CASE 3960: Application of TEXAS PACIFIC FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

-ase Number 3 960

Application
Transcripts.

Small Exhibits

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## 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 3960

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING



MR. UTZ: Case Number 3960.

MR. HATCH: Case 3960, Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico.

MR. RUSSELL: John F. Russell, on behalf of the applicant, and the witness is Mr. Ror Freels, who testified in the previous case.

MR. UTZ: Let the record show that he was sworn in the previous case.

(Whereupon, Applicant's Exhibits Numbers 1 through 5, inclusive, were marked for identification.)

## RON FREELS

called as a witness, and having been previously sworn upon his oath, was examined and testified as follows:

## DIRECT EXAMINATION

#### BY MR. RUSSELL:

- Q Mr. Freels, are you familiar with Texas Pacific Oil Company application in Case No. 3960?
  - 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 Queen Formations -- I'd like to correct that into just the Queen Formations -- in the perforated interval from 3,380 feet to 3,458 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.
  - Q Do you have exhibits marked?
- A Yes, we do. These are the ones that are stamped, and two different sets with exhibit numbers and case numbers marked on them.
- Q Have you prepared some exhibits in connection with this application?
  - A Yes, I have.
- Q Will you take them in order, and identify the exhibits, and explain what they represent?
- A Exhibit Number 1 is a plat of the area in which the proposed injection well is located. The plat shows that all of the producing wells in the horizons from which they are producing within two miles of the well, and show the location of the injection well as a yellow triangle.

The well is located 990 feet from the east line, and 330 feet from the south line of Section 12, Township 25 South, Range 37 East, Lea County, New Mexico. This well is to serve only the Eaton Lazos, which are in Section 12.

Exhibit 2 is a schematic of the proposed injection well. The schematic shows the well as 9 and five-eighths inch

casing at 304 feet, cemented to the surface with 250 sacks; and that the well has seven-inch casing at 3,497 feet, cemented with 400 sacks of cement. I fail to see a top of cement noted on this. We will have to provide that at a later date. It may be that this was an old well, and we do not have that information available to us.

The schematic also shows the top of the Seven Rivers at 2,760 feet, the top of the Queen at 3,245 feet. We propose to inject down tubing set into a packer at 3,280 feet, and we inject into perforations opposite the Queen from 3,380 to 3,458 feet.

This well also was plugged back, so these are the only intervals that will be open to perforations opposite the Oueen.

Exhibit 3 is a log of the proposed injection well, which shows the top of the Seven Rivers at 2,760 feet. The top of the Queen is marked in red at 3,245 feet, and the perforations are shown opposite the Queen zone.

Exhibit 4 is an analysis of the water from our S. W. Eaton Battery No. 1. It shows the total chlorides of 91,140.

Exhibit 5 is a water analysis from the S. W. Eaton Battery No. 2, and this shows a very similar chloride content of 93,086 parts per million chlorides.

Q What quantity of water do you anticipate disposing through this well?

A We propose to inject approximately 700 barrels of water per month, and we will load the tubing casing annulus with inhibited crude, and provide a valve at the surface to monitor it.

Q Did you state whether that tubing was to be lined or not?

A No, I did not. We intend to again treat this water. We feel that we can inhibit this water at a much more economic rate than we can coat the tubing. Again, we will provide a coupon for monitoring the effectiveness of our treating campaign, and will submit quarterly reports to the Commission.

Q Were Exhibits 1 through 5 prepared by you or under your supervision and direction?

A They were.

Q In your opinion, would the granting of this application prevent premature abandonment of wells and protect the rights of other operators?

A It will.

MR. RUSSELL: Mr. Examiner, I offer in evidence
Applicant's Exhibits 1 through 5, inclusive.

MR. UTZ: Without objection, Exhibits 1 through 5 will

be received into the record of this case.

(Whereupon, Applicant's Exhibits Numbers 1 through 5, inclusive, were received in evidence.)

