

CASE 3959: Application of TEXAS  
PACIFIC FOR SALT WATER DISPOSAL,  
LEA COUNTY, NEW MEXICO.

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Case Number

3959

Application  
Transcripts.

Small Exhibits

ETC.

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

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



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
November 20, 1968  
EXAMINER HEARING

IN THE MATTER OF:

Application of Texas Pacific  
Oil Company for salt water  
disposal, Lea County, New  
Mexico.

Case Number 3959

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: The hearing will come to order. Case Number 3959.

MR. HATCH: Case 3959. Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico.

MR. RUSSELL: John F. Russell, appearing on behalf of the applicant, and I have one witness.

MR. UTZ: Let the record show that other appearances were requested, and there were none.

(Whereupon, Applicant's Exhibits 1 through 4, inclusive, were marked for identification.)

(Witness sworn.)

RON FREELS

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

DIRECT EXAMINATION

BY MR. RUSSELL:

Q Please state your name, address, name of your employer, and the capacity in which you are employed.

A Ron Freels. I work for Texas Pacific Oil Company in Dallas. My position is assistant to the vice president of the production department.

Q And you have previously qualified to testify before the Commission, and its examiners?

A I have.

Q Are you familiar with the application of Texas Pacific Oil Company in Case Number 3959?

A Yes, I am.

Q What do you seek by that application?

A Texas Pacific Oil Company seeks authority to dispose of produced salt water into the Seven Rivers Formation in the perforated interval from 2,960 feet to 3,068 feet in its L. Gutman Well No. 2, located in Unit J of Section 29, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

Q Mr. Freels, have you prepared some exhibits in connection with this application?

A Yes, I have. This is the one that is marked for the Examiner, and there are two additional copies.

Q Now, would you start with your first one, and identify each by number, and explain what each exhibit represents?

A Exhibit Number 1 is a plat of the area showing all of the producing wells and the horizons from which they produce; and it also shows the proposed injection well which has a yellow triangle around it. The well is the Texas Pacific L. Gutman No. 1. Its location is 2,310 feet from the south line, and 1,650 feet from the east line of Section 29, Township 25 South,

Range 37 East, Langlie-Mattix Pool.

This well is proposed as the disposal well for the other producing wells on the lease, the Gutman No. 1, and we propose to dispose of approximately 1,400 barrels of water per month into this well.

Exhibit Number 2 is a schematic of proposed salt water disposal well. That exhibit shows that an 8 and five-eighths inch casing was submitted at 280 feet with 150 sacks of cement, and cement circulated; and that 5 and one half inch casing is set at 3,295 feet with 400 sacks of cement, with calculated top of the cement at 987 feet.

This shows also that there is a bridge plug at 3,115 feet; that the perforations through which we propose to inject are shown from 2,960 to 3,068 feet, and it also shows a string of tubing set at 2,954 feet.

This is a well on a lease, which is another one of our real problem ones. We have relatively limited amount of income to be derived from this lease. We do have a string of tubing available on the lease, and we do propose to run the tubing in the well. However, provided the Commission can grant us the additional permission, we would like to run that tubing without a packer on the bottom. This will save us somewhere in the order of \$200 to \$500, depending on what we have to run in

the hole. And we propose to inject inhibited water down the tubing, and we would float oil on top in the annulus to protect the tubing casing annulus from corrosion.

Q What is the footing location of that?

A This well is located 2,310 feet from the south line, 1,650 feet from the east line of Section 29, Township 25 South, Range 37 East.

Exhibit 3 is a portion of the log of the injection well, showing the top of the Seven Rivers at 2,770 feet, and it shows the perforated interval marked in blue, and it shows the Queen at 3,123 feet. It does not show the bridge plug; it is shown on the schematic, which is above the Queen interval.

Exhibit Number 4 is a water analysis of the water to be injected into this well, and this analysis shows that the water contains approximately 4,700 parts per million chloride. This is not a significantly corrosive water, so we do not anticipate any problems having to treat the water.

Instead of using tubing -- well, if the Commission likes, we will install a coupon at the surface to monitor the effecting of our treating program, and we will be pleased to submit quarterly reports.

Q You are only going to dispose of water from that one well you indicated, is that correct?

A That's right. And that is water going back into the same zones. We do not indicate any compatability problems.

Q Do you know the average monthly production of that well at this time?

A I think I do. This well is currently producing 115 barrels of oil, and approximately 1,400 barrels of water per month. You can see it is a very marginal prospect.

Q Were Exhibits 1 through 4 prepared by you or under your supervision and direction?

A Yes, they are. I would like to make one additional comment. The injection well, the Gutman 1, is a TA well, has been TA'd since 1963.

