool holes have been drilled in this area, and I don't believe there is a chance of the water ever seeping down.

Q Were all these exhibits made under your supervision or

by you?

A I had the water samples taken by a Federal man, and the water analysis was run by the Western Company.

Q To your best knowledge, do you know of any potable water within the immediate area of these surface pits?

A Not potable water. Some of this water can be used for stock water. In fact, I think they are using it for stock water now.

Q Is it your basic conclusion that there will be no contamination at all?

A That's right. And the evidence as to the water analysis of 1949 and to date show no contamination whatever.

MR. McDERMOTT: I have no further questions of this witness.

MR. PORTER: Does anyone else have any questions?

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Smith, I would like to qualify the location of those pits. You have them identified on your Exhibit Number 1.

A On Exhibit 1, you notice down in the lower right hand corner, the tank battery symbol, those pits are in the south end of the tank battery location. Their tank battery is a standard location on all tank batteries. I can give you a blueprint of

their tank battery standard locations, if you would like to have it.

MR. PORTER: Would you describe it by quarter quarter section, please?

THE WITNESS: Well, I had it here a minute ago. The pit on the State lease, Poker Lake State lease is approximately 1,320 from the south line, and 660 from the west line of Section 8.

MR. PORTER: That is the Poker Lake?

THE WITNESS: Yes, that is the Poker Lake State.

Now, the one on the R. B. Federal, both of those leases go into the same tank battery. It is located north of the--I mean about 660 feet south of the intersection of Sections 7, 8, 17, and 18.

Q (By Mr. Nutter) In other words, that is almost on the line?

A Yes, sir.

Q And about 660 feet south of the north side of the section?

A Right.

Q Is that the only two tank batteries we are talking about, or do you have a third one?

A No, sir, that is the only two. This R. B. Federal

and Poker Lake State go into the same tank battery.

Q And then the incomplete circles, the dotted line circles are the location of the water wells?

A Yes, sir.

Q Structurally, do you recall the location of the water wells with reference to the pits?

A Well, the surface dip there is about one and a half degrees to the west. Now, the subsurface formations generally dip to the southeast.

Q Subsurface, the dip is to the southeast, but surface-wise the dip is to the west toward the river?

A Yes, sir.

Q So could be assume then that the pits that you are talking about would be down dip surfacewise from the water well in Section 9?

A Surfacewise, yes, sir, it would be down dip.

Q And that would probably be about on strike with the water well up there in Section 7?

A Yes, sir.

Q How deep is the well in Section 7?

A I don't have the exact depth. It is around 300 feet, approximately.

Q And the well in Section 9?

A It should be approximately the same depth.

MR. PORTER: Would that put it in the Redbeds?

THE WITNESS: Well, the way those sands are in Eddy County, you can't always tell exactly until you hit the water. There is an example over in Section 14, 19 South, 27 East, two water wells drilled twenty feet apart, and according to this water report 3, one of them was hard and the other one was soft, and there was about a 50 foot differential in the water levels. So those are just entrapped sands, and you will find one here, and maybe yonder you won't find one.

Q (By Mr. Nutter) How much water is being produced at the present time, Mr. Smith?

A In the Poker Lake State lease, it is approximately 35 barrels a day. And the R. B. Federal No. 1-A, is about 6 barrels a day. And the R. B. "AY" Federal No. 1, it is approximately 125 barrels a day.

Q So we have here maybe 160 to 170 barrels a day?

A Yes, sir.

Q Are there any dry holes in the immediate vicinity of this pool which could be used for disposal of water?

A Well, there are a few holes up there. There is one up in--I believe that is Section 4, but I don't know how available it would be to put salt water in. I think there is a dry hole

in Section 17.

Q Does the Ralph Lowe estate have any dry holes on its leases?

A No, sir, they do not.

Q What is this well in the northwest of the northwest of Section 17?

A Northwest of the northwest--that is a Bass well, I believe, isn't it?

Q Well, I believe it is on the R. and B. lease?

A My map doesn't show a well. That shows the oil well there, yes, that is the No. 1-YD in the northwest of the northwest of 17.

Q Well, it appears on this exhibit that I have, that there is also a dry hole shown there in that 40-acre tract?

A Well, that I don't have any information on.

Q And then up here in Section 8, Mr. Smith, immediately north of your tank battery there, it appears that there is a dry hole there. Do you know what depth that well is?

A No, I don't have it. It shows here, 3,761 total depth.

Q 3,761?

A Yes.

Q Do you know of any study that has been made to

consider the feasibility of using that well for salt water disposal?

