

CASE 5279: Application of TOM L.
INGRAM FOR SALT WATER DISPOSAL,
LEA COUNTY, NEW MEXICO.

CASE No.

5279

Application,

Transcripts,

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 24, 1974

EXAMINER HEARING

IN THE MATTER OF:

Application of Tom L. Ingram for salt
water disposal, Lea County, New Mexico.

Case No.
5279

BEFORE: Richard L. Stamets, Examiner.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

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

For the Applicant:

Clarence Hinkle, Esq.
HINKLE, BONDURANT, COX
& EATON
Hinkle Building
Roswell, New Mexico

I N D E X

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E X H I B I T S

	<u>Marked</u>	<u>Admitted</u>
Applicant's Exhibits Nos. 1 through 8	--	10

AHLEN-DIRECT

CASE 5279

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MR. STAMETS: Call the next Case, 5279.

MR. CARR: Case 5279. Application of Tom L. Ingram
for salt water disposal, Lea County, New Mexico.

MR. HINKLE: Clarence Hinkle, of Hinkle, Bondurant,
Cox & Eaton, appearing on behalf of Tom Ingram. We have
one witness and 8 exhibits.

MR. STAMETS: Any other appearances in this Case?
The Witness will stand and be sworn, please.

(Witness sworn.)

JACK AHLEN

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

DIRECT EXAMINATION

BY MR. HINKLE:

Q State your name and your residence?

A My name is Jack Ahlen, I live in Roswell, New
Mexico.

Q Are you a consulting geologist?

A Yes, sir, I am a consulting geologist?

Q Have you been employed by Tom Ingram, the Applicant
in this Case?

A Yes, sir, I have.

Q Have you previously testified before the Oil

Conservation Commission?

A Yes, sir.

Q And your qualifications as a Petroleum Geologist are a matter of record with the Commission?

A That is correct.

Q Have you made a study of the area that is involved in this Case?

A Yes, sir, I have.

MR. HINKLE: Are his qualifications sufficient?

MR. STAMETS: They are.

BY MR. HINKLE:

Q Are you familiar with the Application of Tom Ingram in this Case?

A Yes, sir, I am familiar with the Application.

Q What is he seeking to accomplish?

A Mr. Tom Ingram is seeking to dispose of produced water in a well that he has drilled in Section 7 of Township 24 South, 33 East. This well is not productive of oil and gas.

Q Have you prepared or has there been prepared under your direction certain Exhibits for introduction in this Case?

A Yes, sir. The Exhibits in this Case have been

prepared by myself.

Q They are the ones that have been marked 1 through 8?

A Yes, sir.

Q Refer to Exhibit 1 and explain what Exhibit 1 shows?

A Exhibit No. 1 is a plat showing the location of the proposed disposal well. It shows all wells drilled within a two-mile radius of that particular well; production in that area is all from the Delaware sand; it shows off-set operators, leasehold interests of various operators surrounding the proposed well. The production depth in this vicinity is near -- immediately below 5000 feet. It shows the location of the well that is producing the water that Mr. Ingram wants to dispose of in the northwest of the northwest of Section 7; the location of the proposed water well is 1980 from the north and 660 from the west of the same Section 7.

Q This area has been designated as triple X pool?

A Yes, sir, it has.

Q Now, refer to Exhibit No. 2 and explain that?

A Exhibit No. 2 is a structure-contour map with the datum on the top of the Delaware line; the contour interval

is 25 feet. It shows the location of the proposed disposal well as well as the well that is producing the liquid. It also shows the location of a previously approved disposal well which was heard last year at approximately this time for Hondo Drilling Company.

Q You testified in that Case?

A Yes, sir, I testified in this particular Case. This plat also shows the line of cross section A-A', which is Exhibit No. 3.

Q Refer to Exhibit 3 and explain that.

A Exhibit 3 has previously been entered into the record in the Case for Hondo Drilling Company and their water-disposal well. There is a section which shows stratigraphic correlations in the four wells running north south in Section 7 and Section 6. The proposed disposal well is on the south end of the section and it shows the -- on this particular Exhibit it is shown as a producing zone -- at that time it showed that it would be a producing zone; it no longer is. This is the zone into which we hope to inject the fluid.

Q This indicates it is all in the same pool?

A All four wells are in the same reservoir and same pool.

Q Now, refer to Exhibit 4 and explain that.

A Exhibit No. 4 is a diagram of the proposed disposal, the Tom Ingram No. 2 State "O." It indicates that 8-5/8th-inch casing is set at 421 feet, cement was circulated; 4-1/2-inch casing was set at 5204 feet, cemented with 200 sacks of cement, and top of cement was indicated by temperature survey at approximately 3000 feet. The top of the Delaware sand in this well is at 4990 feet, perforations at 5012 to 5033. We propose to set 2-3/8th-inch tubing at 4500 feet with a Baker Model R packer. This tubing will be protected by cement.

Q Cement lined?

A Yes, sir, this is cement lined tubing. We intend to place an inert fluid between the tubing and the casing; pressure on the casing will be monitored at the surface by a pressure gauge.

Q Refer to Exhibit 5 and explain that.

A Exhibit No. 5, 6 and 7 are water analysis done by Hall Burton and the Western Company in three wells along the cross section. Exhibit No. 5 is a complete water analysis of the discovery well in the pool, the Hondo Drilling Company No. 1, Gulf in W State. You will note that the chloride content is 152,000 parts per million.

which is a normal brine solution. You'll note that in Exhibit 6 and Exhibit 7 analysis for the Tom Ingram State "O" No. 1, the producing well, and the Tom Ingram State "O" No. 2, the proposed disposal well, the chloride content is approximately similar. The fluids are similar in the three wells and are compatible.

Q Now refer to Exhibit 8.

A Exhibit No. 8 is a letter which Mr. Ingram wrote to off-set operators within half a mile of the proposed disposal well, notifying them of the pending hearing, and we have a return receipt indicating that they received notification.

Q Have you had any objections to this proposed injection well?

A No, sir.

Q What is the quantity of water which is being disposed of in the Hondo Well which you referred to in Section 6?

A The quantity of water presently being disposed is approximately 20 barrels of water per day.

Q What do you contemplate to be disposed of as far as the Ingram Well is concerned?

A Approximately the same. In our Application we

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stated from 50 to 200 barrels per day.

Q It will simply be the water which is produced in Tom Ingram's producing well?

A Yes.

Q Which he has in the same section?

A Yes, sir.

Q Do you have anything else you would like to present to the Commission in connection with this matter?

A At some future date some other operators may approach us to dispose of their water in the Tom Ingram No. 2 Well also, and at that time we may want to inject.

Q Do you anticipate that any damage to the reservoir would be caused by this injection?

A No, sir. As a matter of fact, it will help the reservoir and help produce more oil than would normally be produced if we did not inject this water.

Q It would therefore be in the interests of conservation and prevention of waste and protect correlative rights?

A Yes, sir.

MR. HINKLE: We would like to offer Exhibits 1 through 8.

MR. STAMETS: Exhibits 1 through 8 will be admitted

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CROSS

CASE 5279
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into evidence.

(Whereupon, Applicant's Exhibits
Nos. 1 through 8 were admitted into
evidence.)

MR. HINKLE: That's all the direct.

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Ahlen, is it the intention of Tom Ingram to
set a pump on this Well or to inject by gravity?

A Gravity has been sufficient to inject the water
in the Hondo Wells. This Well has been on test and it
has accepted water to this date without a pump.

Q If a pump were to be set, I presume the maximum
pressure rating would be somewhat less than the fracture
pressure aforementioned?

A Yes, sir.

Q Would Tom Ingram be willing to notify the District
Office if a pump is set there and what the maximum pres-
sure rating of the equipment is?

A He certainly would.

Q Do you feel that the mechanical set-up of this
Well will protect the other formations and keep the water
going in the formation it is intended to?

AHLEN-CROSS

CASE 5279

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A Yes, sir, I do.

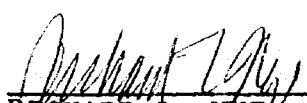
Q And the operator would be willing to notify the District Office any time there is a failure of any of this equipment and take appropriate remedial action?

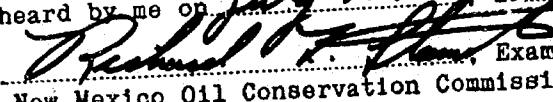
A Yes, sir.

MR. STAMETS: Are there any other questions of this Witness? You may be excused. Anything further in this Case? We will take the Case under advisement.

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

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


RICHARD L. NYE, Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5279, heard by me on July 24, 1964.

New Mexico Oil Conservation Commission



L. P. Thompson
Division Manager
Production Department
Hobbs Division

Continental Oil Company
P.O. Box 460
1001 North Turner
Hobbs, New Mexico 88240
(505) 393-4141

August 17, 1976

Stamets
Examiner

New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, NM 87501

Attention Mr. J. D. Ramey
Secretary-Director

Gentlemen:

Ingram - State 0 No. 2 - SWD Well - E-7-24S-33E, Lea County, New Mexico

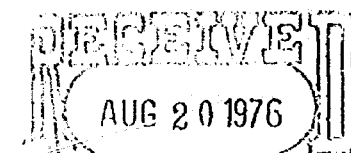
Order No. R-4833 entered in Case 5279 authorized Tom Ingram to use the State 0 No. 2 Well for salt water disposal, injecting water produced from the Triple X Delaware pools into the same sand body. Continental Oil Company has negotiated the purchase of this well for salt water disposal purposes and is in the process of making the transfer of ownership. Continental intends to dispose of Mr. Ingram's water as contemplated in Order No. R-4833 as well as the water produced from our Wimberly and Wimberly A leases producing from the Triple X and Double X pools.