MR. RUSSELL: Mr. Examiner, at this time I would like to offer into evidence Applicant's Exhibits 1 through 4, inclusive.

MR. UTZ: Without objection, Exhibits 1 through 4 will be admitted into the evidence in this case.

(Whereupon, Applicant's Exhibits Numbers 1 through 4, inclusive, were admitted in evidence.)

MR. RUSSELL: I have no further questions.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Freels, how many wells was it you were going to



inject water from?

A Just one well, the Gutman No. 1, which is on their lease. It is primarily a gas well, making 115 barrels of oil.

Q That is the 1-B?

A Yes.

Q The other well is the Langlie-Mattix well?

A It is a Langlie-Mattix, and this is a Jalmat Yates River zone gas well.

Q Do you have a Crosby Devonian well on that lease?

A No, that is a Sinclair well, to the south. Wait a minute. I don't see a Crosby Devonian well on mine.

Q I have a green circle on a well just south of your No. 1 well.

A The Sinclair No. 1-A?

Q No, it is on that north half of the southeast quarter.

A Oh, you are looking up on the -- I believe you are looking up on the Coll Lease, are you not?

Q I am looking at the Gutman Lease.

A May I come down there? Mine has that marked out. I don't believe that other well is producing. This shows that it is a Langlie-Mattix well, and the other is the Crosby Devonian gas. That is not our well, that is a Sinclair well, the Crosby Devonian. We are not going to take that water. That is not our

well.

Q They have the deep rights?

A Apparently they do. This situation exists in quite a few of our leases in this area. Our rights are primarily the shallow rights.

Q So it will be about 1,400 barrels of water?

A Per month, yes. And we anticipate this not lasting over a year.

Q And you don't want a plastic-coated tubing in that, either?

A No. Again, Mr. Examiner, if you feel that it would be very definitely worthwhile, we would run a packer in the well. It is not that much, it is just that the well is pretty marginal in character, and we are trying to make the most we can from it. We felt with the limited life and the limited amount of water left, there was very little danger of any problem there.

Q This well has been TA, so it doesn't have a tubing in it?

A It does not now, but it does have a string of tubing that we can bring to the well. I hesitated to ask to go down the casing on this one, because there was only one string of casing that wasn't submitted back, and we felt we would be ill

advised to run a string of tubing in the well.

MR. UTZ: Any other questions?

We will take the case under advisement.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
RON FREELS	
Direct Examination by Mr. Russell	2
Cross Examination by Mr. Utz	6

<u>EXHIBITS</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
Applicant's Exhibits Numbers 1 through 4	2	6

STATE OF NEW MEXICO     )  
                                   ) ss  
 COUNTY OF BERNALILLO    )

I, SAM 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.

Sam Mortelette  
 COURT REPORTER

I do hereby certify that the foregoing is a complete record of the proceedings in the hearing of Case No. 3589, heard by me on 11-20-66.

Thomas D. [Signature] Chairman  
 New Mexico Oil Conservation Commission

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

State of New Mexico  
Oil Conservation Commission



LAND COMMISSIONER  
GUYTON B. HAYS  
MEMBER

P. O. BOX 2089  
SANTA FE

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

November 27, 1968

Mr. John Russell  
Attorney at Law  
Post Office Drawer 640  
Roswell, New Mexico 88201

3959  
3961  
3965  
Re: Case No. 3960  
Order No. R-3604, R-3605,  
Applicant: R-3606 & R-3608  
Texas Pacific Oil Co.

Dear Sir:

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

Very truly yours,

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

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC       

Aztec OCC       

Other State Engineer Office

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. 3959  
Order No. R-3604

APPLICATION OF TEXAS PACIFIC OIL  
COMPANY FOR SALT WATER DISPOSAL,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 8:30 a.m. on November 20, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 27th day of November, 1968, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Texas Pacific Oil Company, is the owner and operator of the L. Gutman Well No. 2, located in Unit J of Section 29, Township 25 South, Range 37 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the Seven Rivers formation, with injection into the perforated interval from approximately 2960 feet to 3068 feet.

(4) That the injection should be accomplished through 2 3/8-inch tubing set at approximately 2954 feet; that the casing-tubing annulus should be filled with a sweet oil; and that a pressure gauge should be attached to the annulus at the surface in order to determine leakage in the casing or tubing.

-2-

CASE No. 3959

Order No. R-3604

(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, Texas Pacific Oil Company, is hereby authorized to utilize its L. Gutman Well No. 2, located in Unit J of Section 29, Township 25 South, Range 37 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico, to dispose of produced salt water into the Seven Rivers formation, injection to be accomplished through 2 3/8-inch tubing set at approximately 2954 feet, with injection into the perforated interval from approximately 2960 feet to 3068 feet;

PROVIDED HOWEVER, that the casing-tubing annulus shall be filled with a sweet oil and that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the casing or tubing;

PROVIDED FURTHER, that any injection of produced salt water after January 1, 1970, must be accomplished through plastic-lined tubing.