## CROSS EXAMINATION

## BY MR. UTZ:

- Q Mr. Freels, does your Eaton Lazos include all of Section 12?
- A Yes, it does. They are Blinebry production and Langlie-Mattix production. We do not anticipate any problems with combining these waters in this area.
  - O How many wells will this injection well serve?
- A Actually, if you count on the map, there are 1, 2, 3, 4, 5, 6, 7, 8, I believe it is eight wells. It must be ten wells. 4 and 4 is eight, and 2 is ten.
  - Q I count eleven.
- A It is all of these wells on here. I'm trying to count them. 2, 4, 6, 10, 11, you are correct.
- Q That is quite a substantial bit of production, is it not?
- A Yes, this is a lease which we feel has quite a future of several years yet.
- Q And what condition is the No. 7 well in the present time?

A The No. 7 well, it has been shut in for some time.

I do not know exactly how long it has been shut in, but it has been shut in for some time.

Q Is the tubing in the hole?

A I don't think so. Generally, we remove the tubing on these wells when they are shut, so we will have to bring additional tubing to the well, and we do plan on this one also running a packer.

Now, 400 sacks on seven-inch casing would bring the cement pretty high, would it not?

A It should bring it well up into the Seven Rivers.

Until I had an opportunity to look into our files to see whether we had a caliper of this, I would hesitate to guess. Seven hundred sacks should have brought the cement quite a ways up the hole.

Q What do they usually drill the hole size?

A We have 9 and five-eighths inch casing, so we probably drilled at most a 8 and three-quarter inch hole. It should be a pretty tight fit.

MR. UTZ: Any other questions?

MR. RUSSELL: No other questions.

MR. UTZ: That will be taken under advisement.

# INDEX

WITNESS	PAGE
RON FREELS	
Direct Examination by Mr. Russell	2
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EXHIBITS	MARKED	OFFERED AND ADMITTED	
Applicant's Exhibits Numbers 1 through 5	2	6	

STATE	OF	NEW	MEXICO	)	
				)	SS
COUNTY	or	BEI	RNALILLO	)	

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.

Sym Mortelette.
COURT REPORTER

I do hereby cartify that the foregoing is covalute record of the proceedings to the Brazinar hearing of these be. 3267 heard by me on 1

New Mexico Oil Conservation Commission

# 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. 3960 Order No. R-3608

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. Uts.

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 S. E. Eaton Well No. 7, located in Unit P of Section 12, 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 Queen formation, with injection into the perforated interval from approximately 3380 feet to 3458 feet.
- (4) That the injection should be accomplished through 2 3/8-inch plastic-lined tubing installed in a packer set at approximately 3245 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-CASE No. 3960 Order No. R-3608

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, Texas Pacific Oil Company, is hereby authorized to utilize its S. B. Eaton Well No. 7, located in Unit P of Section 12, Township 25 South, Range 37 East, NMPM, Langlie-Mattix 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 3245 feet, with injection into the perforated interval from approximately 3380 feet to 3458 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 Moxico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
COMMISSION

DAVID F. CARGO, Chairman

GUYTON H. HAYE, Manber

. L. PORTER, Jr., Member & Secretary

Care 3860 Keard 11-20-68 lee. 11-22-65. their S. E. Eaton #7-P-12-250-375 Langlie Hatter. Injection shall be then 2% Internally starter Goaled tubing & under a packer its be set at approx 3245 4 into the Lucan Alm. then perks. 3380-3458. Ske annulus skell be loaded with imitfluid uf press. Jenge at senface, the rollis cen edge with L. M. so should be and 5 n D. The lease is a good leave soith 11 wells. ed economics should not be a problem The The

> Opplication was to inject inte 7-Review and Queen last schematic shows Top of Queen, at 3245 - so shall order read only the Queen? House OK

into the Yeso 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:

