

CASE 4005: Appli. of PETROLEUM
CORP. OF TEXAS FOR SALT WATER
DISPOSAL, LEA COUNTY, NEW MEXICO.

— dse Number

4005

Application
Transcripts.

Small Exhibits

ETC.

dearnley-meier reporting service, inc.

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

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6611 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

December 27, 1968

EXAMINER HEARING

IN THE MATTER OF:)

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

Case No. 4005

BEFORE: Daniel S. Nutter,
Examiner

TRANSCRIPT OF HEARING

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICOHearing Date DECEMBER 27, 1968 TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
W. H. Garrison	Sam S. Allen	Santa Fe
B. H. Garrison	Ralph Lowe	
B. K. Bevil	Petroleum Corp. of Texas	Breckenridge, Tex
Jason Kellah	Humble Oil & Ref. Co	Hobbs, N. M.
W. G. McCoy	Kellah & Son	Santa Fe
W. G. McCoy	Paul Dickson	Roswell
W. G. McCoy	Howard Malone	Roswell

MR. NUTTER: The first case this morning will be
Case No. 4005.

MR. HATCH: Case 4005, application of Petroleum
Corporation of Texas for salt water disposal, Lea County,
New Mexico.

MR. CAMPBELL: I am Jack M. Campbell, of Stephenson,
Campbell & Olmsted, of Santa Fe, representing the applicant.
We have one witness, Mr. Harrison.

(Witness sworn.)

(Whereupon, Applicant's Exhibits
Numbers 1, 2, 3, inclusive,
were marked for identification.)

B. G. HARRISON

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

DIRECT EXAMINATION

BY MR. CAMPBELL:

Q State your name, please?

A B. G. Harrison.

Q By whom are you employed and in what capacity?

A Petroleum Corporation of Texas, Manager of Secondary
Recovery.

Q What is your profession?

A I am a Petroleum Engineer.

Q Have you testified before the Commission or its Examiners previously in that capacity?

A Yes, sir.

MR. CAMPBELL: Are the witness's qualifications acceptable, Mr. Examiner?

MR. NUTTER: They are.

Q Mr. Harrison, are you acquainted with application of Petroleum Corporation of Texas for salt water disposal through its State HTB No. 1 Unit D Well in Section 31, Township 12 South, Range 34 East, Hightower Field, Lea County, New Mexico?

A Yes, I am.

Q I hand you Applicant's Exhibit Number 1, and ask you to state what that is, please?

A This is a plat showing the Hightower-East Field in Lea County, New Mexico, depicting the wells and the completion, as far as the Upper and Lower Pennsylvanian are concerned in this field.

Q Will you identify the well that you propose to use for injection?

A We propose to use Well HTB No. 1, which is encircled in red on the map, in the northwest quarter of Section 31.

Q And from which wells will the water come?

A We plan to inject produced water from the Petroleum

Corporation of Texas State HT Lease, and State HTA Lease.

Q Are those both completed in the Upper Pennsylvanian?

A Yes, they are.

Q I notice a well on the Pan American Lease just on the north of the proposed injection well. Would you advise the Examiner the status of that well, please?

A This well is presently completed in the Lower Pennsylvanian. I am advised by Pan American personnel that this well was attempted to be recompleted in the Upper Pennsylvanian, and failed to develop commercial production. They are now back in the Lower Pennsylvanian testing, and at this time it is undetermined whether or not they will be able to continue with operation of the well.

We have offered to take their produced water, and inject it into our well should this application be approved.

Q Now, have you tested the Lower Pennsylvanian in the proposed injection well?

A The Lower Pennsylvanian was tested in the HTB No. 1 by Shell Oil Company prior to its acquisition by Petroleum Corporation of Texas. The well record reflects that the Lower Pennsylvanian was adequately tested, and that commercial production would not result from any additional work in that zone.

Q I notice some figures in red and blue adjacent to the well location identifications on the plat. Would you explain to the Examiner what these are?

A The red figures above the red line indicate the oil production in barrels per day as tested by well test equipment in the latter part of November, 1968. For instance, the State HTB No. 1 tested 3 barrels of oil. The lower figure in blue represents the water production. This well produced 10 barrels of water on this test.