A No, sir.

Q You made no study?

A No, sir.

Q Mr. Smith, what is this, the line that runs around here on this exhibit? Is that the outer boundary of the leases?

A Yes, that State lease covers two and a little better sections. I believe on your map it has it in red, and they photostated those after they drew the red lines around those leases.

MR. NUTTER: I believe that is all.

MR. McDERMOTT: If the Commission please, it appears that we had a statement to three unlined surface pits in the application, whereas we are only asking for the use of two. I presume it would be necessary to republish in that case, or just have it corrected?

MR. PORTER: You asked for two?

MR. McDERMOTT: That is all. We only have two in the area, although I notice in the application--

THE WITNESS: Well, the application was stated for the R. and B. Federal and Federal A, but they go in the same pit.

MR. PORTER: Since you are asking for less, we don't feel it would be necessary to readvertise, since you are actually asking for less than what appears in the advertisement.

Does anyone else have any question of Mr. Smith?

MR. McDERMOTT: At this time, I would like to have all the exhibits admitted in evidence.

MR. PORTER: What are those numbers?

MR. McDERMOTT: Exhibits 1 through 6.

MR. PORTER: If there is no objection, the Exhibits will be admitted. If there are no further questions, the witness may be excused.

(Whereupon, Applicant's Exhibits
Numbers 1, 2, 3, 4, 5, 6,
inclusive, were admitted in
evidence.)

Is there anything further to be offered in this Case?
If not, the Commission will take the Case under advisement, and
proceed to Case 4028.

I N D E X

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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.


COURT REPORTER



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87801

March 3, 1969

GOVERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

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

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

Re: Case No. 4025
Order No. R-3684
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.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC x

Artesia OCC x

Aztec OCC

Other State Engineer Office

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. 4025
Order No. R-3684

APPLICATION OF RALPH LOWE
FOR AN EXCEPTION TO ORDER
NO. R-3221, AS AMENDED,
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 15, 1969, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 28th day of February, 1969, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, 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 certain wells located in Sections 8, 17, and 18, Township 25 South, Range 30 East, NMPM, Corral Canyon-Delaware Pool, Eddy County, New Mexico.

(3) That effective January 1, 1969, Order (3) of Commission Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions, of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any

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Order No. R-3684

other place or in any manner which would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.

(4) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.

(5) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.

(6) That the applicant seeks an exception to the provisions of the aforesaid Order (3) to permit the continued disposal of salt water, produced by applicant's wells located in said Sections 8, 17, and 18, in two unlined surface pits located north of the well in Unit M of said Section 8 and east of the well in Unit A of said Section 18.

(7) That the applicant is presently disposing of approximately 160-170 barrels of produced water per day in the subject pits.

(8) That there are no shallow fresh water wells in the vicinity of the subject pits.

(9) That there appears to be no shallow fresh water in the vicinity of the subject pits for which a present or reasonably foreseeable beneficial use is or will be made that would be impaired by contamination.

(10) That the applicant should be permitted to continue to dispose of salt water, produced by his wells located in said Sections 8, 17, and 18, in the above-described surface pits.

IT IS THEREFORE ORDERED:

(1) That the applicant, Ralph Lowe, is hereby granted an exception to Order (3) of Commission Order No. R-3221, as amended,

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Order No. R-3684

to continue to dispose of water produced in conjunction with the production of oil or gas, or both, by his wells located in Sections 8, 17, and 18, Township 25 South, Range 30 East, NMPM, Corral Canyon-Delaware Pool, Eddy County, New Mexico, in the two unlined surface pits located north of the well in Unit M of said Section 8 and east of the well in Unit A of said Section 18 until further order of the Commission.

(2) That the Commission may by administrative order rescind such authority whenever it reasonably appears to the Commission that such rescission would serve to protect fresh water supplies from contamination.


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

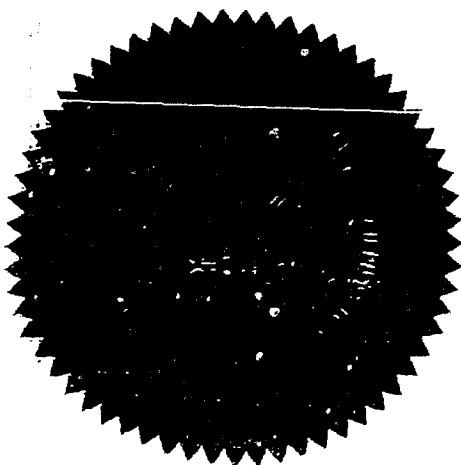
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


ALEX J. ARMILLO, Member


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



esr/

DOCKET: REGULAR HEARING - WEDNESDAY - JANUARY 15, 1969

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

ALLOWABLE: (1) Consideration of the oil allowable for February, 1969;

(2) Consideration of the allowable production of gas for February, 1969, from thirteen prorated pools in Lea, Eddy and Roosevelt Counties, New Mexico. Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for February, 1969.