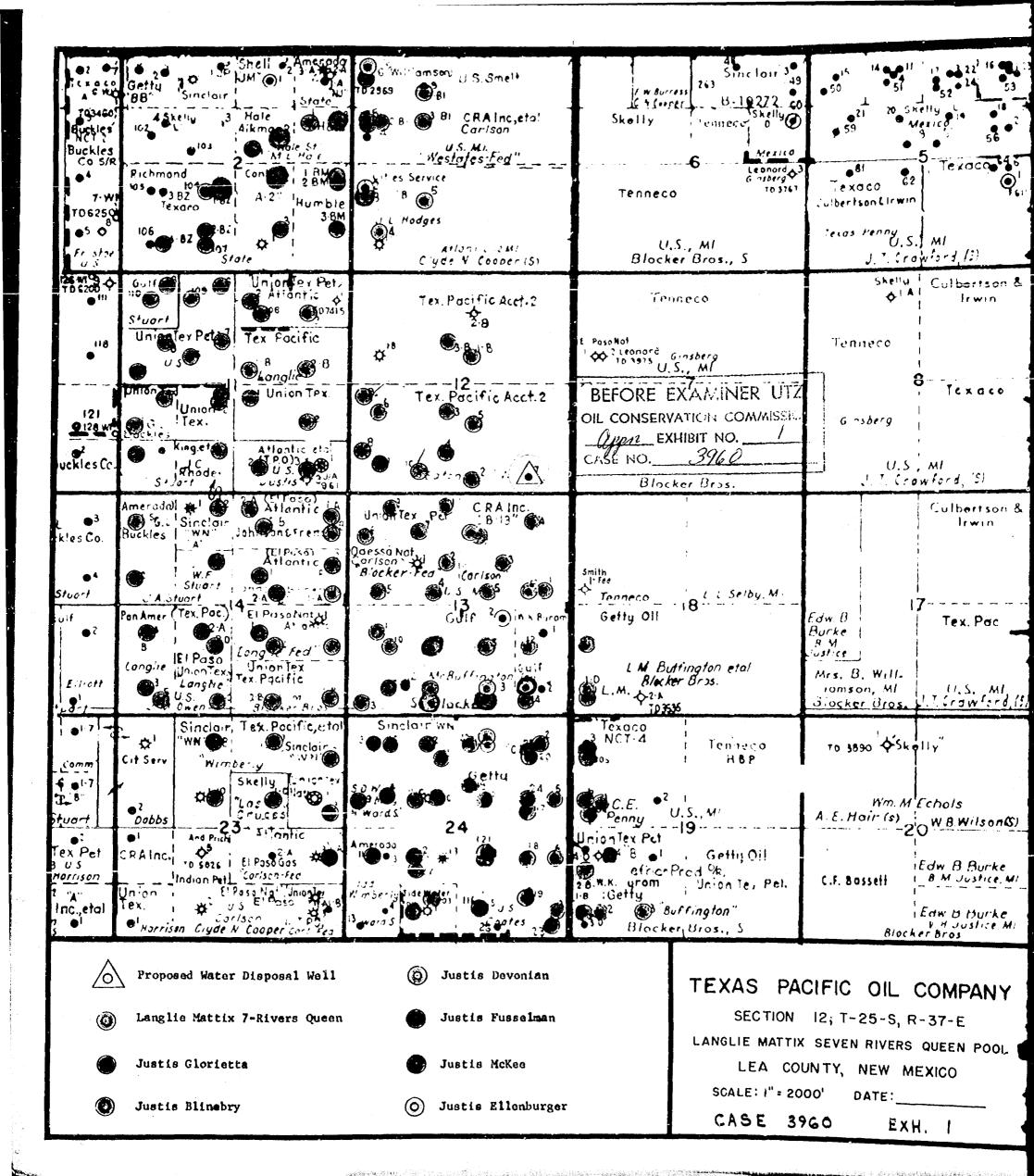
Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers-Queen formations in the perforated interval from 3380 feet to 3458 feet in its S. E. Eaton Well No. 7, 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.