(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 CONSERVATION COMMISSION

  
DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

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

esr/



3959

11-20-68

11-22-68

Grant D & P's request for SWD  
for Mr. S. Gutman #2-J-59-250-375,  
Langley Matter. Injection shall be  
than than 2<sup>nd</sup> in tubing  
into S.R. from Jalmat Gas  
pool. Annulus shall be  
loaded with Sweet oil  
& pressure gauge at the  
surface. Limit does approx  
at 1 yr.

If well is to be used  
longer than 1 yr. then the  
tubing shall be plastic  
coated and annulus prepared  
as above.

Thos. W.

into the Yesso formation through parallel strings of tubing. The wells and completion intervals are as follows:

Johnston BE Well No. 1, Unit A of Section 8;  
Producing interval - 1270 feet to 1670 feet;  
Disposal interval - 2120 feet to 2950 feet;

Nix-Curtis BH Well No. 1, Unit I of Section 25;  
Producing interval - 1442 feet to 1684 feet;  
Disposal interval 2292 feet to 3121 feet;

A. W. Gerard Well No. 2, Unit J of Section 25;  
Producing interval - 1316 feet to 1696 feet;  
Disposal interval - 1824 feet to 2572 feet;

CASE 3959:

Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers formation in the perforated interval from 2960 feet to 3068 feet in its L. Gutman Well No. 2 located in Unit J of Section 29, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 3960:

Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers-Queen formations in the perforated interval from 3380 feet to 3458 feet in its S. E. Eaton Well No. 7, located in Unit P of Section 12, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 3961:

Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formations in the open-hole interval from 3476 feet to 3510 feet in its Meyers "C" Well No. 2 located in Unit C of Section 22, Township 24 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.

CASE 3962:

Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation in the perforated interval from 3180 feet to 3214 feet in its Farnsworth 4 Well No. 9 located in Unit C of Section 4, Township 26 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

LAW OFFICES OF  
JOHN F. RUSSELL  
412 HINKLE BUILDING  
P. O. DRAWER 640  
ROSWELL, NEW MEXICO 88201

November 15, 1968

TELEPHONE 622-4641  
AREA CODE 505

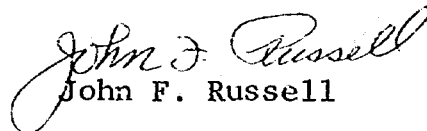
Mr. A. L. Porter, Jr.  
Secretary-Director  
Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Applications - Texas Pacific Oil Company -  
Case Nos. 3959, 3960, 3961, 3965 and 3966.

Dear Mr. Porter:

I now transmit herewith, in triplicate, the exhibits  
for the above numbered cases.

Very truly yours,

  
John F. Russell

JFR:d  
Enclosures

MAILED 10

NOV 13 AM 8 09

LAW OFFICES OF  
JOHN F. RUSSELL  
412 HINKLE BUILDING  
P. O. DRAWER 640  
ROSWELL, NEW MEXICO 88201  
November 12, 1968

TELEPHONE 622-4641  
AREA CODE 505

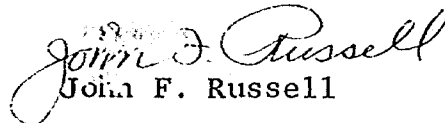
Mr. A. L. Porter, Jr.  
Secretary-Director  
Oil Conservation Commission  
Box 2088  
Santa Fe, New Mexico 87501

Re: Cases No. 3959, 3960, 3961, ~~3962, 3963, 3964,~~  
3965 and 3966.

Dear Mr. Porter:

I now transmit, in triplicate, the Applications of Texas Pacific Oil Company in the above numbered cases. The Exhibits have not all been completed but will be forwarded to your office as soon as I receive them.

Very truly yours,

  
John F. Russell

JFR:d  
Enclosures



8-5/8" 24# Csg. @ 280' w/150 sx.  
Cement circulated to surface

Calculated cement top @ 987'

Yates @ 2523'

Seven Rivers @ 2770'

2 3/8" Tubing set @ 2954'

Perforations 3060 - 68', 3018 - 3028'  
2992 - 3000', 2960' - 70'

BEFORE  
OIL CONS.  
*Appn.*  
CASE NO.

UTZ  
SSION

3959

2

Bridge plug set @ 3115'

Queen @ 3123'

Perforations 3139 - 3157', 3198 - 3207'  
3274 - 3279'

5-1/2" 15.5# Csg. @ 3295' w/400 sx.

