Case Number.

Application Transcripts.

Small Exhibits

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1120 SIMMS BLDG. . P. O. BOX 1092. PHONE 245-6671 . AIBUQUERQUE, NEW MEXICO

BEFORE THE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

May 21, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Tamarack Petroleum Corporation, Inc.,) for salt water disposal, Lea) County, New Mexico.

Case 4142

12

BEFORE: ELVIS A. UTZ, Examiner



TRANSCRIPT OF HEARING

MR. UTZ; Case 4142.

MR. HATCH: Application of Tamarack Petroleum Corporation, Inc., for salt water disposal, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin appearing on behalf of Applicant, and I have one witness to be sworn.

(Witness sworn)

(Thereupon, Applicant's Exhibits 1 through 4 was marked for identification.)

MR. UTZ: Any other appearances? You may proceed.

ALBERT METCALFE

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Will you state your name, please?
- A Albert Metcalfe.
- Q Mr. Metcalfe, by whom are you employed, and in what position?
- A I am Vice-President of Tamarack Petroleum Corporation.

- Ω And is Tamarack Petroleum the Applicant in this case: 4142?
 - A They are.
- Q Have you testified before the Oil Conservation Commission here before?
 - A Yes, sir.
 - Q Making qualifications a matter of record?
 - A Yes, sir.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. UTZ: Yes, sir.

MR. KELLAHIN: Mr. Metcalfe, what is the proposal of Tamarack in this application?

- A We are asking the Commission's approval to convert our Cabot 15 State No. 2 Well in the Pearl-Queen field into a salt water disposal well.
- Q Now, referring to what has been marked as Applicant's Exhibit No. 1, will you identify that exhibit?
- A Exhibit 1 is a plat of the northeast portion of the Pearl-Queen field, showing the well presently

injecting water into the Queen sand, and, in red, the well we proposed to convert to an injector.

- Q Now, the well marked in red, would that be on a consistent pattern with the remainder of the water injection program in this pool?
- A It would be. We are unitizing this area, now, for waterflood and the -- and the well shown in red will continue to be an injection well, as an input well in our flood.
- Q But for the present, it will be used as a salt water disposal well, is that correct?
 - A Yes, sir.
- Q Did you not secure approval of this Commission for a salt water disposal well in Section 23?
 - A Yes, sir.
 - Q What is the situation as to that well?
- A After receiving approval from the Commission, before we could start before we could convert the well to injector, it started responding to a water being injected in other wells, and the production increase from 3 barrels a day to a present of 33 barrels. So, since it is responding, we want to retain it as a

producer.

- Q Now, has your No. 2, in Section 15, the one you presently propose to convert -- produced from the Queen formation?
 - A Yes, sir.
 - Q It is presently producing?
 - A Yes, sir.
- Q What is the productive capacity of the well at the present time?
 - A Less than one barrel a day.
- Q Would you consider it a marginal or stripper well at this point?
 - A Yes, sir.
- Q In your opinion, with the conversion of this well, through salt water disposal, cause any loss of recovery of oil from the Queen formation?
 - A No, sir.
- Q Would it have any adverse effect on the offsetting wells?
 - A No, sir.
 - Q Or property?
 - A No, sir.

- Referring to what has been marked as Exhibit No. 2; would you identify that exhibit?
 - Exhibit No. 2 is a Conservation Commission's form Clos, application to dispose salt water, by injection in a forced formation.
 - What bodies of water do you propose to inject into these wells?
 - A maximum of 350 barrels a day.
 - Where will this water come from?
 - Yes, it will come from one of the wells in the Q. northeast -- from 20 wells in the northeast portion of the Pearl-Queen field.
 - Q Willit, then, be injecting water into the Queen formation which was produced from the same formation?
 - That's correct.

وتيستنينت

- Referring to what has been marked as Exhibit No. 3, would you identify that exhibit?
- Exhibit No. 3 is a schematic diagram of our proposed installation of injecting water into this
- Was the cement circulated on the surface well. Q stream?

