CASE 4689: Appli. of PETROLEUM CORP. OF TEXAS FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED.

Case Number 4689

Application

Trascripts

Small Exhibits

ETC.

CASE NO. 4689

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO MAY 5, 1972 EXAMINER HEARING IN THE MATTER OF: 6 7 Application of Petroleum Corporation of Texas for an exception to Order No. R-3221, as amended, Eddy County, 8 New Mexico. 10 BEFORE: Elvis A. Utz 11 Examiner

TRANSCRIPT OF HEARING

SPECIALIZING IN: DEPOSITIONS, MEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 209 SIMMS BLDG.* P.O. BOX 1092 *PHONE 243-6691**ALBUQUERQUE, NEW MEXICO 87103 FIRST NATIONAL BANK BLDG. EAST*ALBUQUERQUE, NEW MEXICO 87108

12

13

14

15

16

17

18

19

21

22 23

25

24

15

16

17

18

19

20

21

22

23

24

25

MR. UTZ: Case 4689. MR, HATCH: The Application of Petroleum Corporation of Texas for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. MR. CAMPBELL: Mr. Examiner, Jack M. Campbell, attorney from Santa Fe, New Mexico, representing the Applicant. I have one witness, Mr. Ken Freeman. KENNETH FREEMAN, 8 was called as a witness and, after being duly sworn, testified as follows: 10 MR. UTZ: Any other Appearances in this Case? 11 (No response.) 12 MR. UTZ: You may proceed. 13

DIRECT EXAMINATION

BY MR. CAMPBELL:

Will you state your name, please?

Kenneth Freeman.

Where do you live, Mr. Freeman?

Midland, Texas.

By whom are you employed?

The Petroleum of Texas.

In what capacity?

District Superintendent and Petroleum Engineer. A

What is your professional background?

As a Petroleum Engineer, I graduated from the University A

of	Texas	and	I	have	worked	primarily	along	the	Gulf
Coa	ast.								

- Have you testified before this Commission previously?
- A Yes, I have.

MR. CAMPBELL: Do you want any further qualifications?

MR. UTZ: The witness is qualified. I will ask

your last name again.

THE WITNESS: Freeman, F-r-e-e-m-a-n.

- Q (By Mr. Campbell) Are you acquainted with the properties owned by your Company and generally, with the other properties in the Grayburg-Jackson Pool in Eddy County, New Mexico, particularly Section 20, Township 17 South, Range 30 East?
- A Yes, I am.
- Q Did you testify before this Commission previously seeking an exception to Order Number R-3221?
- A Yes, I have on two different occasions.
- Q Can you give the Examiner a very quick review of the history of this pool in terms of how long it has been in production and the nature of the early drilling programs, and so forth?
- A Well, this old pool was drilled in the early thirties, primarily the bulk of the development and drilling was with cable tools as well as rotary tools and the reason we are asking for this exception is there is no fresh

TORS	80	
X, COX < EX	XICO 871	
SPRCIALIZING IN: DRPOSITIONS, MRARINGS, STATERENTS, EXPERIT TESTINGEN, DAILY COPY, CONVENTIONS	209 SIMMS BIDG. P.O. BOX 1092 PHONE 243-66916 ALBUQUERQUE, NEW MEXICO 87103	87108
ESTINONY,	UERQUE,	FIRST NATIONAL BANK BLDG. KAST + ALBUQUKRQUK, NKW MEXICO 87108
EXPERT 4	1 CALIBUQ	MZ HOO
LIENERIS,	E 243-669	
KRINGS, ST.	NOTES	EASTOA
AIONS, AE	. 30X 10	K OLDG.
N. DEPOS	0.9 DG.	NAC DAN
CIALIZING	SIMMS BL	OT NATIO
N A	209	Ĕ