It is assumed the authority granted in Order No. R-4833 is transferable to Continental Oil Company together with the ownership of the well. If this is not the case, please advise what steps Continental must take in order to have full authorization to utilize the well in the manner intended in its acquisition.

Yours very truly,

David A. Lowers

VTL:reh
CC:
CFE: FOH: JWK



OIL CONSERVATION COMM.
Santa Fe



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501

August 6, 1974

I. R. TRUJILLO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMJO
MEMBER

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

Mr. Clarence Hinkle
Hinkle, Bondurant, Cox & Eaton
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: CASE NO. 5279

ORDER NO. R-4833

Applicant:

Tom L. Ingram

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

Copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

Other

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. 5279
Order No. R-4833

APPLICATION OF TOM L. INGRAM
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 July 24, 1974, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 6th day of August, 1974, 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, Tom L. Ingram, is the owner and operator of the State "0" Well No. 2, located in Unit E of Section 7, Township 24 South, Range 33 East, NMPM, Triple X-Delaware Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced water into the Delaware Sand, with injection into the perforated interval from approximately 5012 feet to 5033 feet.

(4) That the injection should be accomplished through 2 3/8-inch cement-coated tubing installed in a packer set at approximately 4500 feet; that the casing-tubing annulus should be filled with an inert fluid and that a pressure gauge or other attention-attracting leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

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

-2-
CASE NO. 5279
Order No. R-4833

IT IS THEREFORE ORDERED:


(1) That the applicant, Tom L. Ingram is hereby authorized to utilize his State "0" Well No. 2, located in Unit E of Section 7, Township 24 South, Range 33 East, Triple X-Delaware Pool, Lea County, New Mexico, to dispose of produced salt water into the Delaware Sand, injection to be accomplished through 2 3/8-inch or larger tubing installed in a packer set at approximately 4500 feet, with injection into the perforated interval from approximately 5012 to 5033 feet;

PROVIDED HOWEVER, that the tubing shall be cement-coated; that the casing-tubing annulus shall be filled with an inert fluid; and that the annulus shall be equipped with a pressure gauge or other attention-attracting leak-detection device in order to determine leakage in the casing, tubing or packer.

(2) 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


L. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member


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


S E A L

jr/

Application of Tom L. Ingram for
salt water disposal, Lea County,
New Mexico.

Case 279

July 24, 1974 - R.H.S.
FINES:

(1) Jurisdiction

(2) That the applicant, Tom L. Ingram, is the owner and operator of the State "O" well No. 2, located in Unit E of Section 2, Township 24 South, Range 33 East, NMAPN, Triple X - Delaware Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced water into the Delaware Sand, with injection into the perforated interval from approximately 5012 feet to 5033 feet.

in order to determine leakage in the casing, tubing, or packer.

(4) That the injection should be accomplished through 2 3/4 inch cement-coated tubing installed in a packer set at approximately 4500 feet; that the casing-tubing annulus should be filled with an inert fluid and that a pressure gauge or other attention attracting leak detection device should be attached to the annulus.

(5) That the approval of the subject application will prevent the drilling of unnecessary wells and otherwise FW and PCR.

07/27/2012

(1) That the applicant, Tom L. Ingram, is hereby authorized to utilize his State "O" Well No. 2, located in Unit E of Section 7, Township 24 South, Range 33 East, Twp. 24 S., Range 33 E., Sec. 7, Delaware 1001, Los Alamos County, New Mexico to dispose of produced salt water into the Delaware Salt, Injection to be accomplished through 2 3/8-in. or larger tubing installed in a packed seat at approximately 4500 feet, with injection into the perforated interval from approximately 5012 to 5032 feet;

PROVIDED HOWEVER, That the tubing shall be cement-coated; that the casing-tubing annulus shall be filled with an inert fluid; and that the annulus shall be equipped with a pressure gauge or other attention-attracting leak-detection device in order to determine leaks in the casing, tubing, or packers.

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

(3) Jurisdiction.

5279

Tom Ingram disposal well OK

Notify Hobb dist supervisor
if pump is set. Give note &
may press data

dispose produced Xw into
delaware fm. Triple X delaware
pool.

Dockets Nos. 22-74 and 24-74 are tentatively set for hearing on August 7 and August 21. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 24, 1974

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

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 4954: (Reopened)

In the matter of Case 4954 being reopened pursuant to the provisions of Order No. R-4555, which order established temporary special pool rules for the South Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, including a provision for 160-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing.

CASE 5277: Application of Pierce & Dehlinger for the amendment of Order No. R-4560, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an extension of time in which to commence the drilling of the third well covered by Order No. R-4560, to be drilled in the NE/4 of Section 24, Township 9 South, Range 33 East, Vada-Pennsylvanian Pool, Lea County, New Mexico. Applicant further seeks the establishment of an administrative procedure for additional extension of time in which to comply with the drilling schedule as set forth in the subject order. Applicant further seeks the amendment of Orders Nos. 4 and 5 of Order No. R-4560 to provide certain changes in the time schedules outlined therein for the furnishing of estimated well costs and the payment of proportionate shares of well costs by all parties.

CASE 5278: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry, Drinkard, and Tubb production in the wellbores of its A. H. Blinebry Federal Wells Nos. 23 and 26, located in Units C and B, respectively, of Section 29, and its C. H. Lockhart Federal Well No. 5, located in Unit C of Section 18, all in Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 5279: Application of Tom L. Ingram for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Delaware Sand in the perforated interval from 5012 feet to 5033 feet in his State "O" Well No. 2 located in Unit E of Section 7, Township 24 South, Range 33 East, Triple X-Delaware Pool, Lea County, New Mexico.

CASE 5280: Application of Coastal States Gas Producing Company for an unorthodox location and the amendment of Order No. R-4715, Lea County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to Order No. R-2746, approval for the unorthodox oil well location for its

(Case 5280 continued from Page 1)

McGuffin Well No. 3 to be drilled 660 feet from the North line and 1980 feet from the West line of Section 29, Township 9 South, Range 33 East, Flying "M" San Andres Pool, Lea County, New Mexico, the N/2 NW/4 of said Section 29 to be dedicated to the well. Applicant further seeks the amendment of Order No. R-4715 which dedicated the W/2 NW/4 of Section 29 to its McGuffin Well No. 2 located 1980 feet from the North line and 660 feet from the West line of said Section 29. Applicant proposes that the N/2 NW/4 of said Section 29 be dedicated jointly to said McGuffin Well No. 2 and to its McGuffin Well No. 1 located in Unit F of said Section 29.

CASE 5281: Application of Morris R. Antweil for an extension of time, Order No. R-4772, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a 90-day extension of the July 15 deadline for the commencement of drilling operations in the S/2 of Section 17, Township 22 South, Range 27 East, South Carlsbad Field, Eddy County, New Mexico, which lands were pooled to form a standard 320-acre gas spacing and proration unit by Order No. R-4772.

CASE 5282: Application of Union Texas Petroleum Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie-Mattix production in certain of its wells in the Langlie-Jal Unit Area, currently being waterflooded under authority of Commission Order No. R-4051.

CASE 4969: (Reopened)

In the matter of Case No. 4969 being reopened pursuant to the provisions of Order No. R-4557-A, which order continued the special depth bracket allowable for the Tocito Dome-Pennsylvanian "D" Pool, San Juan County, New Mexico, for an additional six months. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5283: Application of Belco Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in formations of Pennsylvanian age or older underlying the W/2 of Section 5, Township 22 South, Range 27 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location for said unit in Unit F of said Section 5. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5284: Application of Champlin Petroleum Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Nix-Yates Well No. 1 located in Unit G of Section 2, Township 22 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce gas from the Morrow formation through tubing and from the Wolfcamp formation through the casing-tubing annulus.

CASE 5152: (Reopened)

In the matter of Case No. 5152 being reopened pursuant to the provisions of Order No. R-4713, which order established a special depth bracket allowable for the Media-Entrada Oil Pool, Sandoval County, New Mexico. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5285: Application of Texas Pacific Oil Co. for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of its Phantom Draw Unit Well No. 1 to be located at a point 800 feet from the South line and 1000 feet from the West line of Section 20, Township 26 South, Range 31 East, Eddy County, New Mexico, the W/2 of said Section 20 to be dedicated to the well.

CASE 5286: Application of Texaco Inc. for a Special Allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for an injection response allowable increase for its Vacuum Grayburg-San Andres Unit Pressure Maintenance Project, Lea County, New Mexico. Applicant seeks an additional 2320 barrels of oil per day to be added incrementally to the current 4640 barrel per day allowable as injection response occurs. Applicant further seeks the establishment of an allowable of up to 240 barrels per day for lease line wells which have demonstrated a substantial response to water injection.