- Yes, sir.
- And the Exhibit shows the cement top as to the intermediate stream; is that correct?
 - Yes, sir.
- And the production string was cemented with Q how many sacks?
 - With 150 sacks. A
 - Do you have a calculated top on that? Q
 - 4,215 feet. Á
 - Now, will the well be completed for injection of water by use of a packer and internally coated tubing?
 - Yes, sir.
 - How will the tubing be coated? Will it be Q cement-lined or --
 - No, it will be plastic-coated. A
 - And will you fill the casing tubing with an inert Q fluid?
 - Yes, sir.
 - And what fluid do you expect to use? Q
 - Fresh water.
 - Will you put a pressure gauge at the surface? Q
 - Yes, sir.

- Q And is this the manner in which you completed the other injected wells in this area?
 - A Yes, sir.
- Now, referring to what has been marked as Exhibit
 No. 4, would you identify that exhibit?
- A Exhibit 4 is a Schlumberger sonic log of the proposed injection well, showing the top of the Queen formation, and all of the various Queen Sands.
- Q Mr. Metcalfe, in the advertising on Case 4142, you proposed to inject in the interval from 4,946 feet to 5,040 feet. Have you changed your plans in connection with that?
- A Well, we have. We originally proposed to inject in both the 5 and the 7 Sand, but upon close examination of the core analysis, we determined that the injection in the 5 Sand would contribute nothing to our waterflood, and it's probably too tight to take in any water, and so, we propose now to inject only the No. 5 zone through presently existing perforations from 4,946 to 4,963.
- Q Now, that would fall within the injection interval which was advertised, is that correct?
 - A That's correct.
- Q Were Exhibits 1 thru 4 prepared by you or under your supervision?
 - A Yes, sir.

MR. KELLAHIN: I offer in evidence Exhibits

1 through 4, inclusive, in evidence.

.MR. UTZ: Without objection, Exhibits 1 through

4 will entered in the record in this case.

(Thereupon, Applicant's Exhibits 1 through 4 were admitted in evidence.)

MR. KELLAHIN: That completes our direct examination.

CROSS EXAMINATION

BY MR. UTZ:

- Q All of these injections will be into the Queen, right?
 - A Yes, sir.
- Q And it will be salt water that you will be injecting here?
 - A Yes, sir.

MR. UTZ: Any questions of the witness?

You may be excused. Statements? The case will be taken under advisement.

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STATE OF NEW MEXICO)

(COUNTY OF BERNALILLO)

I, CA FENLEY, 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.

I do hereby sertify that the foregoing is a complete record of the proceedings in the Braziner hearing of Case No. 44 7 2 19 6.9 -

Olu Tinles)

New Mexico Oil Conservation Commission

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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501 LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER
STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

GOVERNOR
DAVID F. CARGO
CHAIRMAN

May 28, 1969

Mr. Jason Kellahin Kellahin & Fox Autorneys at Law Post Office Box 1769 Santa Fe, New Mexico Re: Case No. 4142
Order No. R-3772
Applicant:

Tamarack Petroleum Company

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

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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. 4142 Order No. R-3772

APPLICATION OF TAMARACK PETROLEUM COMPANY, INC., 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 May 21, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 28th day of May, 1969, 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, Tamarack Petroleum Company, Inc., is the owner and operator of the Cabot 15 State Well No. 2, located in Unit P of Section 15, Township 19 South, Range 35 East, NMPM, Pearl-Queen Pool, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Queen formation, with injection into the perforated interval from approximately 4946 fest to 4963 feet.
- (4) That the injection should be accomplished through 2 3/8-inch plastic lined tubing installed in a packer set at approximately 4900 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-CASE No. 4142 Order No. R-3772

be attached to the annulus 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, Tamarack Petroleum Company, Inc., is hereby authorized to utilize its Cabot 15 State Well No. 2, located in Unit P of Section 15, Township 19 South, Range 35 East, NMPM, Pearl-Queen Pool, Lea County, New Mexico, to dispose of produced salt water into the Queen formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 4900 feet, with injection into the perforated interval from approximately 4946 feet to 4963 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 at the surface in order to determine leakage in the casing, tubing, or packer.

- (2) That the applicant shall submit monthly reports of its 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 CONSTRUCTION COMMISSION

DAVID F. CARGO, Chairman

ALEN J. ARMIJO Momber

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

esr/

4142 Lead 5-21-69 Rec. 5-236 9. Grant Damorack permission to convert their Cabet'ls It #2 P-15-195-35E, to a SwD well. Injection Shall he into Plase Julien Days 4946-63 thrur.