CASE 3996: (Continued from the December 18, 1968, Regular Hearing)
Application of Martin Yates, III, for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the applicant's Cordie King Well No. 1 located in Unit L of Section 22, Township 23 South, Range 26 East, Dark Canyon (Delaware) Pool, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in an unlined surface pit located in the aforesaid quarter-quarter section.

CASE 4021: Application of Charles B. Read for an exception to Order No. R-3221, as amended, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the applicant's well located in Unit C of Section 16, Township 20 South, Range 33 East, West Texas Inter-Seven Rivers Pool, Lea County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in an unlined surface pit located in the aforesaid Unit J.

- CASE 4022: Application of Ernest A. Hanson for an exception to Order No. R-3221, as amended, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the applicant's Atlantic State Well No. 1 located in Unit 1 of Section 16, Township 20 South, Range 33 East, West Texas-Seven Rivers Pool, Lea County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in an unlined surface pit located in the aforesaid Unit 1.
- CASE 4023: Application of Ernest A. Hanson for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation in the perforated interval from approximately 1994 feet to 2178 feet in his Walsh Federal Well No. 2 located 1650 feet from the North line and 2310 feet from the West line of Section 22, Township 19 South, Range 28 East, East Millman Queen-Grayburg Pool, Eddy County, New Mexico.
- CASE 4024: Application of V. S. Welch for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the applicant's wells located in Section 27, Township 18 South, Range 31 East, Shugart Pool, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in unlined surface pits located in said Section 27. In the alternative, applicant seeks a temporary extension of at least six months in which to comply with the provisions of said order.
- CASE 4025: Application of Ralph Lowe for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the applicant's leases in sections 8, 17, and 18, Township 25 South, Range 30 East, Chaves-Sevens Pool, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in three unlined surface pits located in sections 8, 17, and 18.

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CASE 4026: Application of Fred Pool Drilling Company for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the applicant's leases located in Sections 8 and 9, Township 25 South, Range 30 East, Gerral Canyon-Delaware Pool, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in three unlined surface pits located in the SW/4 NW/4 and the SE/4 SE/4 of said Section 8, and the SW/4 SW/4 of said Section 9.

CASE 4027: Application of MacDonald Oil Corporation for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the applicant's Sinclair Purke Well No. 1 located in Unit F of Section 12, Township 17 South, Range 30 East, Jackson Abs Pool, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in an unlined surface pit located in the aforesaid Unit F.

CASE 4028: Southeastern nomenclature case drilling for an order for the creation, extension and abolishment of certain pools in Lea, Chaves, Roosevelt and Eddy Counties, New Mexico.

(a) Create a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the Siere-San Andres Pool. The discovery well is the G. L. Brown, Jr. Federal "NM" Well No. 1 located in Unit F of Section 17, Township 8 South, Range 31 East, NMMS. Said pool should comprise the following-described area:

SECTION 8, TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMMS
Section 17, SW/4

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(Case 4028 continued)

(b) Create a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Vacuum Morrow Gas Pool. The discovery well is Phillips Petroleum Company, Lea No. 23 located in Unit P of Section 30. Township 17 South, Range 34 East, NMPM. Said pool should comprise the following-described area:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 30: E/2

(c) Create a new pool in Lea County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Wilson-Wolfcamp Gas Pool. The discovery well is Phillips Petroleum Company, Wilson "J" No. 1 located in Unit O of Section 5, Township 21 South, Range 35 East, NMPM. Said pool should comprise the following-described area:

TOWNSHIP 21 SOUTH, RANGE 35 EAST, NMPM
Section 5: Lots 9, 10, 15 and 16

(d) Extend the Middle Allison-Pennsylvanian Pool in Lea and Roosevelt Counties, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM
Section 33: SW/4

TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM
Section 1: SE/4

TOWNSHIP 9 SOUTH, RANGE 36 EAST, NMPM
Section 4: SE/4
Section 6: All

(e) Extend the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
Section 7: SE/4
Section 30: NW/4
Section 32: SE/4

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(f) Extend the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM

Section 33: SE/4

(g) Extend the Flying "M" Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM

Section 10: SW/4

(h) Extend the Teague-Blinebry Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 37 EAST, NMPM

Section 20: NE/4

(i) Abolish the East Inba-Pennsylvanian Pool in Lea County, New Mexico, described as:

TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM

Section 30: SW/4

(j) Extend the Vada-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM

Section 22: NW/4

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM

Section 25: E/2

Section 36: N/2

TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM

Section 9: W/2

Section 16: NW/4

Section 19: S/2

Section 30: S/2

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(k) Extend the Tuba-Pennsylvanian Pool in Lea County,
New Mexico, to include therein:

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM

Section 25: W/2

Section 36: SE/4

TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM

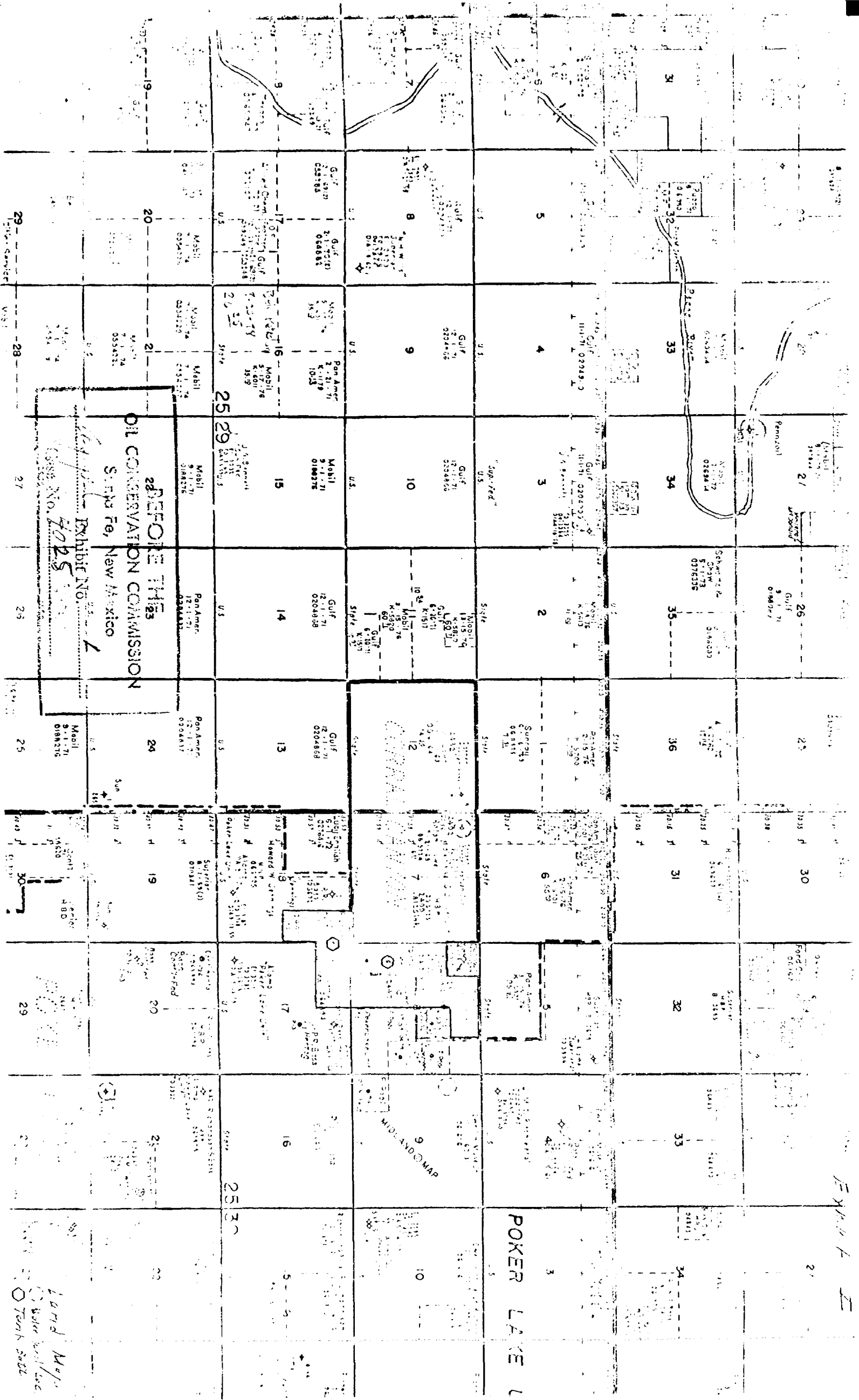
Section 4: Lots 1, 2, and 3, E/2 SW/4,
and SE/4