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE June 21, 1974

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____ X
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated _____
for the Tom L. Ingram State "O" #2-E 7-24-33
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Will require a hearing---J.D.R.

Yours very truly,

Joe D. Ramey

RECEIVED
JUN 24 1974
OIL CONSERVATION COMM.
Santa Fe

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE July 3, 1974

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD X _____
Proposed WFX _____
Proposed PMX _____

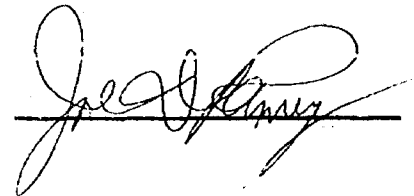
Gentlemen:

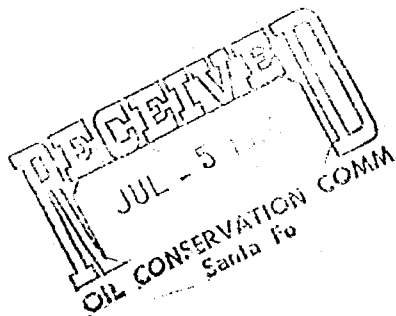
I have examined the application dated _____
for the Tom L. Ingram State "O" #2-E 7-24-33
Operator Lease and Well No. Unit, S-T-R

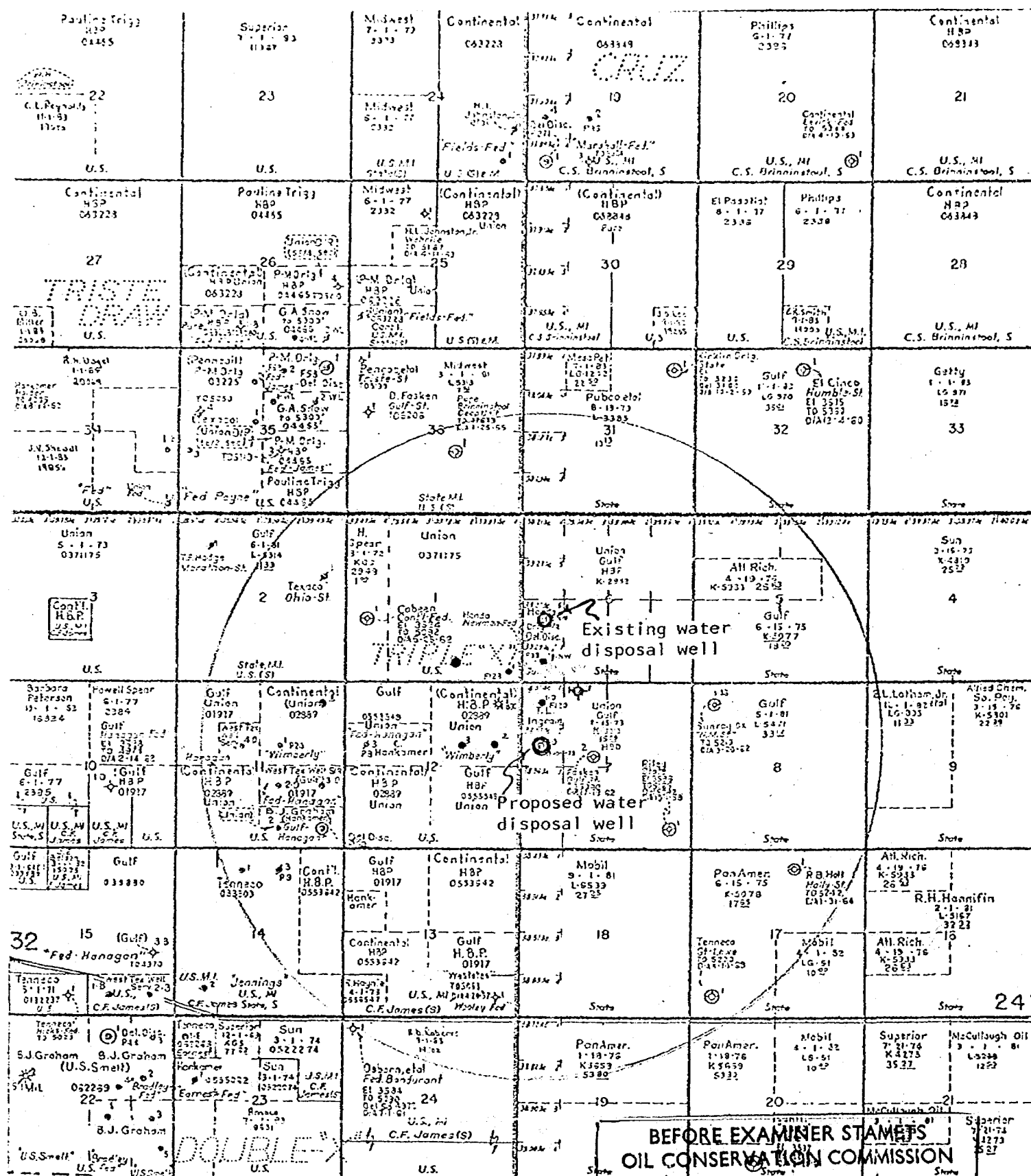
and my recommendations are as follows:

O.K.---J.D.R.

Yours very truly,







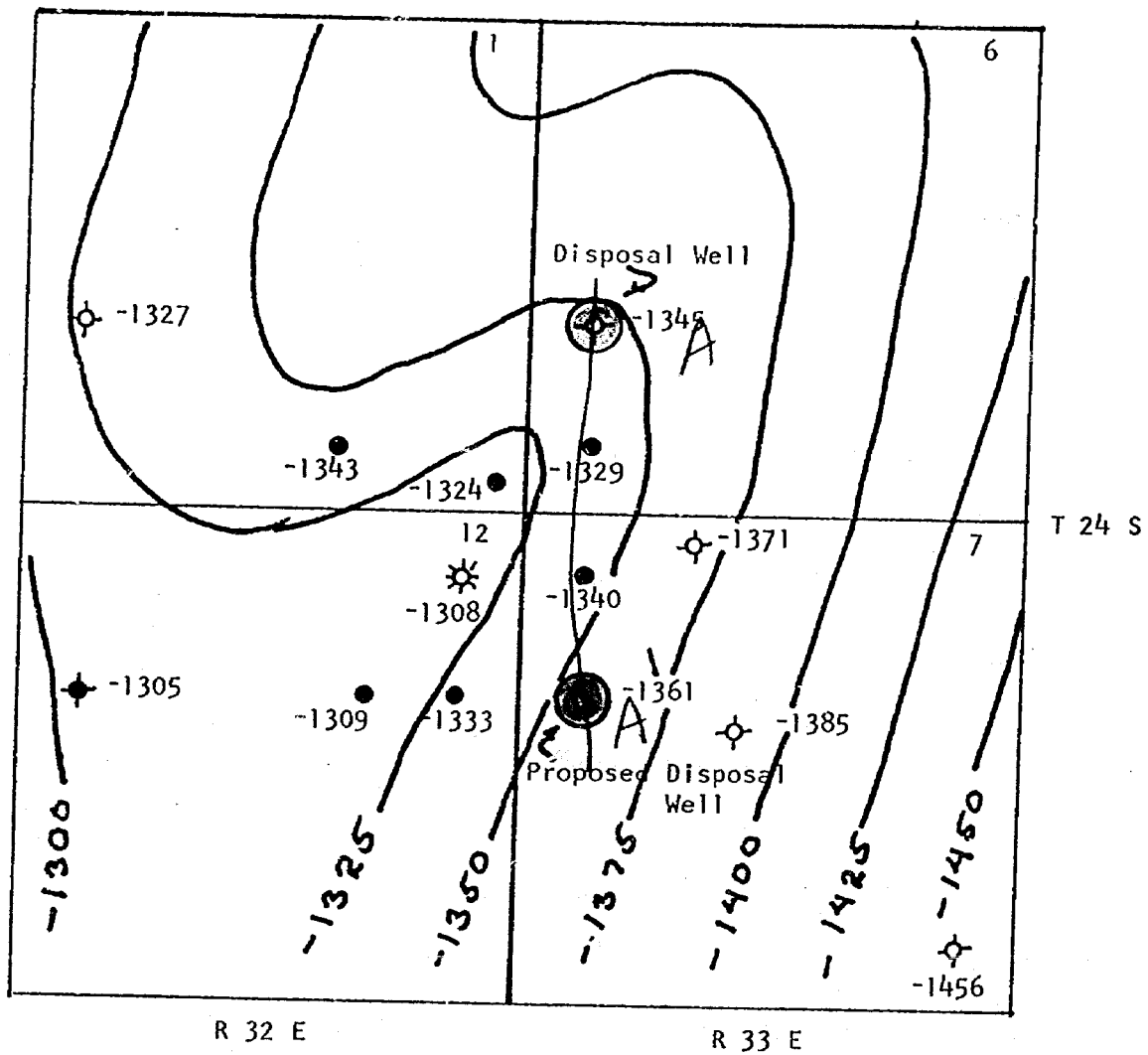
Plat showing location of proposed disposal well.