9-5/8" Csg. @ 304' w/ 250 sx. Cement circulated 2-3/8" tubing set @ 3280' Perforations 3380 - 84', 3388 - 98 3404 - 10', 3416 - 20 3428 - 32', 3444 - 50 3454 - 58'

7" Csg. @ 3497" w/400 sx.

Seven Rivers @ 2760'

Queen @ 3245'

TD: 3523' PBTD: 3466'

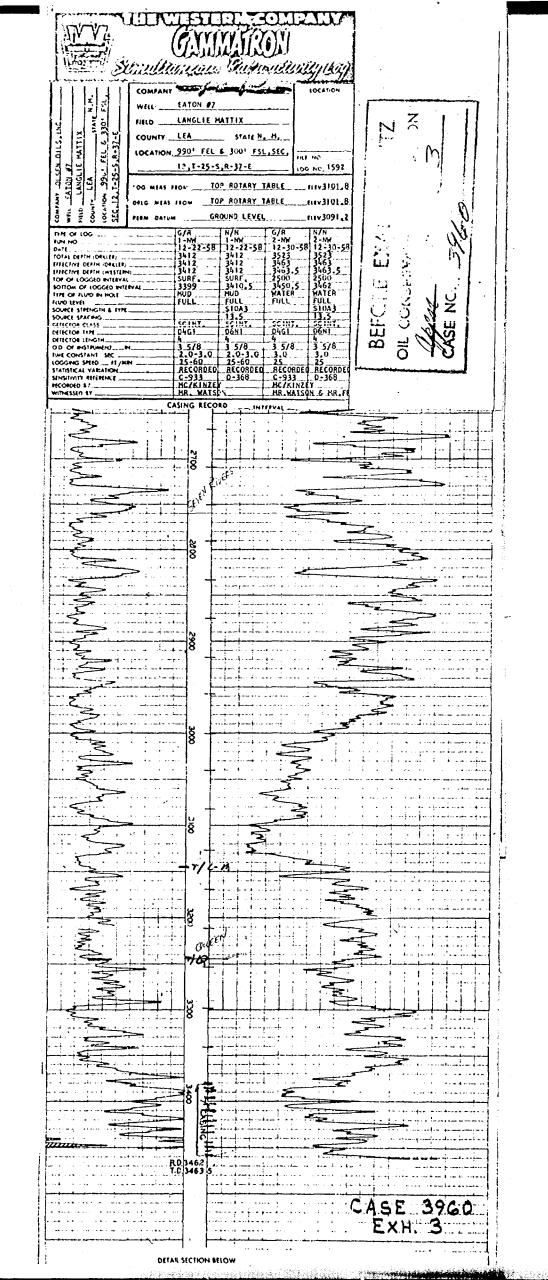
OH MAISSION MAISSION PARISH NO. 2

CASE 3960 EXH. 4

TEXAS PACIFIC OIL COMPANY

S.E. Eaton No. 7 Unit "P"

\*\*Rievation 309% GL
990' FEL 6 330' FSL
Sec. 12, T-25-S, R-37-E
Langlie Mattix Pool
Lea County, New Mexico