MR. NUTTER: These are 24 hour tests?

THE WITNESS: 24 hour tests, yes.

Q I hand you what has been identified as Applicant's Exhibit Number 2, and as you to state, please, what that is?

A This is a diagrammatic sketch showing the completion of HTB Well No. 1, showing the casing and cementing program, the tubing as we planned to set it, using plastic coated 2 and 3/8 inch tubing, set on a packer at approximately 9,700 feet for injection of produced water. It also reflects the intervals which have been completed in the well. It shows the current producing interval through perforations at 9,873 to 9,885, 9,833 to 9,841, 9,859 to 9,864, 9,909 to 9,912, and 9,933 to 9,946, all of these in the Bough series of the Upper Pennsylvanian.

Then it shows a cast iron bridge plug being set at 9985, with two sacks of cement on top of it. This is the plugged back TD of this well at the present time, 9985.

Q Where is it then that you intend to inject the water?

A We intend to inject the water in the perforated interval between 9933 and 9946.

Q I hand you what has been identified as Applicant's Exhibit Number 3, and ask you to please state what that is?

A This is a Schlumberger bore hole compensated gamma ray log, which was run for Shell Oil Company on the State HTB No. 1 on 12-27-65, following drilling of the well.

Q I notice you have made some markings with a blue and red pencil there. Will you explain to the Examiner what those indicate?

A The blue pencil marks indicate the top of the Bough A and the top of the Bough C as depicted from geological data.

The red markings along the side of the log indicate the intervals that are now perforated above the 9985 plug back total depth, which is indicated on the log. This is the interval in which we propose to dispose of the produced water through these particular sets of the perforations.

Q Mr. Harrison, do you believe that if you are permitted to use this well for salt water disposal, and it is completed

and used as indicated in your Exhibit Number 2, that this can be done in the interest of the conservation, and that no waste of oil or gas will occur?

A Yes, we don't feel that any waste will occur. As a matter of fact, this will be preserving production, because we will enable the other 2 wells, the HT, and the HTA, to produce longer, because we will have a facility for disposing of the produced water, and it will not have to be hauled or use some other more expensive method of disposal.

MR. CAMPBELL: I believe that is all the questions at this time.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Harrison, I note from the log here that the well was drilled approximately 3 years ago, as a matter of fact, it was logged just 3 years ago today. Has it been a commercial well?

A No, sir, not over all, it has not, because I believe the cumulative production would be something less than 20,000 barrels.

Q Was that from the Lower Pennsylvanian as well as the Upper Pennsylvanian?

A Yes, this is a combined production.

Q So it has been depleted, for all practical purposes?

A Yes.

Q Now, the annulus here will be loaded with an inert fluid, or what?

A Yes, it will probably be loaded with fresh water using a corrosion inhibitor.

Q It will be inhibited water?

A Yes.

Q Can that annulus be equipped with a pressure gauge at the surface to detect leakage?

A Yes, it can.

MR. NUTTER: Any further questions of Mr. Harrison?
You may be excused.

MR. CAMPBELL: I would like to have the record show that Applicant's Exhibits Numbers 1, 2, and 3 are offered in evidence.

MR. NUTTER: Petroleum Corporation's Exhibits 1 through 3 are admitted in evidence.

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

MR. NUTTER: Do you have anything further?

MR. CAMPBELL: No, sir.

MR. NUTTER: Does anyone have anything they wish to

offer in Case 4005? We will take the case under advisement,
and call Case 4006.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
B. G. HARRISON	
Direct Examination by Mr. Campbell	2
Cross Examination by Mr. Nutter	7

<u>EXHIBITS</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
Applicant's Exhibits Numbers 1 through 3	2	8

STATE OF NEW MEXICO)
) SS.
 COUNTY OF BERNALILLO)

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

Samuel Mortelette
 COURT REPORTER

I do hereby certify that the foregoing is
 a true and correct record of the proceedings in
 the hearing held at Case No. 4005,
 and was held on 12/27, 1968.