Producing formation is Delaware Sand in all productive wells within 2 mile radius of proposed disposal well.

Disposal is to be into the Delaware Sand at a depth of 5012 to 5033 feet.

Liquid will be salt water produced from the Tom L. Ingram #1 State "O" well located approximately 1320 feet to the north.

Volume will be from 50 to 200 bbls of salt water per day.



Structure Contour Map
Triple "X" Field
Lea County, New Mexico

Datum, Delaware Line
C.I. 25'
July 1974
Jack Ahlen

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	2
CASE NO.	5279
Presented by	Ungar
Hearing Date	7-24-74

PROPOSED TRIPLE "X" DISPOSAL WELL
TOM L. INGRAM #2 STATE "O"
SW/4 NW/4 Section 7 T24S-R33E
Lea County, New Mexico

2-3/8" Tubing
Protected by
cement

8-5/8" csg @ 421
Cement circulated

Inert fluid will be
placed between tubing
and casing. Pressure
on this fluid will be
monitored at the surface
by a gauge.

4-1/2" cag @ 5204
Cemented w/200 sx.
Top cement @ 3000'

2-3/8" Tubing set
at 4500' with Baker
Model R Packer

Top Delaware Sand
@ 4990'
Perf. @ 5012-5033'

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
EXHIBIT NO. <u>4</u>	
CASE NO. <u>5279</u>	
Signed by <u>Ingram</u>	
Hearing Date <u>7-24-74</u>	

TD 5206

HALLIBURTON DIVISION LABORATORY
HALLIBURTON COMPANY
LOVINGTON, NEW MEXICO

6-248-33E

5021-24
Swat Test
W72-773

LABORATORY WATER ANALYSIS

No.

To Honda Drilling CompanyDate 12-29-72Box 116Midland, Texas 79701ATTN: Mr. Nathan Outlaw

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by

Date Rec. 12-29-72Well No. Gulf NW State #1 DepthFormation Delaware sandCounty LeaField W. J. C.

Source

Resistivity 0.049 @ 70° F.Specific Gravity 1.168pH 7.1Calcium (Ca) 22,800

*MPL

Magnesium (Mg) 2,640Chlorides (Cl) 152,000Sulfates (SO₄) 1,800Bicarbonates (HCO₃) 195Soluble Iron (Fe) 40API Gr. @ 60° F. - 39.9

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY

By W. L. Brewer

CHEMIST

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
CASE NO. 5279
Signed by C. Ingram
Hearing Date 7-24-74

446

WATER ANALYSIS

52c 7 T 245 R 33E

Date Sampled 6.26.73

Date Received 6-26-73

Submitted by

Worked by

Other Description

Density 1.165 @ 89°F. pH 7.0

Iron FAIR TRACE Hydrogen Sulfide None

Sodium and Potassium _____ ppm Bicarbonate _____ ppm

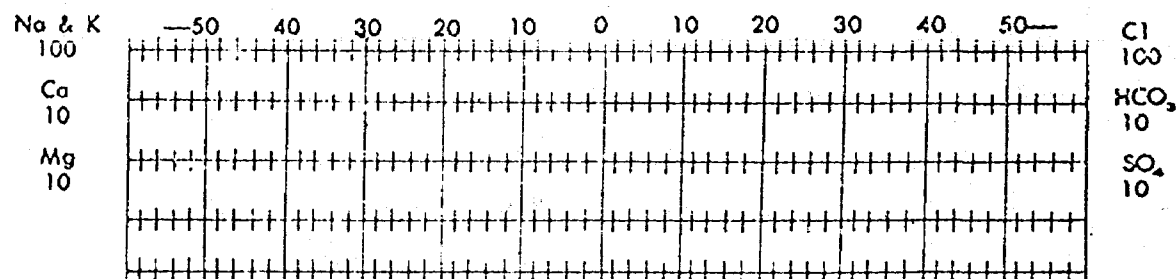
Calcium _____ ppm Sulfate _____ ppm

Magnesium _____ ppm Phosphate _____ ppm

Chloride 140,000 ppm as Sodium Chloride _____ ppm

Remarks:

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



Por _____

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
app- EXHIBIT NO. 2
CASE NO. 5279
Settled by W. J. Green
Hearing Date 7-24-74

7

THE WESTERN COMPANY
Service Laboratory

SAMPLE NO. _____

Sec 7 T24SR33E

WATER ANALYSIS

Operator TOM INGRAM
Well STATE #2
Field Triple X
Formation Delaware Sand
Depth _____
County _____

Date Sampled 6-26-73
Date Received 6-26-73
Submitted by _____
Worked by _____
Other Description _____

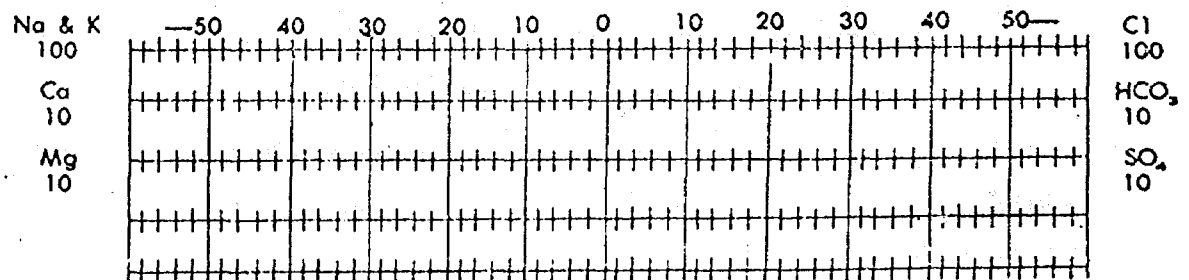
CHEMICAL DETERMINATIONS

Density 1.165 @ pH 4.0
Iron GOOD TRACE Hydrogen Sulfide NONE
Sodium and Potassium _____ ppm Bicarbonate _____ ppm
Calcium _____ ppm Sulfate _____ ppm
Magnesium _____ ppm Phosphate _____ ppm
Chloride 142,000 ppm as Sodium Chloride _____ ppm

35.5
4000
1420000

Remarks:

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



Per _____

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. 7
CASE NO. 5279
Analyzed by Ingram
Hearing Date 7-24-74

198

TOM L. INGRAM
100 SOUTH KENTUCKY AVENUE
ROSWELL, NEW MEXICO 88201

June 20, 1974

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Joe D. Ramey

Gentlemen:

Enclosed please find original and two copies of Form C-103,
Application to Dispose of Salt Water by Injection into a
Porous Formation in connection with the Tom L. Ingram #2
State O Well, Section 7 - T24S, R33E, Lea County, New Mexico.

Very truly yours,

TLI

Tom L. Ingram

/jh
Encls.

cc: Continental Oil Company
Box 460
Hobbs, New Mexico 88240

Return Rec. Reg.

Hondo Drilling Company
Box 116

Return Rec. Reg.

SENDER: Be sure to follow instructions on other side

PLEASE FURNISH SERVICE(S) INDICATED BY CHECKED BLOCK(S)
(Additional charges required for these services)

☒ Show address
where delivered

☐ Deliver ONLY
to addressee

RECEIPT

Received the numbered article described below

REGISTERED NO.

SIGNATURE OR NAME OF ADDRESSEE (Must always be filled in)

CERTIFIED NO.

461200

INSURED NO.

DATE DELIVERED

6-21-74

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

Continental Oil Co.
by J. D. Ramey

SHOW WHERE DELIVERED (Only if requested, and include ZIP Code)

PLEASE FURNISH SERVICE(S) INDICATED BY CHECKED BLOCK(S)
(Additional charges required for these services)

☐ Show address
where delivered

☐ Deliver ONLY
to addressee

RECEIPT

Received the numbered article described below

REGISTERED NO.

SIGNATURE OR NAME OF ADDRESSEE (Must always be filled in)

CERTIFIED NO.

461201

INSURED NO.

DATE DELIVERED

6-21-74

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

Hondo Drilling Co.
by J. D. Ramey

SHOW WHERE DELIVERED (Only if requested, and include ZIP Code)

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

ch EXHIBIT NO. 8
CASE NO. 5279

Signed by *Ch*
Hearing Date 7-24-74

TOM L. INGRAM

100 SOUTH KENTUCKY AVENUE
ROSWELL, NEW MEXICO 88201

June 20, 1974

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Joe D. Ramey

Gentlemen:

Enclosed please find original and two copies of Form C-108,
Application to Dispose of Salt Water by Injection into a
Porous Formation in connection with the Tom L. Ingram #2
State O Well, Section 7 - T24S, R33E, Lea County, New Mexico.

Very truly yours,

Tom L. Ingram
Tom L. Ingram

/jh
Encls.