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Docket No. 15-69

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 21, 1969

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

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

CASE 3405: (Reopened) (Continued from the May 7, 1969 Examiner Hearing)

In the matter of Case No. 3405 being reopened pursuant to the provisions of Order No. R-3081, which order established 640-acre spacing for the North Indian Hills-Morrow Gas Pool, Eddy County, New Mexico, for a period of one year after first pipeline connection in the pool. All interested parties may appear and show cause why said pool should or should not be developed on 320-acre spacing units.

CASE 4131: Application of Gulf Oil Corporation for downhole commingling,
Lea County, New Mexico. Applicant, in the above-styled cause,
seeks authority to commingle production from the Jalmat and
South Eunice oil pools, Lea County, New Mexico, in the wellbores
of six wells located as follows:

TOWNSHIP 21 SOUTH, RANGE 36 EAST

Arnott Ramsay (NCT-D) Well No. 6 - Unit K - Section 33 Arnott Ramsay (NCT-D) Well No. 7 - Unit M - Section 33 Arnott Ramsay (NCT-D) Well No. 8 - Unit N - Section 33 Arnott Ramsay (NCT-D) Well No. 9 - Unit L - Section 33 J. F. Janda (NCT-B) Well No. 4 - Unit O - Section 32

TOWNSHIP 22 SOUTH, RANGE 36 EAST

J. F. Janda (NCT-F) Well No. 8 - Unit C - Section 4

CASE 4132: Application of Pan American Petroleum 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 three wells located in Unit D, E, and P of Section 27, Township 18 South, Range 31 East, Shugart Field, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of salt water produced in two unlined surface pits located in the E/2 of said Section 27.

- CASE 4133: Application of Skelly Oil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Dollarhide Drinkard Unit Area comprising 3,533.52 acres, more or less, of Fee, Federal, and State lands in Townships 24 and 25 South, Range 38 East, Lea
- CASE 4134: Application of Skelly Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its West Dollarhide Drinkard Unit Area by the injection of water into the Tubb-Drinkard formation through 43 wells located in Townships 24 and 25 South, Range 38 East, Dollarhide Tubb-Drinkard Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively CASE 4135:
- Application of Roy E. Kimsey, Jr. 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 or gas or both, 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 P. R. Bass-Federal Well No. 1 located in Unit F of Section 3, Township 16 South, Range 30 East, West Henshaw Pool, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in an unlined surface pit located near said well. CASE 4136:
- Application of Mallard Petroleum, Inc., 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 formation in the interval from 3606 feet to 3627 feet in its Milner Federal Well No. 4 located in Unit C of Section 35, Township 20 South, Range 34 East, Lynch Pool, Lea County, New Mexico.
- CASE 4137: Application of Atlantic Richfield Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the East Shugart Unit Area comprising 1359.40 acres, more or less, of Federal and State lands in Townships 18 and 19 South, Range 31 East, Eddy County, New Mexico.

- CASE 4138: Application of Atlantic Richfield Company for a waterflood project and unorthodox injection well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Yates-Seven Rivers-Queen formations through 11 wells in Townships 18 and 19 South, Range 31 East, Shugart Pool, Eddy County, New Mexico. Applicant further seeks an exception to permit the drilling of one of said wells at an unorthodox location 100 feet from the South line and 990 feet from the West line of Section 35, Township 18 South, Range 31 East.
- CASE 4139: Application of Allied Chemical Corporation for a unit agreement, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Milnesand (San Andres)
 Unit Area comprising 5370.18 acres, more or less, of Federal and Fee lands in Township 8 South, Ranges 34 and 35 East, Roosevelt County, New Mexico.
- CASE 4140: Application of Allied Chemical Corporation for a waterflood project, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a water-flood project in its Milnesand (San Andres) Unit Area by the injection of water into the San Andres formation through 33 wells located in Township 8 South, Ranges 34 and 35 East, Milnesand-San Andres Pool, Roosevelt County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively without a showing of well response.
- CASE 4141: Application of McCasland Disposal System for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers formation in the intervals from approximately 3756 feet to 3851 feet and from approximately 3918 feet to 3939 feet, respectively, in the Getty Oil Company J. H. Day Wells Nos. 1 and 2, both 1 sted in the NW/4 of Section 8, Township 22 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.