Samuel Mortelette, Examiner
 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 2000
SANTA FE

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

December 31, 1968

Honorable Jack M. Campbell
Stephenson, Campbell & Olmsted
Attorneys at Law
Post Office Box 877
Santa Fe, New Mexico

Re: Case No. 4005 ✓
4006
Order No. R-3648 and R-3649
Applicant:
Petroleum Corporation of Texas

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 x - R-3649

Aztec OCC

Other State Engineer Office
Bureau of Land Management - R-3649

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. 4005
Order No. R-3648

APPLICATION OF PETROLEUM CORPORATION
OF TEXAS 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 December 27, 1968, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 31st day of December, 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, Petroleum Corporation of Texas, is the owner and operator of the State HTB Well No. 1, located in Unit D of Section 31, Township 12 South, Range 34 East, NMPM, East Hightower-Upper Pennsylvanian Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the Upper Pennsylvanian formation, with injection into the perforated interval from approximately 9783 feet to 9946 feet.

(4) That the injection should be accomplished through 2 3/8-inch plastic-lined tubing installed in a packer set at approximately 9700 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-

CASE No. 4005
Order No. R-3648

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, Petroleum Corporation of Texas, is hereby authorized to utilize its State HTB Well No. 1, located in Unit D of Section 31, Township 12 South, Range 34 East, NM4PM, East Hightower-Upper Pennsylvanian Pool, Lea County, New Mexico, to dispose of produced salt water into the Upper Pennsylvanian formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 9700 feet, with injection into the perforated interval from approximately 9783 feet to 9946 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

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

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGG, Chairman

GUNTON B. HAYS, Member

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

esr/

Docket: EXAMINER HEARING - FRIDAY - DECEMBER 27, 1968

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

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

- CASE 4005: Application of Petroleum Corporation of Texas for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Pennsylvanian formation in the perforated interval from 9783 to 9946 feet in its State RTB Well No. 1 located in Unit D of Section 31, Township 12 South, Range 34 East, East Hightower-Upper Pennsylvanian Pool, Lea County, New Mexico.
- CASE 4006: Application of Petroleum Corporation of Texas for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the San Andres formation through its Faton Federal Well No. 2 located in Unit N of Section 6, Township 18 South, Range 27 East, Red Lake Pool, Eddy County, New Mexico.
- CASE 4007: Application of Paul DeLave for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete his Bagley State Well No. 1 located in the NW/4 NW/4 of Section 34, Township 11 South, Range 34 East, Lea County, New Mexico, in such a manner as to produce oil from the Bagley-Pennsylvanian Pool and to dispose of produced salt water down the annulus between the production casing and the intermediate casing into the San Andres, G. niense, and possibly other formations in the interval from approximately 7299 feet to 7358 feet.
- CASE 4008: Application of Paul DeLave for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete his Shell State Well No. 1 located in the NW/4 NE/4 of Section 19, Township 11 South, Range 34 East, Lea County, New Mexico, in such a manner as to produce oil from the Uno-Pennsylvanian Pool and to dispose of produced salt water down the annulus between the production casing and the intermediate casing into the San Andres, G. niense, and possibly other formations in the interval from approximately 7374 feet to 7430 feet.

- CASE 4009: Application of Humble Oil & Refining Company for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from approximately 4273 feet to 4329 feet in its New Mexico "BX" State Well No. 3 located in Unit G of Section 16, Township 8 South, Range 33 East, Chaveroo-San Andres Pool, Chaves County, New Mexico.
- CASE 4010: Application of John H. Trigg for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formations through his Empire "J" Federal Well No. 1 located in Unit P of Section 1, Township 18 South, Range 26 East, Red Lake Grayburg-San Andres Pool, Eddy County, New Mexico.
- CASE 4011: Application of Sam D. Ares 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 formation in the open-hole interval from approximately 3520 feet to 3639 feet in his Charles Whitten Well No. 5 located in Unit B of Section 4, Township 24 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.
- CASE 4012: Application of Sam D. Ares for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3602 to authorize the disposal of produced salt water into the Yates-Seven Rivers formations in the open-hole interval from approximately 3363 feet to 3650 feet in his Everett Well No. 4, located in Unit M, Section 35, Township 24 South, Range 36 East, Jalmat Pool, Lea County, New Mexico. The subject disposal well would be in lieu of the Everett Well No. 2, previously authorized for disposal by Order No. R-3602.
- CASE 4013: Application of Redfern Development Corporation and Wil-Mc Oil Corporation for salt water disposal, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the San Andres formation in the interval from approximately 4200 feet to 4300 feet in the Wil-Mc State Well No. 1-K, located in Unit G of Section 11, Township 10 South, Range 32 East, Mescalero-San Andres Pool, Lea County, New Mexico.