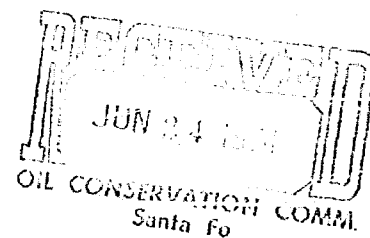
cc: Continental Oil Company
Box 460
Hobbs, New Mexico 88240

Hondo Drilling Company
Box 116
Midland, Texas 79701

Gulf Oil Corporation
Attention: R. E. Griffith
P. O. Box 1150
Midland, Texas 79701

S. E. Reynolds - N. M. State Engineer
State Capitol
Santa Fe, New Mexico 87501

Carl A. Johnson
Lovington, New Mexico 88260



NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Tom L. Ingram		ADDRESS P. O. Box 1757-Roswell, New Mexico 88201	
LEASE NAME State 0	WELL NO. 2	FIELD Triple X - Delaware	COUNTY Lea
LOCATION UNIT LETTER E ; WELL IS LOCATED 1980 FEET FROM THE North LINE AND 660 FEET FROM THE West LINE, SECTION 7 TOWNSHIP 24 S RANGE 33E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8	421	400	Surface	Circulation
INTERMEDIATE					
LONG STRING	4-1/2	5204	200	3000	Calculation
TUBING	2-3/8		NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model R 4500'		
NAME OF PROPOSED INJECTION FORMATION Delaware Sand			TOP OF FORMATION 5012		BOTTOM OF FORMATION 5033
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations		PROPOSED INTERVAL(S) OF INJECTION 5012-33	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? As producing oil well		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 100'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 6500'	
ANTICIPATED DAILY INJECTION VOLUME (BBL/D) 50	MINIMUM 200	MAXIMUM Open	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI)
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - Yes			NATURAL WATER IN DISPOSAL ZONE Yes		
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) State Land - Carl A. Johnson Lovington, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
Continental Oil Company - Box 460 - Hobbs, New Mexico 88240					
Hondo Drilling Company - Box 116 - Midland, Texas 79701					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
		Yes		Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG	
		Yes		Yes	
				THE NEW MEXICO STATE ENGINEER	
				Yes	
				DIAGRAMMATIC SKETCH OF WELL	
				Yes	

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Tom L. Ingram
(Signature)

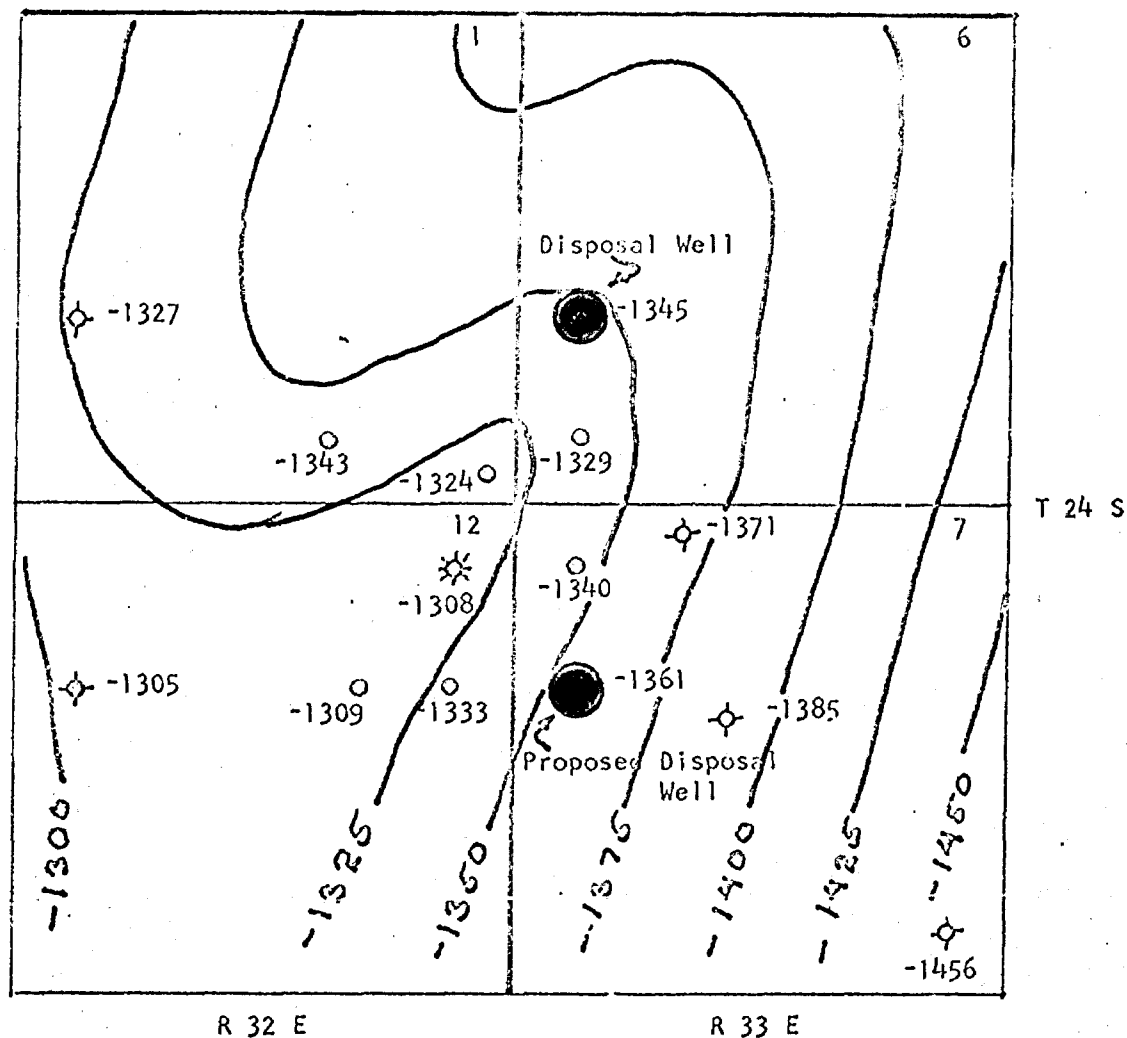
Operator

(Title)

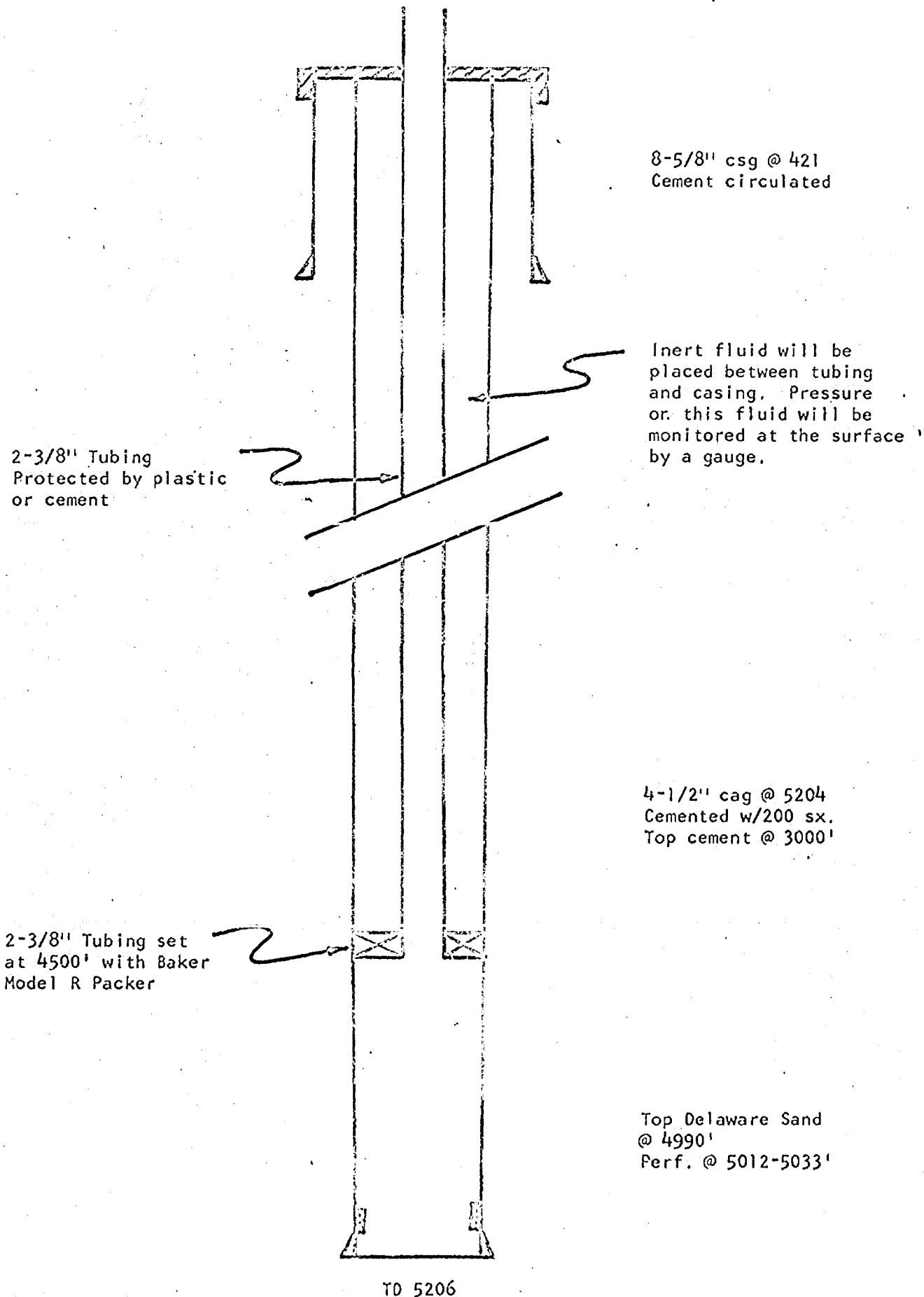
6/12/74

(Date)

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.