TD: 3297'  
PBSD: 3070'

CASE 3959 EXH. 2

TEXAS PACIFIC OIL COMPANY  
L. Gutman No. 2 Unit "J"  
Elevation 3037' DF  
2310' FSL & 1650' FEL  
Sec. 29, T-25-S, R-37-E  
Langlie Mattix Pool  
Lea County, New Mexico

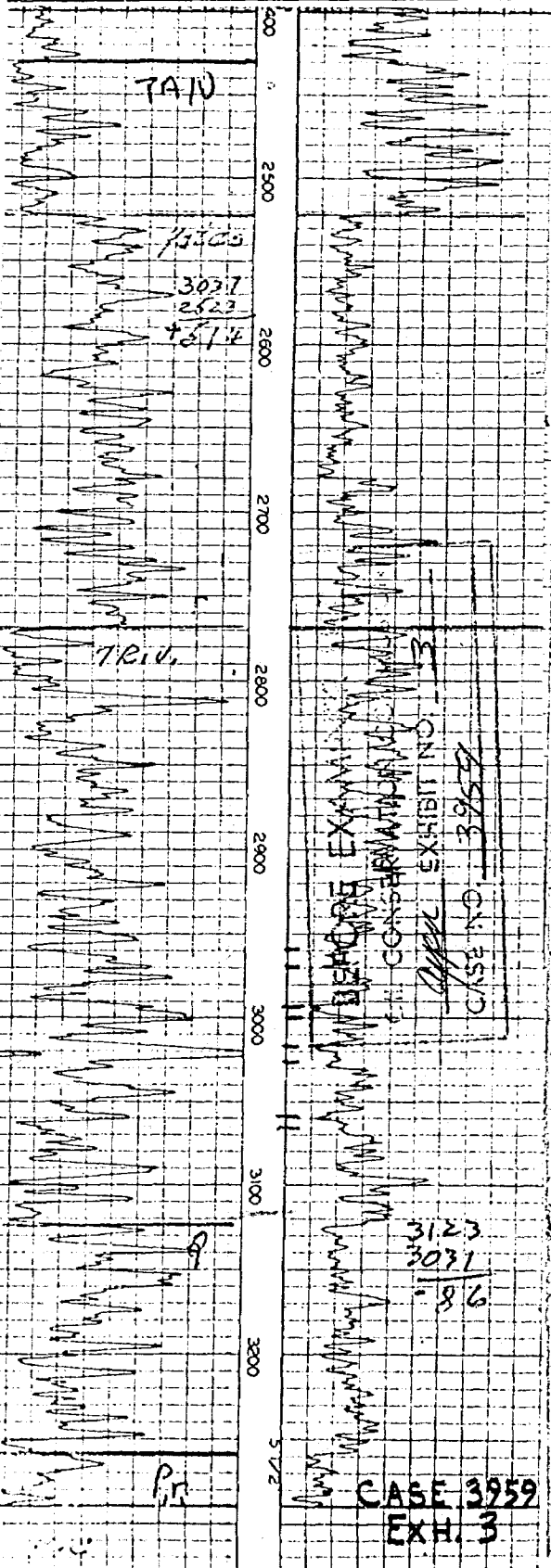
# LANE RADIOACTIVITY LOG WELLS COMPANY

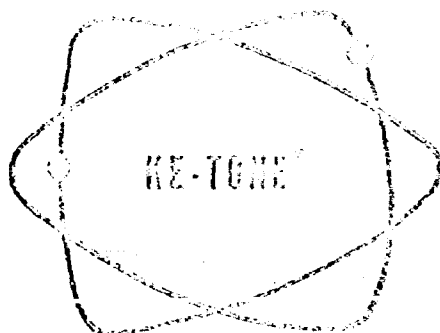
LOCATION OF WELL	COMPANY: R. OLSEN OIL COMPANY WELL: OUYAN NO. 2 FIELD: JAL COUNTY: LEA STATE: N.MEX. LOCATION: NE-14-CE SEC. 29-25S-37E 2310' FSL & 1650' FSL	FILE NO. WELL: OUYAN NO. 2 COUNTY: LEA STATE: N.MEX. LOCATION: SEC. 29-25S-37E
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LOG MEAS. FROM ROTARY TABLE	ELEV. 3037.5'
REG. MEAS. FROM ROTARY TABLE	ELEV. 3037.5'
TEMP. DATUM 5 1/2" CO. HD. FLO.	ELEV. 3027.7'