(l) Extend the vertical limits of South Hope Strawn
gas pool to include all of the Pennsylvanian formation
and redesignate said pool as the South Hope-Pennsylvanian
Pool; extend the horizontal limits of said South Hope-
Pennsylvanian gas pool to include therein:

TOWNSHIP 18 SOUTH, RANGE 23 EAST, NMPM

Section 19: All

EXHIBIT I



BEFORE THE
OIL CONSERVATION COMMISSION
State Fe, New Mexico

Exhibit No. 1
Case No. 4025

Land Map
Poker Lake
Tank 5022

Exhibit II

SAMPLE NO. _____

THE WESTERN COMPANY
Service Laboratory

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

Exhibit No. _____

Case No. 225

WATER ANALYSIS

Operator Ralph Lowe Estate
Well Water Well
Field
Formation
Depth
County Eddy, New Mexico

Date Sampled
Date Received 1-7-69
Submitted by Ralph Lowe Estate
Worked by Jones
Other Description About 600' or 700' Northeast of
Pool Drilling Co. - Superior State
#1 Well, Sec 4-T25-S-R30-E

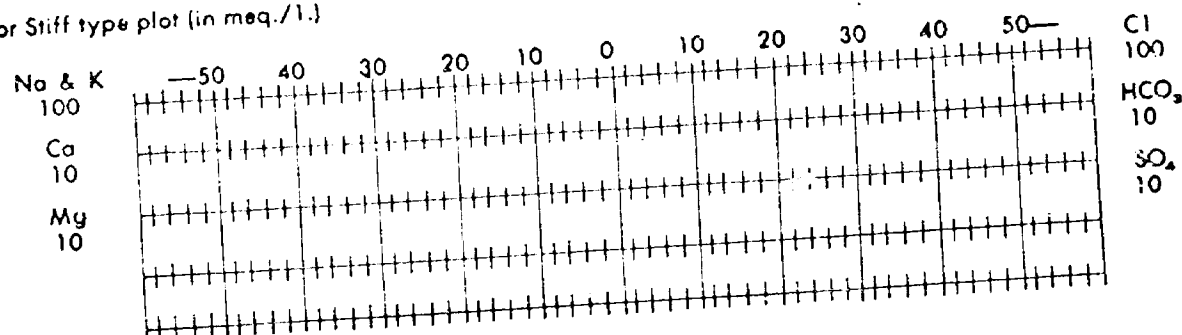
CHEMICAL DETERMINATIONS

Density	1.005 @ 71° F	pH	7.6
Iron	No Trace	Hydrogen Sulfide	None
Sodium and Potassium	252 ppm	Bicarbonate	256 ppm
Calcium	655 ppm	Sulfate	2,120 ppm
Magnesium	151 ppm	Phosphate	ppm
Chloride	272 ppm	as Sodium Chloride	ppm

Total dissolved solids 3,706 ppm

Remarks:

for Stiff type plot (in meq./l.)



Per _____

SAMPLE NO. _____

THE WESTERN COMPANY
Service Laboratory

EXHIBIT III

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Exhibit No. 3
Case No. 502-5

WATER ANALYSIS

Operator Ralph Lowe Estate
Well Water Well
Field
Formation
Depth
County Eddy, New Mexico

Date Sampled
Date Received 1-7-69
Submitted by Ralph Lowe Estate
Worked by Jones
Other Description Northwest $\frac{1}{4}$ of Northwest $\frac{1}{4}$ of Sec 7, T-25-S-R-30-E