CASE 4014: Application of Ralph Lowe for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Lower Devonian formation in the perforated interval from approximately 12,350 feet to 12,455 feet in his "C" Devonian Unit Well No. 1 located in Unit O of Section 16, Township 10 South, Range 36 East, South Crossroads-Devonian Pool, Lea County, New Mexico.

CASE 3991: (Continued and Readvertised)

Application of Roger C. Hanks, Ltd., for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the lower Devonian formation in the open-hole interval from approximately 10,804 feet to 10,885 feet in its Monterey State Well No. 1 located in Unit A of Section 11, Township 10 South, Range 32 East, Mescalero Field, Lea County, New Mexico.

CASE 4015: Application of Wilson 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, Wilson Yates-Seven Rivers Pool, Lea County, New Mexico, through the following six wells:

TOWNSHIP 21 SOUTH, RANGE 34 EAST

Wilson State Well No. 9 located in Unit F of Section 13;

Shell State Well No. 13 located in Unit H of Section 13;

Wilson State Well No. 8 located in Unit O of Section 13;

Wilson State Well No. 20 located in Unit B of Section 23;

Wilson State Well No. 21 located in Unit J of Section 23;

TOWNSHIP 21 SOUTH, RANGE 35 EAST

Wilson State Well No. 1-A located in Unit G of Section 7;

Applicant further seeks an administrative procedure whereby other wells in said pool may be approved for disposal purposes without the requirement of notice and hearing.

Well

PLA I - O - G R A M

gauge

Company Petroleum Corporation of Texas

Well No. 1 Lease State HTB

X			

Sec. 31, 12S, 34E

20,000

Surface Casing 337' with 400 sacks - 13-3/8"

accumulation of water from inhibited

Intermediate casing 9-5/8" @ 4152' with 400 sacks.

2-3/8" plastic coated tubing set on packer @ 9700'.

Packer - 9700'

Perfs 9783-85', 9833-41', 9859-64', 9909-12', 9933-46'

CIBP 9985' with 2 sacks

Perfs 10,132-34'

Perfs 10,171-74'

CIBP 10,174' with 2 sacks

Perfs 10,235-42'

5-1/2" casing at 10,365' with 1770 sacks.

*Boeing
Series
upper
line*

TD 10,365

BEFORE EXAMINATION
BY THE COMMISSIONER
OF THE REVENUE
STATE OF TEXAS
1005

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911
BRECKENRIDGE, TEXAS 76024

December 9, 1968

DEC 11 1968

CM 4005

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

Re: State HTB #1
Unit D, Sec. 31,
12S, 34E, East
Hightower Field
Lea County, New Mexico

Gentlemen:

At your earliest convenience please set for hearing our application to inject produced salt water from the East Hightower Field into the above well as a pressure maintenance project.

Attached are Form C-108 (in triplicate), a diagrammatic sketch, a copy of the electric log, and a plat of the area of the above well.

Very truly yours,

T. A. Ford

T. A. Ford
Manager of Production

PCT/TAF:jde

DOCKET RECORDED

Attachments

Date 12-17-68

cc: Pan American Petroleum Corporation Oil Conservation Commission
Box 68 P. O. Box 1980
Hobbs, New Mexico 88240 Hobbs, New Mexico 88240
Attention: Mr. Al Klarr

Mr. Sam Boren
Vaughn Building
Midland, Texas 75701
Attention: Mr. J. W. Rankin

Stephenson Campbell & Olmsted
P. O. Box 877
Santa Fe, New Mexico 87501
Attention: Governor Jack Campbell