TYPE OF LOG	C/R	K-
LOG NO.	1	1
DATE	11-12-51	11-12-51
TOTAL DEPTH (DRILLER) STRAIN	3290'	3290'
REGULATIVE DEPTH (DRILLER)	3290'	3290'
OP OF LOGGED INTERVAL	850'	850'
OTOM OF LOGGED INTERVAL	3289.5'	3289.5'
TYPE OF FLUID IN HOLE	WATER	WATER
LUD LEVEL	FULL	FULL
MAXIMUM RECORDED TEMP.		600H
NEUTRON SOURCE STRENGTH & TYPE		8.25"
SOURCE SPACING - IN.		5"
LENGTH OF MEASURING DEVICE - IN.	36"	3 5/8"
NO. OF INSTRUMENT - IN.	1	1
LINE CONSTANT - SECONDS	30	30
LOGGING SPEED FT. MIN.	30	30
STATISTICAL VARIATION - IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	SCHLOTTERBACK	McGILL
WITNESSED BY	McGILL	McGILL

CASING RECORD				INTERVAL	
LOG NO.	BIT SIZE	CASING	WT. - LB.	FROM WELL RECORD	FROM R/A LOG
1	11"	8 5/8"		SURF. TO 300'	SURF. TO 300'
1	7 7/8"	5 1/2"		SURF. TO T.D.	SURF. TO T.D.





# UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

Company Texas PacificField Langlie Mattix - 7 Rivers - QueenLease Gutman #1Sampling Date 10/31/68

Type of Sample \_\_\_\_\_

## WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca++)	13.42	269
Magnesium (Mg++)	18.67	227
Sodium (Na+) <span style="float: right;">Calculated</span>	127.05	2921
Iron		1
Bicarbonate (HCO <sub>3</sub> -)	20.49	1250
Carbonate (CO <sub>3</sub> -)	NOT	FOUND
Hydroxide (OH-)	NOT	FOUND
Sulphate (SO <sub>4</sub> -)	5.43	251
Chloride (Cl-)	133.22	4724
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>BEFORE EXAMINER UTZ</p> <p>OIL CONSERVATION COMMISSION</p> <p><i>Utzen</i> EXHIBIT NO. <u>4</u></p> <p>CASE NO. <u>3959</u></p> </div>		
7.3ph c 68°F		
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as Ca CO <sub>3</sub>	32.09	1605
Carbonate Hardness as CaCO <sub>3</sub> (temporary)	20.49	1025
Non-Carbonate Hardness as CaCO <sub>3</sub> (permanent)	11.60	580
Alkalinity as CaCO <sub>3</sub>	20.49	1025
Specific Gravity c 68° F	1.005	

MOORE BUSINESS FORMS INC. LA

\* mg/l = milligrams per Liter

\* me/l = milliequivalents per Liter

Calcium carbonate scaling index positive at 86° F

Calcium sulfate scaling index negative

CASE 3959 EXH. 4

//////////////////////////////////// *Makes Water Work* //////////////////////////////////////



BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF )  
TEXAS PACIFIC OIL COMPANY FOR PER- )  
MISSION TO DISPOSE OF PRODUCED WATER )  
INTO THE SEVEN RIVERS FORMATION THROUGH )  
PERFORATED INTERVALS FROM APPROXIMATELY )  
2960 FEET TO 3068 FEET IN ITS L. GUTMAN )  
WELL No. 2, LOCATED IN UNIT "J" OF )  
SECTION 29, TOWNSHIP 25 SOUTH, RANGE 37 )  
EAST, LANGLIE MATTIX POOL, LEA COUNTY, )  
NEW MEXICO. )

No. 3959

APPLICATION

COMES NOW Texas Pacific Oil Company, a division of Joseph E. Seagram & Sons, Inc., by its Attorney John F. Russell, and states:

1. Applicant proposes to commence the disposal of salt water produced from the Yates, Seven Rivers and Queen Formations by injection into the Seven Rivers Formation through perforated intervals from approximately 2960 feet to 3068 feet in its L. Gutman Well No. 2, located in Unit "J" of Section 29, Township 25 South, Range 37 East, Langlie Mattix Pool, Lea County, New Mexico.

2. The water being disposed of is not suitable for domestic or agricultural purposes and the disposal of said water, as proposed, will not impair production of oil, gas or fresh water from the reservoir nor will it impair correlative rights.

3. Applicant attaches hereto as Exhibit "1" a plat showing the location of the proposed injection well and all wells within two miles of said proposed injection well and the names of the lessees.

MAILED  
'68 Nov 13 AM 8 CS

4. Applicant attaches hereto as Exhibit "2" a diagramatic sketch showing the manner of completing the proposed injection well.