PROPOSED TRIPLE "X" DISPOSAL WELL
TOM L. INGRAM #2 STATE "O"
SW/4 NW/4 Section 7 T24S-R33E
Lea County, New Mexico



HALLIBURTON DIVISION LABORATORY
HALLIBURTON COMPANY
LOVINGTON, NEW MEXICO

6-248-33E

5031-24
Swal Test

LABORATORY WATER ANALYSIS

No. W72-773

To Hondo Drilling CompanyDate 12-29-72Box 116Midland, Texas 79701ATTN: Mr. Nathan Outlaw

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. 12-29-72Well No. Gulf NW State #1 Depth _____ Formation Delaware sandCounty Lea Field W. Va. C. Source _____

Resistivity	0.049 @ 70° F.	
Specific Gravity	1.168	
pH	7.1	
Calcium (Ca)	22,800	*MPL
Magnesium (Mg)	2,640	
Chlorides (Cl)	152,000	
Sulfates (SO ₄)	1,800	
Bicarbonates (HCO ₃)	195	
Soluble Iron (Fe)	40	
.....		
.....		
.....		
API Gr. @ 60° F. -	39.9	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer
cc: _____

HALLIBURTON COMPANY

By W. L. Brewer
CHEMIST

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

THE WESTERN COMPANY
Service Laboratory

SAMPLE NO. _____

WATER ANALYSIS

Sec 7 T 24S R 33E

Operator TOM INGRAM
Well STATE 0#1
Field Triple X
Formation Delaware Sand
Depth _____
County _____

Date Sampled 6-26-73
Date Received 6-26-73
Submitted by _____
Worked by _____
Other Description _____

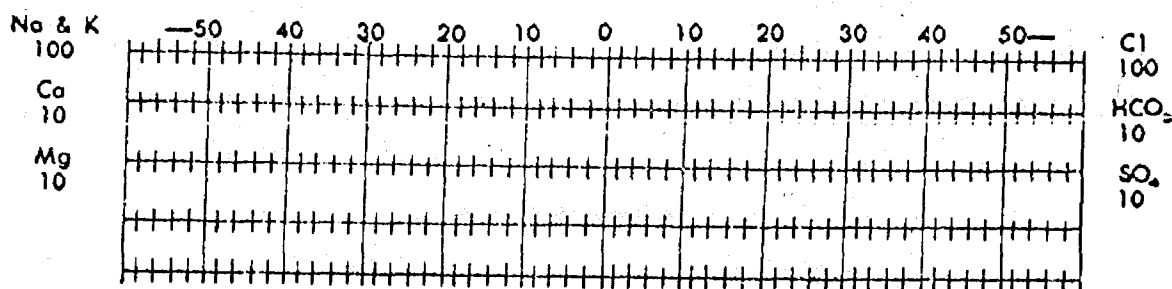
CHEMICAL DETERMINATIONS

Density 1.165 @ 89°F. pH 4.0
Iron FAIR TRACE Hydrogen Sulfide NONE
Sodium and Potassium _____ ppm Bicarbonate _____ ppm
Calcium _____ ppm Sulfate _____ ppm
Magnesium _____ ppm Phosphate _____ ppm
Chloride 140,000 ppm as Sodium Chloride _____ ppm

35
4000
140000

Remarks:

For 2.5% type plot (1.0) (1.0)



Per _____

THE WESTERN COMPANY
Service Laboratory

SAMPLE NO. _____

Sec 7 T24S R33E

WATER ANALYSIS

Operator TOM INGRAM
Well STATE 0#2
Field Triple X
Formation Delaware Sand
Depth _____
County _____

Date Sampled 6-26-73
Date Received 6-26-73
Submitted by _____
Worked by _____
Other Description _____

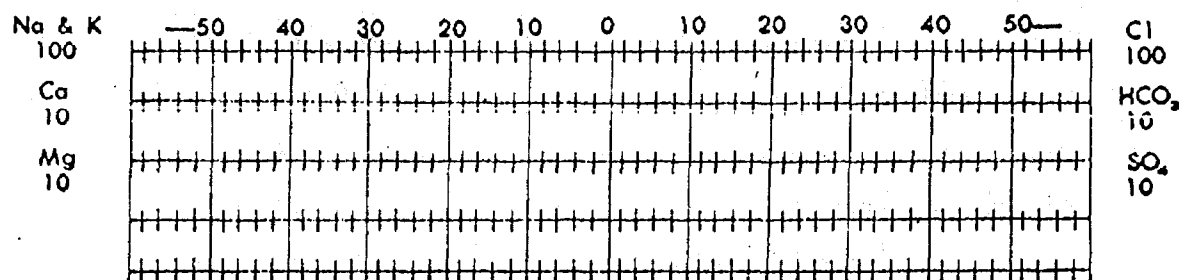
CHEMICAL DETERMINATIONS

Density 1.165 @ pH 4.0
Iron GOOD TRACE Hydrogen Sulfide NONE
Sodium and Potassium _____ ppm Bicarbonate _____ ppm
Calcium _____ ppm Sulfate _____ ppm
Magnesium _____ ppm Phosphate _____ ppm
Chloride 142,000 ppm as Sodium Chloride _____ ppm

35.5
4000
1420000

Remarks:

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



Per _____

COUNTY FIELD or LOCATION WELL

COMPANY Town & Langston

WELL State No. 2

FIELD Triple X

COUNTY La STATE LA

Location: 1980' FNL
660' RWL

Sec. 7 Twp. 24S Rge. 3E

Other Services: DLL

Permanent Datum: GL Elev: K.8.3603

Log Measured From K.8 Ft. Above Perm. Datum

Drilling Measured From K.8 Elev: D.F.
GL. 3593

Date 6-15-73

Run No. 1

Depth-Driller 5200

Depth-Logger 5200

3in. Log Interval 5197

Top Log Interval 0

Casing-Driller 85/8 @ 420 @ @

Casing-Logger 420 @ @

Bit Size 7 7/8

Type Fluid in Hole 5.11

Fluid Level

Dens. 10.3 32 ml ml ml

pH 12 ml ml ml

Source of Sample Circ.