42: Application of Tamarack Petroleum Corporation, Inc., for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water by injection into the Queen formation in the interval from 4946 feet to 5040 feet in its Cabot 15 State Well No. 2 located in Unit P of Section 15, Township 19 South,

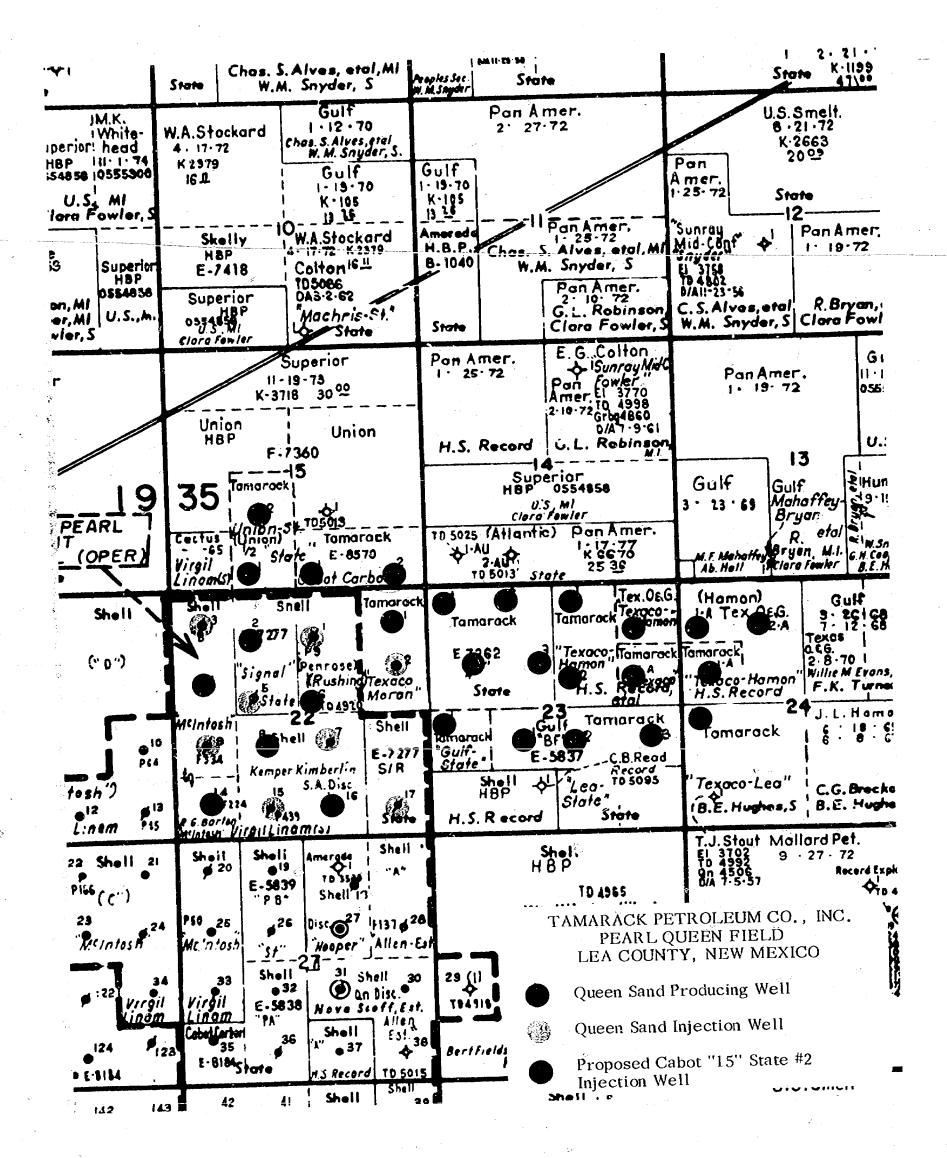
Range 35 East, Pearl-Queen Pool, Lea County, New Mexico.

CASE 4142:

CASE 4143: Application of Amerada Petroleum Corporation for downhole commingling and special gas-oil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Eumont Gas Pool and the Skaggs-Grayburg Pool in the wellbore of its Fred Turner, Jr., "A" Well No. 2, the Eumont completion of which is presently classified as a gas completion, located in Unit K of Section 18, Township 20 South, Range 38 East, Lea County, New Mexico. Applicant, further seeks the establishment of a special gas-oil ratio limitation for the subject well.