# CHEMICAL CORPORATION

601 NORTH LEECH

P. O. BOX 1499

	HOBBS, NEW MEXICO 88240			
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Company Texas Pacific Tubb Drinkard	e un militar e mante en la completar esta esta esta que domina mangener que que membro que en la completa de l	er den sich die verweisen der verversen gelte heldenden verticklichen, im John verbeilich wird der ver		
Field				
Leose Eaton SW Batter	y #1 Sampling (	Date 10/31/68		
- Type of Sample				
WATER ANALY				
IONIC FORM	me/l •	mg/l·		
Calcium (Ca++)	255.54	5121		
Magnesium (Mg++)	555,61	6756 🖔		
Sodium (Na+) Calculated	1810.58	41,625		
Iron		77		
Bicarbonale (HCO <sub>1,</sub> )	3.20	195		
Carbonate (CO 3 -)	3.20	96		
Hydroxide (OH-)	NOT	FOUND		
Sulphate (SO <sub>4</sub> -)	45,18	2170		
Chloride (C1-)	2570.15	91,140		
	-			
	·			
, or				
B <sub>2</sub> 3 ph c 68 °F Dissolved Solids on Evop. at 103° - 105° C				
Hardness as Ca CO <sub>2</sub>	811.15	40,558		
Carbonate Hardness as CaCO <sub>3</sub> (temporary)				
Non-Carbonate Hardness as CaCO <sub>1</sub> (permanent)	6,40	256 40,238		
Alkalinity as CaCO3				
Specific Gravity r 68° F 1.085	6.40	256		
2000				
	BEFORE EXAMIN	ED "117"		
• mg/l= milligrams per Liter	DEFORE EXAMIN	EIV O 124 (		
· me/l = milliequivalents per Liter	OIL CONSERVATION CO	. /		
alcium carbonate scaling index positive at 86° F	MARIN EXHIBIT NO.	4		

Calcium sulfate scaling index negative

REPORE EXAMINER OIL	
OIL CONSERVATION COMMISSION	
AVEN EXHIBIT NO. 4	
CASE NO. 3960 EXH.	
CASE 3960 EXH.	4

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# UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HORDS, NEW MEXICO 88240

Company	Texas Pacific		
Field	Tubb Drinkard		
Lease	Eaton SW Battery #2	Sampling Da	10/31/68
. Type of Sam	ple		
	WATER ANALYSIS		
IONIC FORM		me/i *	mg/l
Calcium (Ca++)		169,71	3401
Magnesium (Mg++)		730.95	8888
Sodiom (Nat)	Calculated	1787.30	41,090
Iron			112
Bicarbonate (HCO, )		3.93	240
Carbonate (CO 3 -)		NOT	FOUND
Hydroxide (OH-)		NOT	FOUND
Sulphate (SO, -)		59.00	2834
Chloride (C1-)		2625.03	93,086
c ph c co °F			
6.5 ph c 68 °F Dissolved Solids on Evap. at 103°-105°C			
Hardness as Ca CO <sub>3</sub>		900.66	45,033
Carbonate Hardness as CaCOs (temporary)		3,93	197
Non-Carbonate Hardness as CaCO, (permanent)		896.73	44,837
Alkalinity as CaCO,		3.93	197
Specific Gravity c 63° F	1.090		
• mg/l= milligrams per Liter		BEFORE EXAM	INFR 1177
* me/l= milliequivalents per liter  Calcium carbonate scaling index slight	ly positive at 104 °	OIL CONSERVATION	COMMISSION
Lalcium sulfate scaling index negative	·-	EXHIBIT N	O

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# 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-QUEEN FORMATIONS IN THE PERFORATED INTERVALS 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.

No. 3960

# 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 and Queen Formations in the perforated intervals 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.
- 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.

- 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 nearing 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.