5. Applicant attaches hereto as Exhibit "3" a graph showing the production history of the aforesaid well.

6. Applicant will present at the time of the hearing the well log of the proposed injection well.

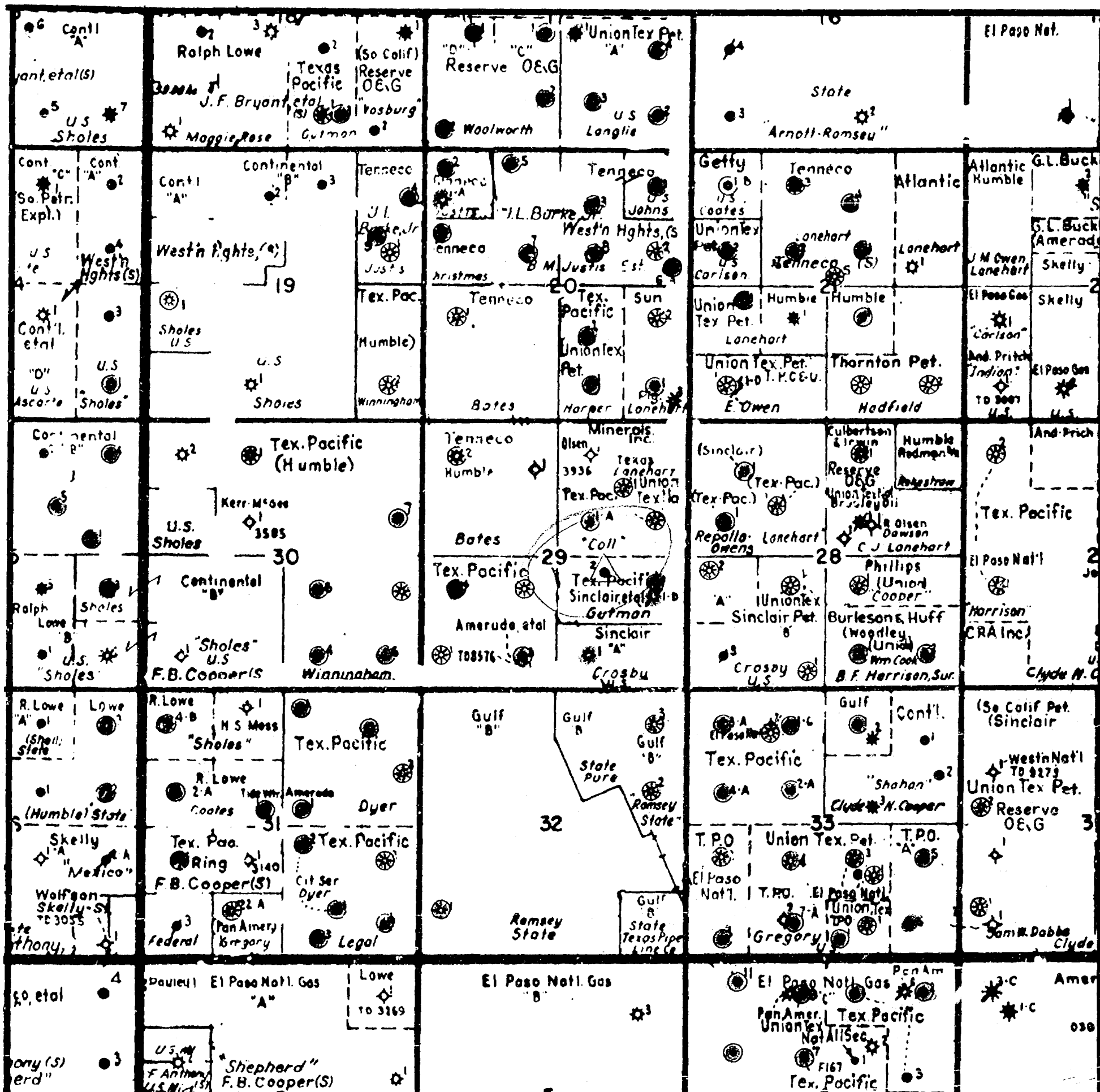
WHEREFORE, Applicant requests that the Commission set this matter down for hearing before its Examiner, publish notice as required by law and, after hearing, issue its order authorizing the disposal of salt water as aforesaid.

Respectfully submitted,

TEXAS PACIFIC OIL COMPANY,  
A division of  
Joseph E. Seagram & Sons, Inc.