CASE 4121:

(Continued from the May 7, 1969 Examiner Hearing) Application of Roger C. Hanks for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Bar U-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre spacing and proration units and the assignment of 80-acre allowables.



BEFORE EXAMINER UTZ

Revised 1-1-65

OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

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NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well. not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

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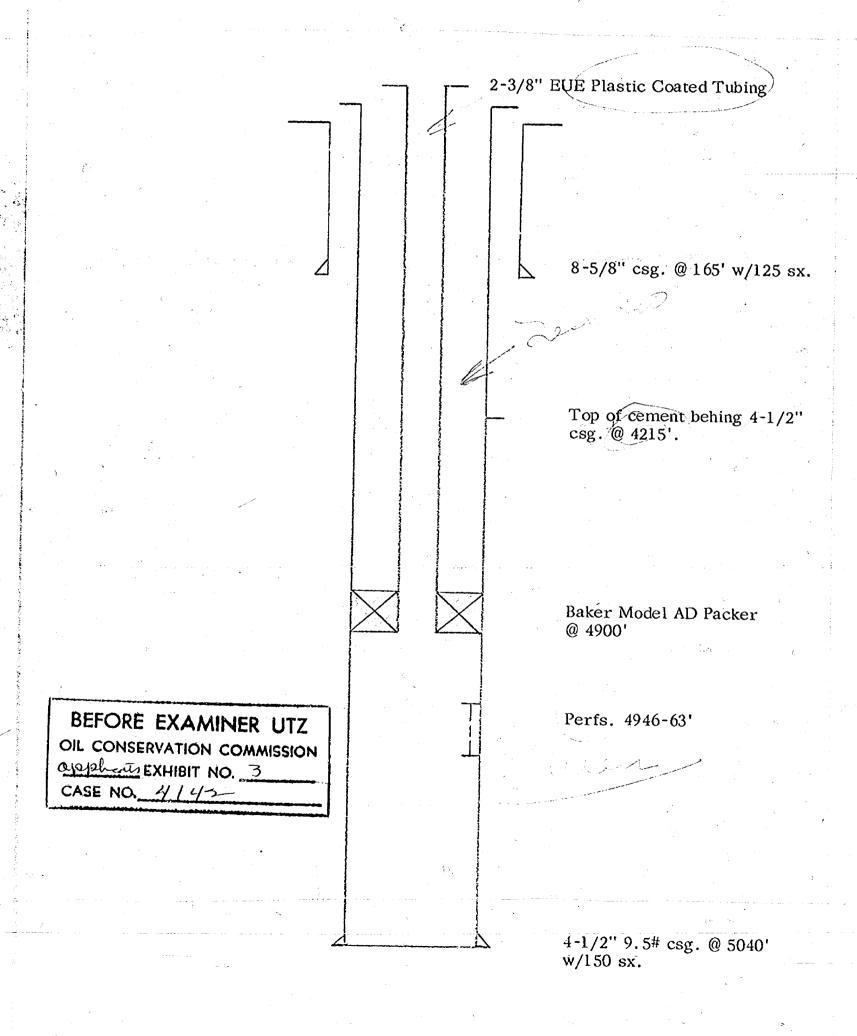
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TAMARACK PETROLEUM COMPANY, INC.

Cabot "15" State No. 2 Proposed Injection Well



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:

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CASE No. 4142 Order No. R-3777-

COMPANY,

APPLICATION OF TAMARACK PETROLEUM CORPORATION, INC., 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 May 21, 1969, at Santa Fe, New Mexico, before Examiner ___ Elvis A. Utz

day of May , 1969, 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,

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- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
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- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Queen formation, with injection into the perfectly interval from approximately 4946 feet to 5040 feet.
- (4) That the injection should be accomplished through 2 % -inch plastic-lined tubing installed in a packer set at

approximately 4900 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the antulus 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, Tamarack Petroleum Corporation, Inc., is hereby authorized to utilize its Cabot 15 State Well No. 2, located in Unit P of Section 15. Township 19 South, Range 35 East, NMPM, Pearl-Queen Pool , Lea

County, New Mexico, to dispose of produced salt water into the Queen formation, injection to be accomplished through 23% -inch tubing installed in a packer set at approximately 4900 feet, with injection into the perforated interval from approximately 4946 feet to 5040 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 its 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.