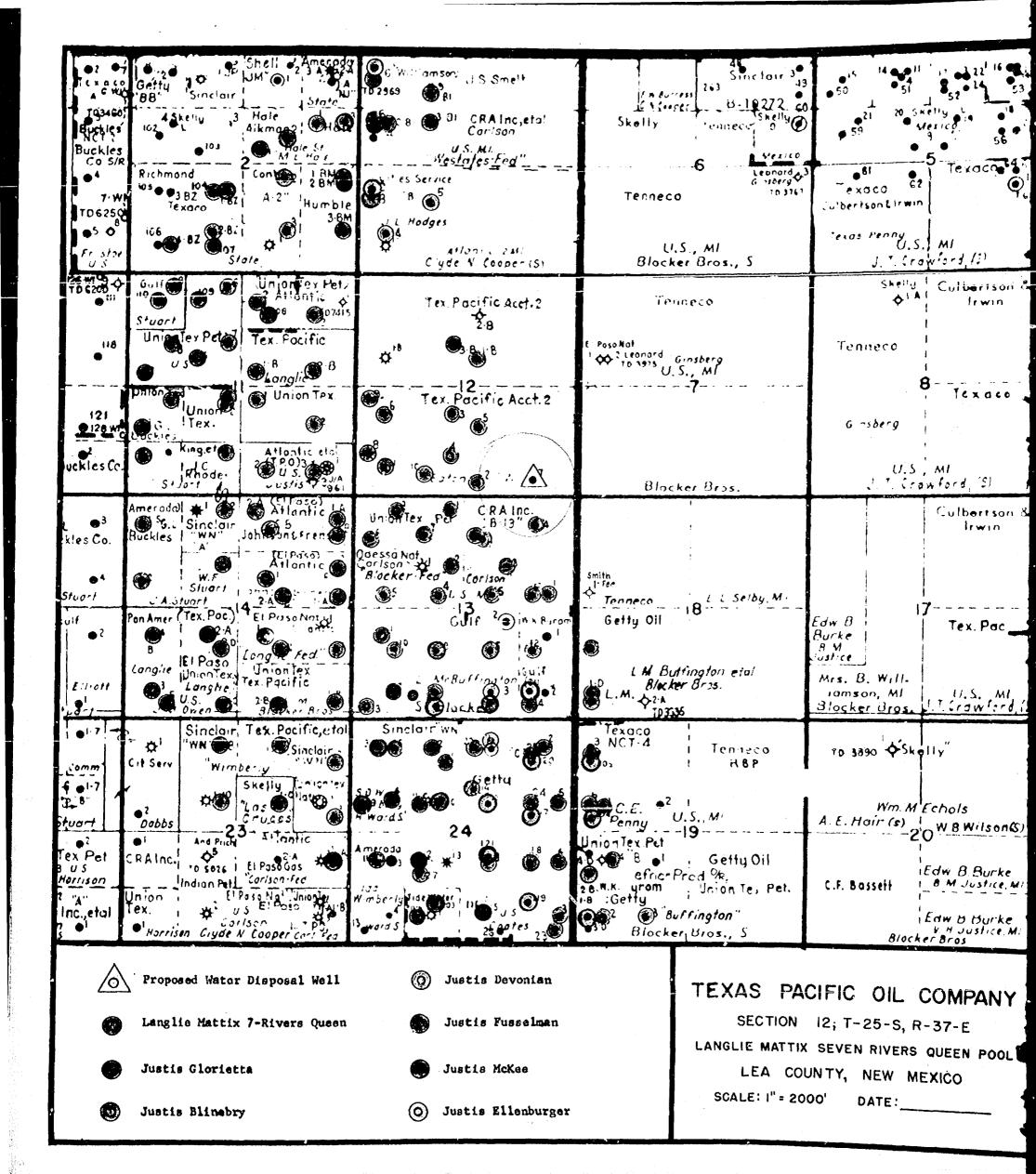
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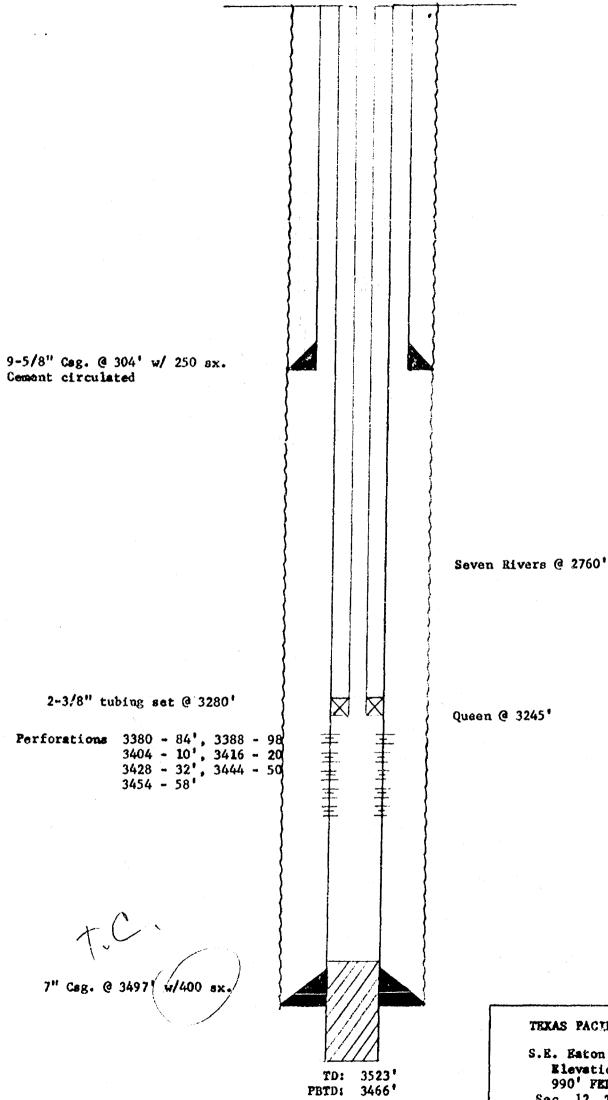
P. O. Drawer 640