By John F. Russell  
P. O. Drawer 640  
Roswell, New Mexico 88201  
Applicant's Attorney

DATED:



Proposed Water Disposal Well



Langlie Mattix Seven Rivers Queen



Jalmat Yates



Jalmat Gas



Crosby Devonian Gas

## TEXAS PACIFIC OIL COMPANY

SECTION 29; T-25-S R-37-E

LANGLIE MATTIX SEVEN RIVERS - QUEEN POOL

LEA COUNTY, NEW MEXICO

SCALE: 1" = 2000' DATE: \_\_\_\_\_

8-5/8" 24# Csg. @ 280' w/150 sx.  
Cement circulated to surface

Calculated cement top @ 987'

Yates @ 2523'

Seven Rivers @ 2770'

*Phostine C.*  
2-1/2" Tubing set @ 2954'

Perforations 3060 - 68', 3018 - 3028'  
2992 - 3000', 2960' - 70'

Bridge plug set @ 3115'

Perforations 3139 - 3157', 3198 - 3207'  
3274 - 3279'

Queen @ 3123'

5-1/2" 15.5# Csg. @ 3295' w/400 sx.

TD: 3297'  
PBD: 3070'

TEXAS PACIFIC OIL COMPANY

L. Gutman No. 2 Unit "J"  
Elevation 3037' DF  
2310' FSL & 1650' FEL  
Sec. 29, T-25-S, R-37-E  
Langlie Mattix Pool  
Lea County, New Mexico

# LANE LOG WELLS COMPANY

LOCATION OF WELL	COMPANY: R. OLSEN OIL COMPANY WELL: OUTMAN NO. 2 FIELD: JAL COUNTY: LEA STATE: N.MEX. LOCATION: 1E-4N-2E SEC. 29-25S-37E 2310' FSL & 1650' FCL	PRE NO. WELL: OUTMAN NO. 2 COUNTY: LEA LOCATION: 1E-4N-2E SEC. 29-25S-37E STATE: N.MEX.
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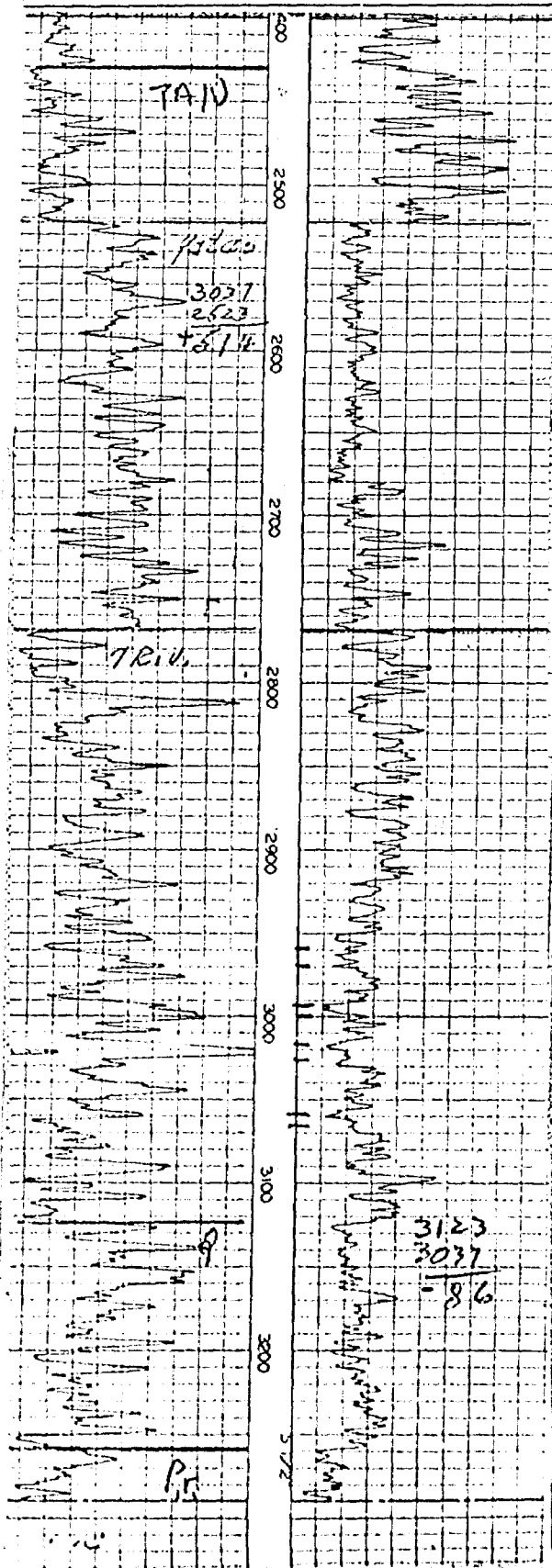
LOG MEAS FROM ROTARY TABLE ELEV. 3037.5'

REG. MEAS. FROM ROTARY TABLE ELEV. 3037.5'

FORM DATUM 5 1/2" CSD. H.D. FID. ELEV. 3027.7'