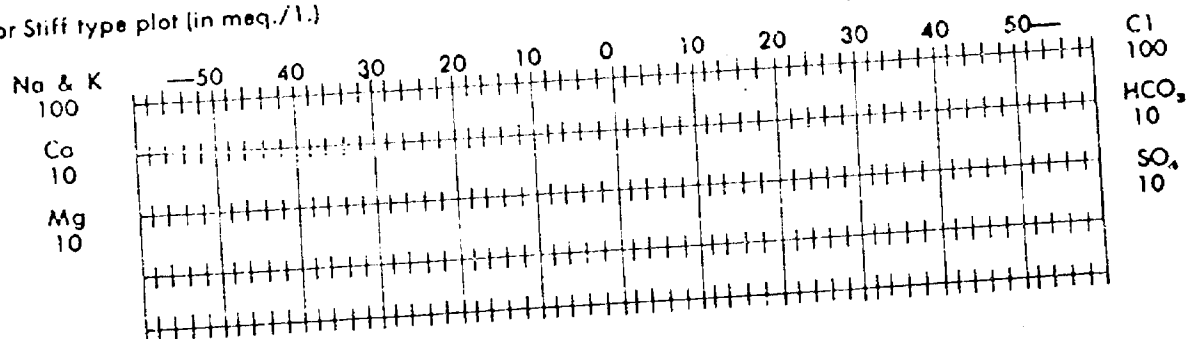
CHEMICAL DETERMINATIONS

Density 1.005 @ 71⁰F
Iron Very Faint Trace
Sodium and Potassium 234 ppm
Calcium 88 ppm
Magnesium 49 ppm
Chloride 208 ppm as Sodium Chloride
pH 8.9
Hydrogen Sulfide None
Bicarbonate 293 ppm
Sulfate 380 ppm
Phosphate _____ ppm

Total dissolved solids 1,252 ppm.

Remarks:

for Stiff type plot (in meq./l.)



Per _____

Exhibit 12

SAMPLE NO. _____

THE WESTERN COMPANY
Service Laboratory

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

Exhibit No. 34

No. 4025

WATER ANALYSIS

Operator Ralph Lowe
Well State #1
Field Poker Lake
Formation Delaware
Depth 3673-3679'
County Eddy, New Mexico

Date Sampled 1-10-69
Date Received 1-10-69
Submitted by Bill Scott
Worked by Koehl
Other Description Sec. 8, T-25-S, R-30-E
660' F59 WL

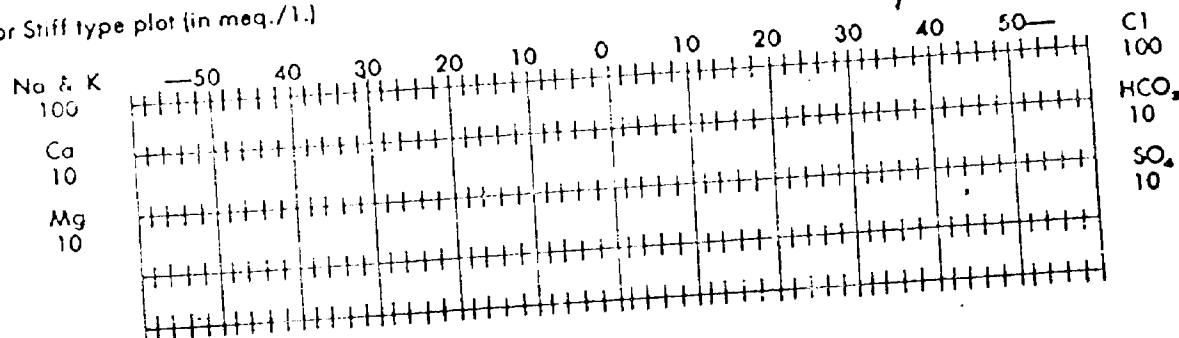
CHEMICAL DETERMINATIONS

Density 1.101 at 65°F
Iron Faint trace
Sodium and Potassium 50,900 ppm
Calcium 7,740 ppm
Magnesium 1,580 ppm
Chloride 96,400 ppm as Sodium Chloride
pH 7.2
Hydrogen Sulfide None
Bicarbonate 281 ppm
Sulfate 540 ppm
Phosphate ppm

Remarks:

157,841

for Stiff type plot (in meq./l.)