Rm @ Meas. Temp. 047 @ 75 °F @ °F @ °F

Rmf @ Meas. Temp. 041 @ 76 °F @ °F @ °F

Rmc @ Meas. Temp. - @ - °F @ °F @ °F

Source: Rmf Rmc M - @ @

Rm @ BHT 035 @ 104 °F @ °F @ °F

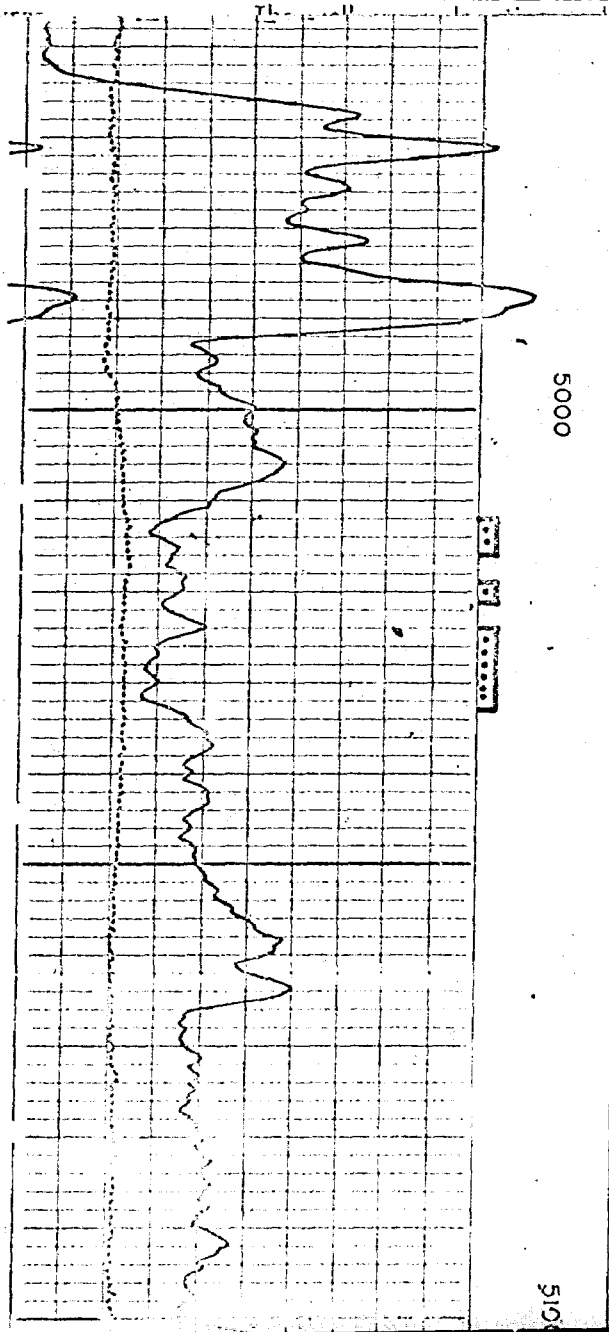
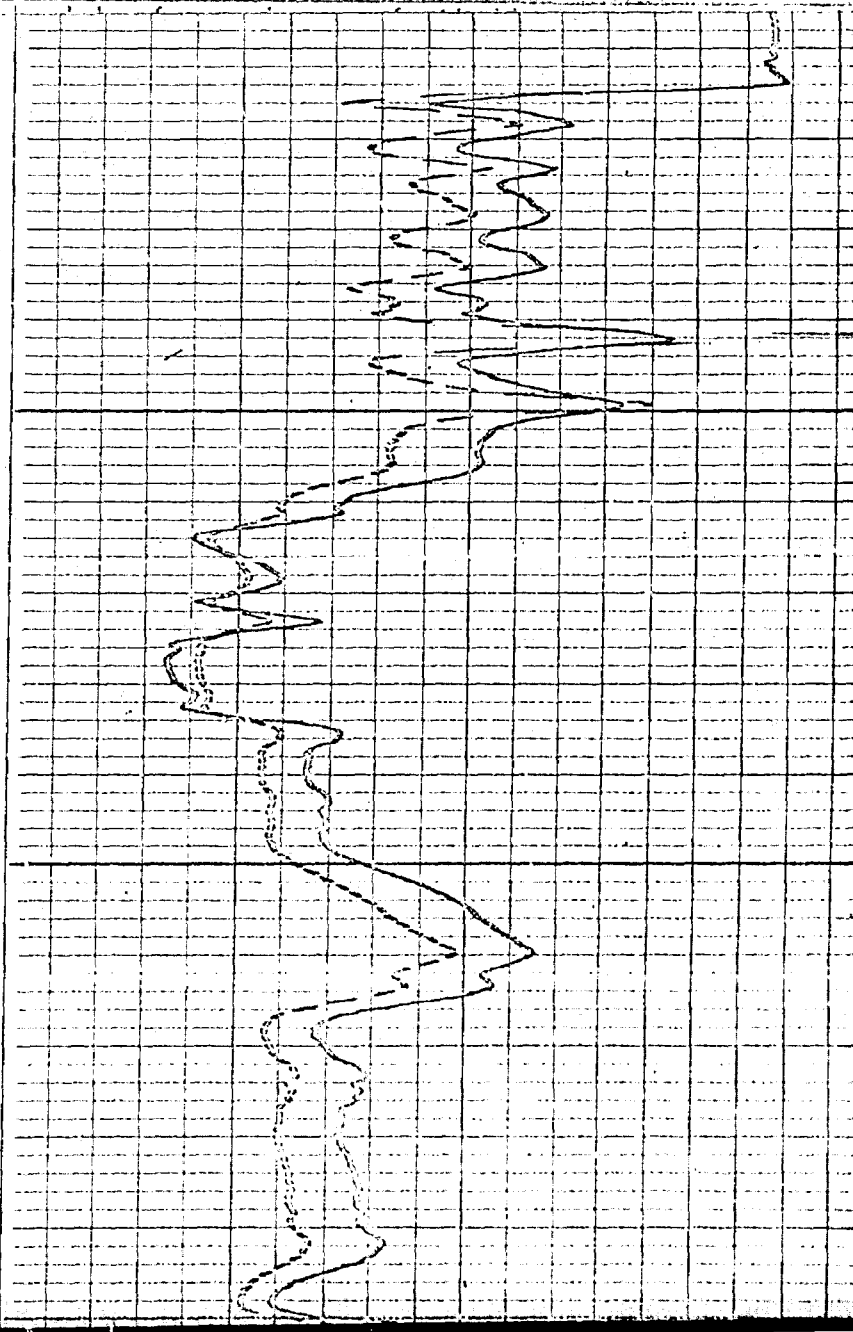
Time Since Circ. 4 hrs. @ @

Max. Rec. Temp. 104 °F °F °F

Equip. Location 7627 H-663 °F °F °F

Recorded by GLL/SM

Checked By 2/2/74



CLARENCE E. HINKLE
W. E. BONDURANT, JR.
LEWIS C. COX, JR.
PAUL W. EATON, JR.
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.
STUART D. SHANOR
C. D. MARTIN
PAUL J. KELLY, JR.

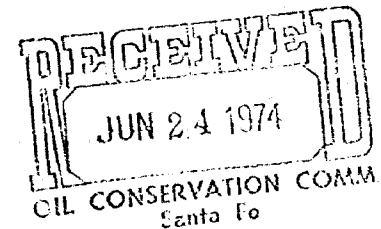
LAW OFFICES
HINKLE, BONDURANT, COX & EATON
600 HINKLE BUILDING
POST OFFICE BOX 10
ROSWELL, NEW MEXICO 86201

TELEPHONE (505) 622-6510

Case 5-279

MIDLAND, TEXAS OFFICE
521 MIDLAND TOWER
(915) 683-4691

June 21, 1974



Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

We enclose herewith in triplicate application of Tom L. Ingram for conversion of the State O No. 2 well in the Triple - X Delaware Pool, Lea County for water disposal.

We would appreciate it if you would place this matter on the examiner's docket for July 24.

Yours very truly,

HINKLE, BONDURANT, COX & EATON

By *Clarence E. Hinkle*

CEH:cs
Enc.

DOCKET MAILED
Date 7-12-74

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

APPLICATION OF TOM L. INGRAM FOR
APPROVAL OF THE CONVERSION OF THE
STATE O NO. 2 WELL IN THE TRIPLE-
X DELAWARE POOL, LEA COUNTY, NEW
MEXICO LOCATED IN UNIT E 1980 FEET
FROM THE NORTH AND 660 FEET FROM
THE WEST LINE OF SECTION 7, TOWNSHIP
24 SOUTH, RANGE 33 EAST FOR WATER
DISPOSAL IN THE DELAWARE SAND.
APPLICANT PROPOSES TO DISPOSE OF
PRODUCED WATER FROM THE TRIPLE X-
DELAWARE POOL THROUGH PERFORATIONS
FROM 5,012 TO 5,033 FEET.

Case 5-279

Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

Comes Tom L. Ingram, acting by and through the undersigned attorneys, and hereby makes application for approval of the conversion of the State O No. 2 well in the Triple - X Delaware Pool, Lea County, New Mexico located in Unit E 1980 feet from the north and 660 feet from the west line of Section 7, Township 24 South, Range 33 east for water disposal in the Delaware Sand. Applicant proposes to dispose of produced water from the Triple X- Delaware Pool through perforations from 5,012 to 5,033 feet, and in support thereof respectfully shows:

1. There is attached hereto as Exhibit "A" a plat showing the location of the proposed injection well and the location of all other wells within a radius of 2 miles from said well and the formations from which said wells are producing or have produced. The plat also indicates the owners of the leases within said two mile radius.

2. There is filed herewith a Sonic - Gamma Ray log of the proposed injection well which is located 1980 feet from the north line and 660 feet from the west line of Section 7, Township 24 South, Range 33 East.

3. There is attached hereto as Exhibit "B" a diagrammatic sketch of the proposed injection well showing all casing strings

DOCKET MAILED

Date _____

including diameters and setting depths, quantities used and tops of cement, perforated interval, tubing strings including diameters and setting depths and the type and location of packer.

4. Applicant is the owner and operator of a producing well from the Triple X - Delaware Pool located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 7 and it is proposed to dispose of water which is being produced from said well into the proposed injection well. It is contemplated that there will be a minimum of 50 barrels and a maximum of 200 barrels of water disposed of daily.

Produced water from the Triple X Pool is being disposed of at the present time in a well located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 6, which is shown on Exhibit "A" attached hereto.

5. Applicant believes that the conversion of the State 0 No. 2 well to a water disposal well will be in the interest of conservation, the prevention of waste and will tend to protect correlative rights.