Roswell, New Mexico 88201

Applicant's Attorney

DATED:

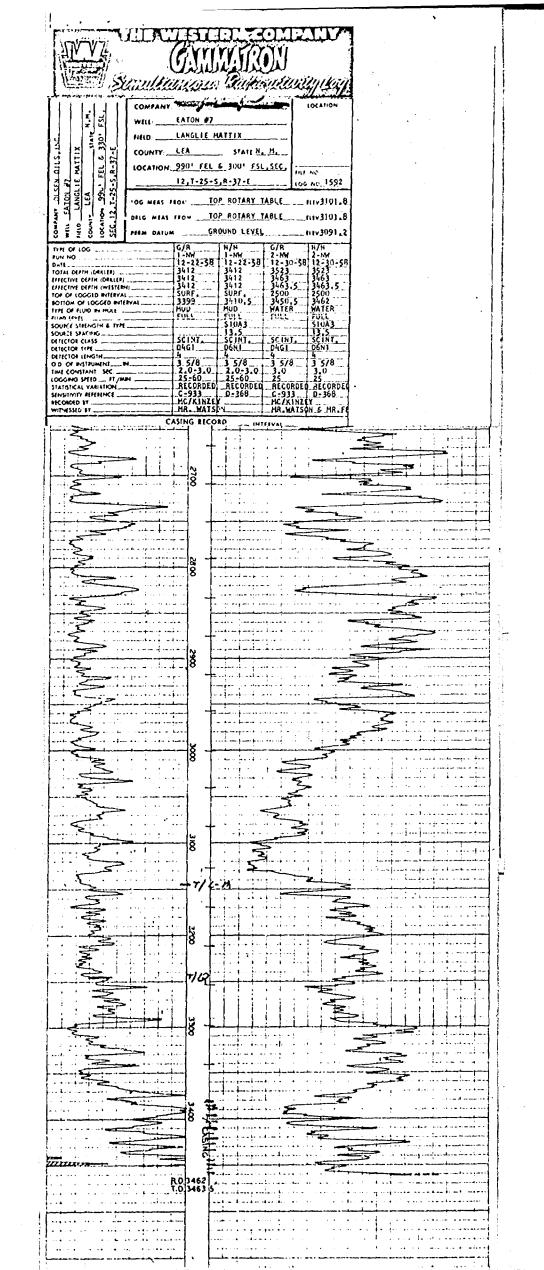




TEXAS PACTFIC OIL COMPANY

S.E. Eaton No. 7 Unit "P"