TYPE OF LOG	0/R	H
LOG NO.	1	1
DATE	11-12-51	11-12-51
DEPTH (DRILLER) STREAM	32201	32201
EFFECTIVE DEPTH (DRILLER)	32201	32201
OP OF LOGGED INTERVAL	8501	8501
OTTOM OF LOGGED INTERVAL	3289.5'	3289.5'
TYPE OF FLUID IN HOLE	WATER	WATER
FLUID LEVEL	FULL	FULL
MAXIMUM RECORDED TEMP.	A	600N
NEUTRON SOURCE STRENGTH & TYPE		8.25"
SOURCE SPACING—IN.		9"
LENGTH OF MEASURING DEVICE—IN.	36"	3 5/8"
T.D. OF INSTRUMENT—IN.	3 5/8"	3 5/8"
TIME CONSTANT—SECONDS	8	8
LOGGING SPEED FT./MIN.	30	30
STATISTICAL VARIATION—IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	SCHLOTTERBACK	
WITNESSED BY	McCALL	McCALL

CASING RECORD	INTERVAL
UNNO. BIT SIZE CASING "VT.—LB. FROM WELL RECORD	FROM R/A LOG
1 11" 8 5/8" SURF. TO 300'	SURF. TO 300'
1 7 7/8" 5 1/2" SURF. TO T.D.	SURF. TO T.D.
	TO
	TO
	TO





## UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

Company Texas Pacific

Field Langlie Mattix - 7 Rivers - Queen

Lease Gutman #1 Sampling Date 10/31/68

Type of Sample \_\_\_\_\_

## WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca <sup>++</sup> )	13.42	269
Magnesium (Mg <sup>++</sup> )	18.67	227
Sodium (Na <sup>+</sup> )	Calculated 127.05	2921
Iron		1
Bicarbonate (HCO <sub>3</sub> <sup>-</sup> )	20.49	1250
Carbonate (CO <sub>3</sub> <sup>-</sup> )	NOT	FOUND
Hydroxide (OH <sup>-</sup> )	NOT	FOUND
Sulphate (SO <sub>4</sub> <sup>-</sup> )	5.43	261
Chloride (Cl <sup>-</sup> )	133.22	4724
7.3 ph c 68°F		
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as CaCO <sub>3</sub>	32.09	1605
Carbonate Hardness as CaCO <sub>3</sub> (temporary)	20.49	1025
Non-Carbonate Hardness as CaCO <sub>3</sub> (permanent)	11.60	580
Alkalinity as CaCO <sub>3</sub>	20.49	1025
Specific Gravity @ 68° F	1.005	

MOORE BUSINESS FORMS INC. LA

\* mg/l = milligrams per Liter

\* me/l = milliequivalents per Liter

Calcium carbonate scaling index positive at 86° F

Calcium sulfate scaling index negative

~~~~~ Makes Water Work ~~~~~

DRAFT  
GMH/esr

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 3959

Order No. R-3604

APPLICATION OF TEXAS PACIFIC OIL  
COMPANY FOR SALT WATER DISPOSAL,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

8:30

This cause came on for hearing at 8 a.m. on November 20, 1968,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this \_\_\_\_\_ day of November, 1968, the Commission, a  
quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, Texas Pacific Oil Company  
is the owner and operator of the L. Gutman Well No. 2  
located in Unit J of Section 29, Township 25 South, Range  
37 East, NMPM, Langlie-Mattix Pool, Lea  
County, New Mexico.

(3) That the applicant proposes to utilize said well to  
dispose of produced salt water into the Seven Rivers  
formation, with injection into the perforated interval  
from approximately 2960 feet to 3068 feet.

(4) That the injection should be accomplished through  
2 3/8-inch ~~plastic-lined~~ tubing set at approximately 2954 feet;  
~~installed in a packer set at~~

Ranglie Mattin

7-R-Q

perf 5 3380-3458

S.E. Eaton No 7 ~~12-125~~ 37E  
P 255-

Ranglie Mattin

7R

perf 2960-3068

~~12~~ L. Hartman No 2 J 29 255 37E



✓ Texas Pacific

Drink open hole 6333-6419  
Boyd Well no 1 G 23-225-37E  
Drunkard Pool

7-R-Q perf int 3080-3350  
Legal no 4 J 31-255-37E  
Jalumat

Yates-7R perf int 2600-3158  
Harner Well no 1 O-20-255-37E  
Jalumat  
Langile

[Q perf 3240-3290  
Gregory "C" no 3 H 35-255-37E

Langile  
matting Q perf int 3180-3214

Farnsworth ~~no~~ 4 Well no 9  
C-4-265-37E

Jalumat

H-7R open hole 3476-3510  
Meyers "C" no 2 C-22-245 36E