State Land Commissioner
P. O. Box 1148
Santa Fe, New Mexico 87501

State Engineers Office
Capitol Building
Santa Fe, New Mexico 87501



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

OPERATOR Petroleum Corporation of Texas		ADDRESS Box 911, Breckenridge, Texas 76024	
LEASE NAME State HTB	WELL NO. 1	FIELD Hightower, East (Upper Penn)	COUNTY Lea
LOCATION UNIT LETTER <u>D</u> ; WELL IS LOCATED <u>700</u> FEET FROM THE <u>N</u> LINE AND <u>580</u> FEET FROM THE <u>W</u> LINE, SECTION <u>31</u> TOWNSHIP <u>12S</u> RANGE <u>34E</u> NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-5/8"	337	400	Surface	Circulation
INTERMEDIATE	9-5/8"	4152	400	3216	Circulated
LONG STRING	5-1/2"	10,365	1770	5700	Bond Log
TUBING	2-3/8"	9700	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Tension - 9700'		
NAME OF PROPOSED INJECTION FORMATION Penn (Bough A)			TOP OF FORMATION 9797		BOTTOM OF FORMATION 10,067
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing (plastic coated)		PERFORATIONS OR OPEN HOLES? Perforations	PROPOSED INTERVAL(S) OF INJECTION 9783-9946'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Producer		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 10,235-42'; 10,171-74'; 10,132-34' CIBP W/2 sx. 10,174 & 9985					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA Presume 300		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA Wolfcamp 9068		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA Bough C 10,067	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 125	MINIMUM 500	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 2000 max.
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			WATER TO BE DISPOSED OF Penn	NATURAL WATER IN DISPOSAL ZONE Same	ARE WATER ANALYSES ATTACHED? no
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) State Land					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Pan American Petroleum Company, Box 68, Hobbs, New Mexico 88240 Mr. Sam Boren, Vaughn Building, Midland, Texas 75701					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? SURFACE OWNER Yes EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes THE NEW MEXICO STATE ENGINEER Yes					
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)? PLAT OF AREA Yes ELECTRICAL LOG 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.

T. A. Ford

(Signature) T. A. Ford

Manager of Production

(Title)

December 9, 1968

(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 Commissioner'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.

Well PLAN - O - G R A M

Company Petroleum Corporation of Texas

Well No. 1 Lease State HTB

x			

Sec. 31, 12S, 34E

Surface Casing 337' with 400 sacks - 13-3/8"

Intermediate casing 9-5/8" @ 4152' with 400 sacks.

2-3/8" plastic coated tubing set on packer @ 9700'.

Packer

Perfs 9783-85', 9833-41', 9859-64', 9909-12',
9933-46'

CIBP 9985' with 2 sacks

Perfs 10,132-34'