Elevation 3091 GL
990 FEL & 330 FSL
Sec. 12, T-25-S, R-37-E
Langlie Mattix Pool
Lea County, New Mexico





#### UNITED CHEMICAL CORPORATION

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

Company	Texas Pacific	
. •	Tubb Drinkard	
		Sampling Date 10/31/68
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WATER ANALYSIS		
IONIC FORM	me/l ·	mg/l·
Calcium (Ca++)	255.54	5121
Magnesium (Mg++)	555,61	6756 🐣
Sodium (No+) Calculated	1810.58	41,625
Iron		77
Bicarbonate (HCO, )	3.20	195
Carbonate (CO ; -)	3.20	96
Hydroxide (OH-)	NOT	FOUND
Sulphate (SO, -)	45,18	2170
Chloride (C1-)	2570.15	91,140
8,3 ph c 68 °F		<u> </u>
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as Ca CO,	811.15	40,558
Carbonate Hardness as CaCO, (temporary)	6.40	256
Non-Carbonata Hardness as CaCO2 (permanent)	804.75	40,238
Alkolinity as CaCO,	6,40	256
Specific Gravity c 68° F 1.085		
		1

<sup>\*</sup> mg/l= milligrams per Liter

Calcium carbonate scaling index positive at 86° F Calcium sulfate scaling index negative

<sup>\*</sup> me/l = milliequivalents per Liter



# UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LESCH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

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	Lease	Eaton SW Battery #2	Sampling Date_	10/31/68
	Type of San	1ple		. —

#### WATER ANALYSIS

	WATER ANALYSIS		
IONIC FORM		me/l *	mg/l·
Calcium (Co++)		169.71	3401
Magnesium (Mg++)		730.95	8888
Sodium (Na+)	Calculated	1787.30	41,090
Iron			112
Bicarbonate (HCO, )	Pro the survey of the survey	3.93	240
Carbonate (CO 7 -)	The late and the late of the l	NOT	FOUND
Hydroxide (OH-)		NOT-	POUND
Sulphate (SO, -)	•	59.00	2834
Chloride (C1-)		2625.03	93,086
	-		
6.5 ph c 68 °F			
Dissolved Solids on Evap. at 103° - 105° C			
Hardness as Ca CO,		900.66	45,033
Carbonate Hardness as CaCO; (temporary)		3,93	197
Non-Carbonate Hardness as CaCO3 (permanent)		896.73	44,837
Alkalinity as CaCO,		3.93	197
Specific Gravity c 68° F	1.090		

<sup>\*</sup> mg/l ≈ milligrams per Liter

Calcium carbonate scaling index slightly positive at 104  $^{\circ}$  F Calcium sulfate scaling index negative

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<sup>\*</sup> me/l = milliequivalents per Liter

# BEFORE THE CUL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

(F)

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

CASE No. 3960 Order No. R- 6608 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 9 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 S. E. Eaton Well No. 7 located in Unit P of Section 12, 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 Goven Rivers-Queen formation, with injection into the perforated interval from approximately 3380 feet to 3458 feet. (4) That the injection should be accomplished through

2% -inch plastic-lined tubing installed in a packer set at

approximately 3245 feet; that the casing-tubing annulus should no filled with an inert fluid; and that a pressure gauge should be attached to the annulus or the annulus left open at the surface in order to determine leakage in the casing, tubing, or packer.

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

# IT IS THEREFORE ORDERED:

(1) That the applicant, Texas Pacific Oil Company	
is hereby authorized to utilize its S. E. Eaton Well No. 7	
located in Unit P of Section 12, Township 25 South, Range	
37 East, NMPM, Langlie-Mattix Pool , Lea	
County, New Mexico, to dispose of produced salt water into the	
Second Queen formation, injection to be accomplished through	дh
238 -inch tubing installed in a packer set at approximately	
3245 feet, with injection into the perforated interval	11
from approximately 3380 feet to 3458 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 on 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.