6. Applicant requests that this matter be included on the examiner's docket for July 24, 1974.

Respectfully submitted,

TOM L. INGRAM

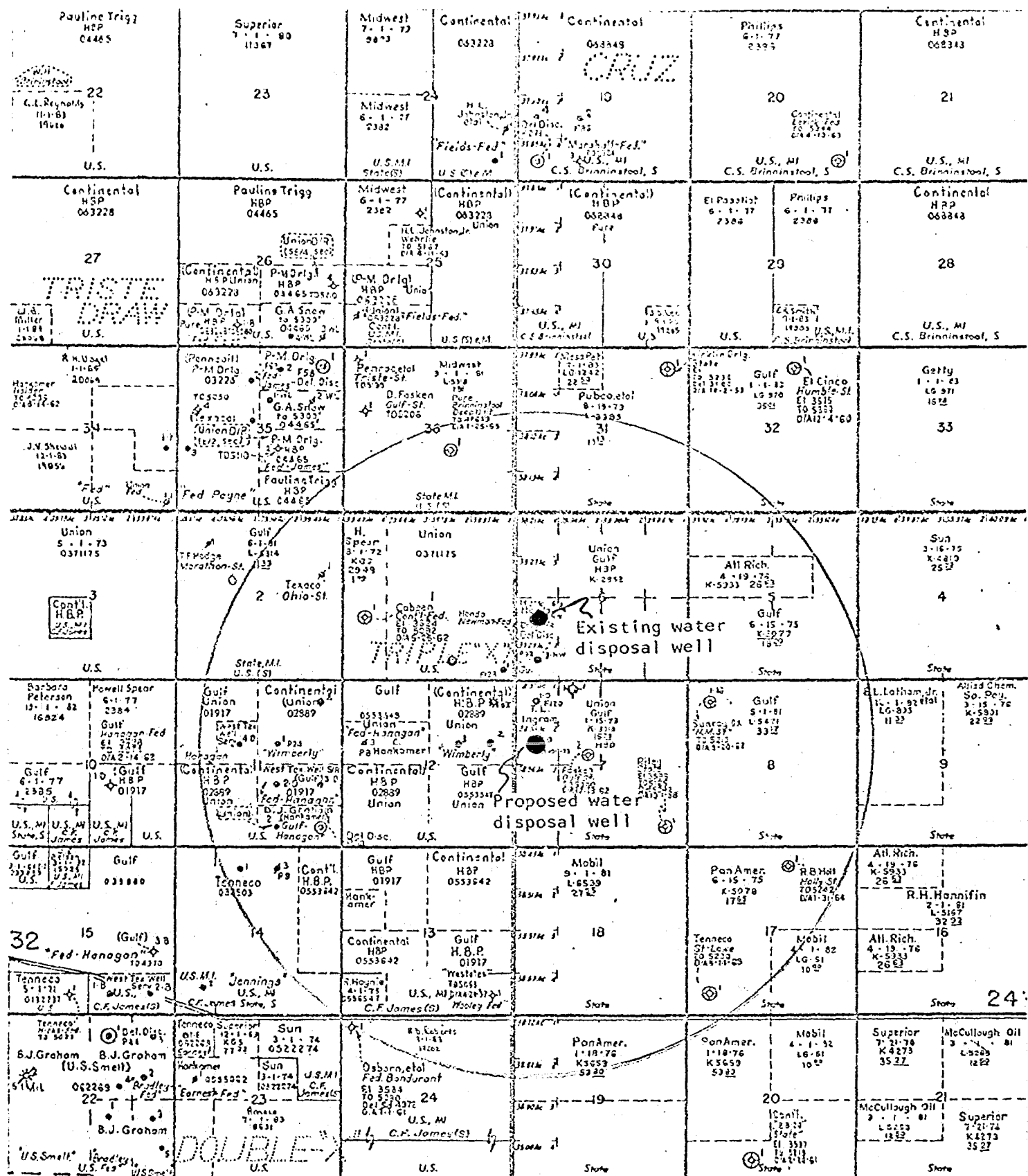
By


HINKLE, BONDURANT, COX & EATON

Attorneys for Applicant

P.O. Box 10

Roswell, New Mexico 88201



Plat showing location of proposed disposal well.

Producing formation is Delaware Sand in all productive wells within 2 mile radius of proposed disposal well.

Disposal is to be into the Delaware Sand at a depth of 5012 to 5033 feet.

Liquid will be salt water produced from the Tom L. Ingram #1 State "0" well located approximately 1320 feet to the north.

Volume will be from 50 to 200 bbls of salt water per day.

PROPOSED TRIPLE "X" DISPOSAL WELL
 TOM L. INGRAM #2 STATE "O"
 SW/4 NW/4 Section 7 T24S-R33E
 Lea County, New Mexico

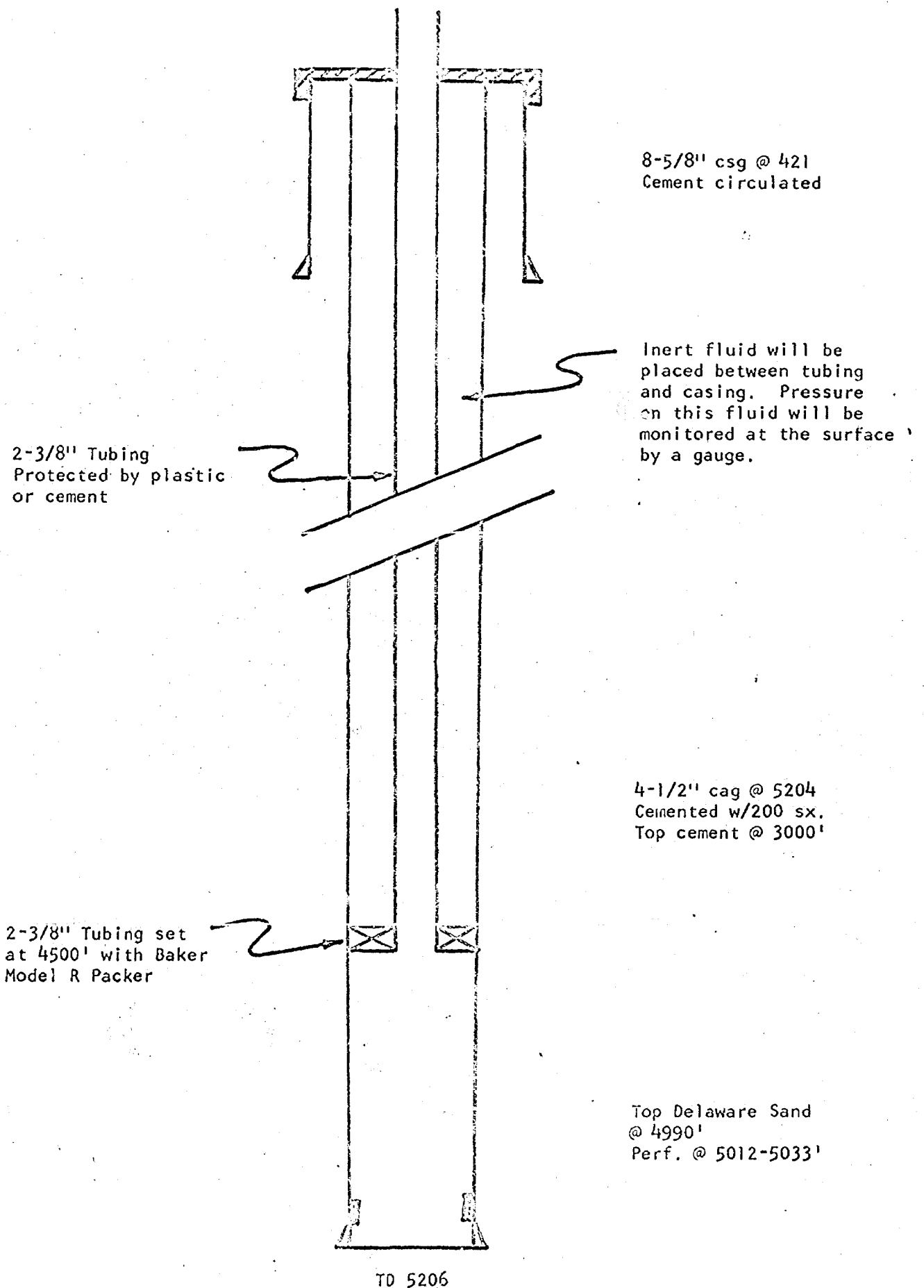


EXHIBIT "B"

Case 5-279

DRAFT

dr/

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:

APPLICATION OF TOM L. INGRAM FOR
SALT WATER DISPOSAL, LEA COUNTY,
NEW MEXICO.

CASE NO. 5279

Order No. R-4833

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 24, 1974,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this day of August, 1974, 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, Tom L. Ingram, is the owner
and operator of the State "O" Well No. 2, located in Unit E
of Section 7, Township 24 South, Range 33 East, NMPM, Triple X-
Delaware Pool, Lea County, New Mexico.

-2-
Case No. 5279
Order No. R-

1 (3) That the applicant proposes to utilize said well to
2 dispose of produced water into the Delaware Sand, with injection
3 into the perforated interval from approximately 5012 feet to
4 5033 feet.

5 (4) That the injection should be accomplished through
6 2 3/8-inch cement-coated tubing installed in a packer set at
7 approximately 4500 feet; that the casing-tubing annulus should
8 be filled with an inert fluid and that a pressure gauge or other
9 attention-attracting leak detection device should be attached to
10 the annulus in order to determine leakage in the casing, tubing,
11 or packer.

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

15 IT IS THEREFORE ORDERED:

16 (1) That the applicant, Tom L. Ingram is hereby authorized
17 to utilize his State "O" Well No. 2, located in Unit E of Sec-
18 tion 7, Township 24 South, Range 33 East, Triple X-Delaware Pool,
19 Lea County, New Mexico, to dispose of produced salt water into
20 the Delaware Sand, injection to be accomplished through 2 3/8-inch
21 or larger tubing installed in a packer set at approximately 4500
22 feet, with injection into the perforated interval from approxi-
23 mately 5012 to 5033 feet;

24 PROVIDED HOWEVER, that the tubing shall be cement-coated;
25 that the casing-tubing annulus shall be filled with an inert
26 fluid; and that the annulus shall be equipped with a pressure
27 gauge or other attention-attracting leak-detection device in
28 order to determine leakage in the casing, tubing or packer.

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

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