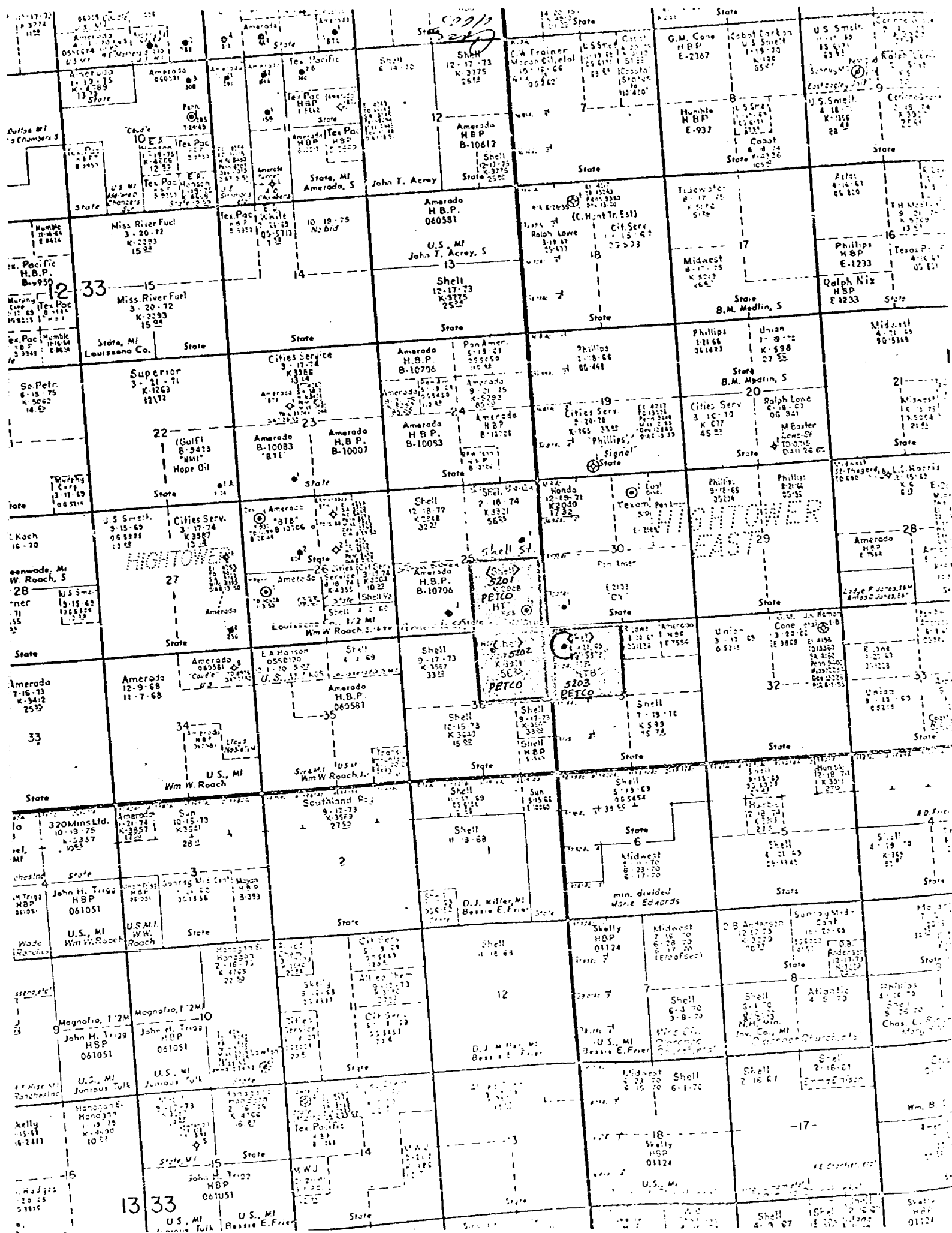
Perfs 10,171-74'

CIBP 10,174' with 2 sacks

Perfs 10,235-42'

5-1/2" casing at 10,365' with 1770 sacks.

Case 4605



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. 4005

Order No. R- 3648

APPLICATION OF PETROLEUM CORPORATION
OF TEXAS 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 December 27, 1968,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this day of December, 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, Petroleum Corporation of Texas,
is the owner and operator of the State HTB Well No. 1
located in Unit D of Section 31, Township 12 South, Range
34 East, NMPM, East Hightower-Upper Pennsylvanian Pool, Lea
County, New Mexico.

(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the upper Pennsylvanian
formation, with injection into the perforated interval
from approximately 9783 feet to 9946 feet.

(4) That the injection should be accomplished through
2 3/8-inch plastic-lined tubing installed in a packer seal at

approximately 9700 feet; that the casing-tubing annulus should be 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, Petroleum Corporation of Texas, is hereby authorized to utilize its State HTB Well No. 1 located in Unit D of Section 31, Township 12 South, Range 34 East, NMPM, East Hightower-Upper Pennsylvanian Pool, Lea County, New Mexico, to dispose of produced salt water into the upper Pennsylvanian formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 9700 feet, with injection into the perforated interval from approximately 9783 feet to 9946 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus ~~or the annulus left open~~ at the surface in order to determine leakage in the casing, tubing, or packer.

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

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

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

Petr. Corp. of Texas Breckenridge

SWD

Wolfcamp formation perf int
9783 to 9946

State H T B Well No 1
East Hightower-Pennsylvanian

Sec 31 Twp 12S 34E

Rea Co.

Jack
Campbell

DOCKET MARKED

Dec

1/2/21