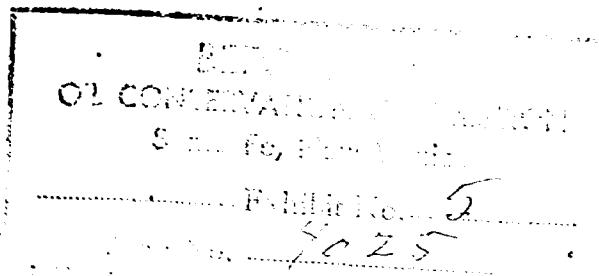


Per _____

SAMPLE NO. _____

Exhibit V

THE WESTERN COMPANY
Service Laboratory



WATER ANALYSIS

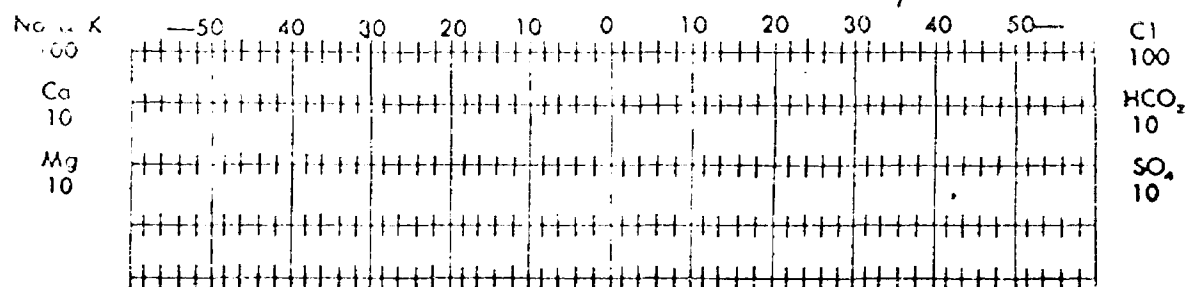
Operator	Ralph Lowe	Date Sampled	1-10-69
Well	R. B. Federal #1	Date Received	1-10-69
Field	Poker Lake	Submitted by	Bill Scott
Formation	Delaware	Worked by	Koehl
Depth	3639-3645'	Other Description	Sec. 18, T-25-S, R-30-E 660 FN. EL
County	Eddy, New Mexico		

CHEMICAL DETERMINATIONS

Density	1.101 at 65°F	pH	7.5
Iron	Fair Trace	Hydrogen Sulfide	None
Sodium and Potassium	55,450 ppm	Bicarbonate	329 ppm
Calcium	7,660 ppm	Sulfate	570 ppm
Magnesium	1,608 ppm	Phosphate	ppm
Chloride	97,200 ppm	as Sodium Chloride	ppm

Remarks:

for Stiff type plot (in meq./l.)



Per _____

Exhibit 72

SAMPLE NO. _____

THE WESTERN COMPANY
Service Laboratory

BEFORE THE
OIL CONSERVATION COMMISSION
State of New Mexico
Exhibit No. 6
1-25

WATER ANALYSIS

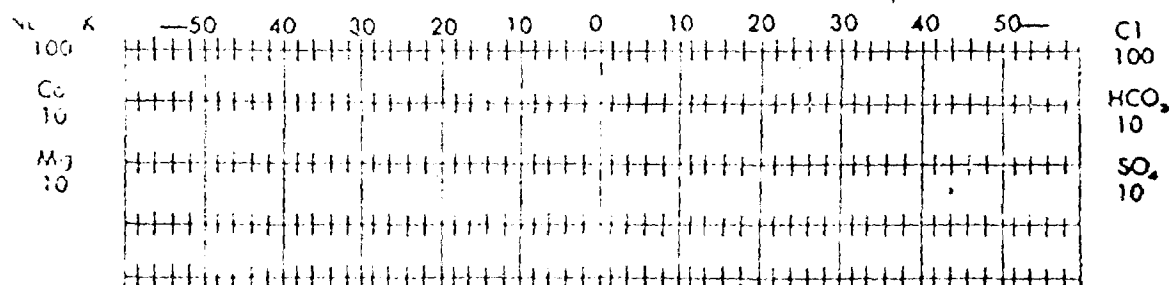
Operator	Ralph Lowe	Date Sampled	1-10-69
Well	R. B. Federal "AY" #1	Date Received	1-10-69
Field	Poker Lake	Submitted by	Bill Scott
Formation	Delaware	Worked by	Koehl
Depth	3687-3692	Other Description	Sec. 17, T-25-S, R-30-E GILFEN & GILFEL
County	Eddy, New Mexico		

CHEMICAL DETERMINATIONS

Density	1.100 at 66°F	pH	7.1
Iron	Trace	Hydrogen Sulfide	None
Sodium and Potassium	51,300 ppm	Bicarbonate	268 ppm
Calcium	7,850 ppm	Sulfate	460 ppm
Magnesium	1,435 ppm	Phosphate	ppm
Chloride	96,800 ppm	as Sodium Chloride	ppm

Remarks:

for Stiff type plot (in meq./l.)



Per _____

RAILROAD COMMISSION REPORTS PREPARED
PROPERTY MANAGEMENT
LEASE APPRAISALS
EVALUATIONS

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

WEST TEXAS OIL REPORTS
AND ENGINEERING SERVICE

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

MIDLAND, TEXAS

December 9, 1968

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

Dear Sir:

In accordance with Rule 1203, application is hereby made on behalf of Ralph Lowe for an Examiner's Hearing before the Oil Conservation Commission for the purpose of presenting evidence to obtain the Commission's approval to dispose of produced oil field brine into surface evaporation pits on his leases located in the Corral Canyon (Delaware) Field, Eddy County, New Mexico.

The pits are to be located as follows:

Poker Lake State	8 - 25 - 30
R&B Federal	18 - 25 - 30
R&B "A" Federal	17 - 25 - 30

Interested parties have this day been furnished a copy of this request. They are:

Ferry R. Bass, Box 171, Midland, Texas 79701
Fred Pool Drilling Co., Box 100, Orla, Texas 79770
U. S. Geological Survey, Drawer U, Artesia, New Mexico
W. W. Snyder Estate, Box 726, Lovington, New Mexico
J. George Ross, Box 1291, Pecos, Texas 79772
New Mexico State Land Office, Box 1148, Santa Fe, New Mexico
Ralph Lowe, Box 832, Midland, Texas 79701

Yours truly,

Everett L. Smith,
Petroleum Engineer

ELS:ar

CC: 8

DOCKETED

1-1-69

RAILROAD COMMISSION REPORTS PREPARED
PROPERTY MANAGEMENT
LEASE APPRAISALS
EVALUATIONS

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

**WEST TEXAS OIL REPORTS
AND ENGINEERING SERVICE**


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

EVERETT L. SMITH
REGISTERED PROFESSIONAL ENGINEER

MIDLAND, TEXAS

LAMAR ESCHBERGER
REGISTERED PROFESSIONAL ENGINEER

October 21, 1968


Oil Conservation Commission
Drawer DD
Artesia, New Mexico

Attention: Mr. Armstrong

Dear Sir:

We are writing in behalf of Ralph Lowe concerning his three leases located in the Corral Canyon (Delaware) Field, Eddy County, New Mexico. Ralph Lowe sincerely requests an exemption to the "no-pit" order on the leases listed below.

They are all producing into the same tank battery and only one evaporation pit would be necessary to take care of all the salt water produced. The leases are currently producing approximately 150 barrels per day. The wells concerned are the:

Pok. La. St. Well #1M 8-25-30
R&B Fed Well #1A 18-25-30
R&B "A" Fed Well #1Y D 17-25-30

The Federal leases are in the Poker Lake unit operated by Perry R. Bass.

Yours truly,



Everett L. Smith,
Petroleum Engineer

ELS:ar

CC: OCC
Ralph Lowe

RECEIVED

OCT 22 1968

REG. OFFICE

DRAFT

GMH/esr
2-20-69

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. 4025

Order No. R-2684

LM
APPLICATION OF RALPH LOWE
FOR AN EXCEPTION TO ORDER
NO. R-3221, AS AMENDED, EDDY
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 15, 1969, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this _____ day of February, 1969, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, 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 certain wells located in Sections 8, 17, and 18, Township 25 South, Range 30 East, NMPM, Corral-^{Camp}Delaware Pool, Eddy County, New Mexico.

(3) That effective January 1, 1969, Order (3) of Commission Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions, of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any

other place or in any manner which would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.

(4) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.

(5) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.

(6) That the applicant seeks an exception to the provisions of the aforesaid Order (3) to permit the continued disposal of salt water, produced by applicant's wells located in said Sections 8, 17, and 18, in ~~three~~ ^{two} north of the well in Unit M of said Section 18, and east of the well in Unit A of said Section 18.

(7) That the applicant is presently disposing of approximately 160-170 barrels of produced water per day in the subject pits.

(8) That there are no shallow fresh water wells in the vicinity of the subject pits.

(9) That there appears to be no shallow fresh water in the vicinity of the subject pits for which a present or reasonably foreseeable beneficial use is or will be made that would be impaired by contamination.

(10) That the applicant should be permitted to continue to dispose of salt water, produced by his wells located in said Sections 8, 17, and 18, in the above-described surface pits.

IT IS THEREFORE ORDERED:

(1) That the applicant, Ralph Lowe, is hereby granted an exception to Order (3) of Commission Order No. R-3221, as amended, to continue to dispose of water produced in conjunction with the production of oil or gas, or both, by his wells located in Sections 8, 17, and 18, Township 25 South, Range 30 East, NMPM, ^{Canyon} Corral-Delaware Pool, Eddy County, New Mexico, in the two unlined surface pits located ^(north of the well in Unit M of said) ~~in said Sections 8, 17, and 18~~ and east of the well in Unit M of said Section 18, until further order of the Commission.

(2) That the Commission may by administrative order rescind such authority whenever it reasonably appears to the Commission that such rescission would serve to protect fresh water supplies from contamination.

(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.