	. 3		of produced water in this area?
	4	A	Yes, we have.
	5	Q	For what wells?
	6	Α	One well was the Flint, located in Unit "M", Section
	7		14, 17, 30. The other well was the Dexter J located
	8		in Unit "J", Section 22, 17, 30.
	9	Q	I will hand you what has been identified or refer to
	10		what has been identified as Applicant's Exhibit Number 1,
	11		and I will ask you to state what that is, please.
4VENTIONS 87103	12	A	It is a generalized plat showing the area with a three
GOPY, CONVE	13		mile circle around the subleases we are trying to
EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 16 ALBUQUERGUE, NEW MEXICO 67105 10 U.E. NEW MEXICO 67108	14	-	obtain approval for.
DNY, DAI	15	Q	How are the leases identified on this plat, the leases
TESTINONY, D	16		you are seeking approval for?
EXPERT 10 A L B C	17	A	They are outlined in red with hash marks.
STATEMENTS, ONE 243-669 • ALBUQUER	18	Q	What other wells are identified on that plat?
	19	A.	What I have done is selected a typical log from the
HEARINGS, 1002 o P H 3G. EAST	20		Dexter J located in Section 22. The reason for this
POSITIONS, H	21		is from the surface down, it is a complete lcg and the
	22		other wells that have triangles around them are subject
CIZING I	23		wells and the other wells that we have logs on.
SPRCIAL 209 SIN FIRST	24		We have correlated these altogether and made a
	25		generalized section for the area.

water in the area that I am aware of.

Have you previously obtained approval for the disposal

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

209 SIMMS BLDG. & P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE. First national bank bldg. East • Albuquerque. New Mexico

Q	I am going to ask you to refer to what has been
	identified as Applicant's Exhibit Number 2 and ask
	you to state what that is.

- It is a well log on the Dexter 15, located in Section Λ 15, 17, 30. The main thing this shows is there is no fresh water that we can detect.
- Referring to what has been identified as Applicant's Q Exhibit 3, I will ask you to state what that is, please.
- It is also a gammaray neutron log of the Federal Well A Number 3 located in Section 20, and it is drawn with the various tops of the salt beds located on the log.
- I refer you to what has been identified as Applicant's Q Exhibit 4 and ask you to state what that is.
- This is a log on the Dexter J located in Section 22, 17, 30, and that is what I have used, or have called the typical log because if you note, it goes from the surface on down and is the best log that we have.
- Have you, Mr. Freeman, carefully examined all of these Q. logs?
- Yes, I have. A
- In your examination, have you found any indication of Q any bed which might bear fresh water and which is reflected in the logs?
- No, I haven't.
- I refer you now to what has been marked as Exhibit 5 Q

dearniev-meier 🕾

2

3

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q

Α

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, BAILY COPY, CONVENTIONS
209 SIMMS BLDG. P.O. BOX 1002 PHONE 249-6691 PABUQUERQUE. NEW MEXICO 67103
FIRST NATIONAL BANK BLDG. EAST PALBUQUERQUE, NEW MEXICO 87108

A This is a stratographic section that has been made up from these various logs and from Well Number 3 that is located in Section 22 and that was a cable tool hole and we have not noticed any water bearing sands.

and ask you to state what that is, please.

Q I will refer you now to what has been marked Applicant's Exhibit 6 and ask you to state what that is, please.

A This is a copy of the individual well tests. You will notice the date, the barrels of oil and water that the wells make, and these are all marginal wells.

The Dexter 15 is three and one-half barrels a day with ten barrels of water.

The Jenkins B is nine barrels of water per day.

What is the total amount of water reflected as being produced from these five wells?

About eighteen to nineteen barrels of water per day,

Q What is the total amount of oil, approximately?

A About seventeen barrels of oil.

Q Have you -- well, let's move on and I will ask you to look at what has been identified as Applicant's Exhibits 7 and 8, and ask you to state what those are, please.

A These are just water analyses which we took at the wellhead and had a surface company analyse the water.

Q What do they reflect in terms of the quality of the water?

	2	Q	Is it potable water?
	3	A	No, it is salt water.
	4	Q	Now, have you made inquiries as to the alternative
	5		for disposing of this water, other than disposing of
	6		it in unlined pits?
	7	A	Well, on the Dexter Federal J, which is located in
	8		Section 22, we, at one time, hauled water from the
	9		gathering tank and the resulting cost was twenty-five
	10		cents per barrel.
	11	Q	Would that additional cost and, considering the marginal
 	12		nature of these wells, would it be economical for you
	13	_	to follow that procedure and still operate the wells?
	14	A	No, it would not.
	15	Q	So that you would have to abandon the wells unless you
	16		found some other choice, or disposition of this water?
	17	A	Either that or shut the majority of them down.
	18	Q	Do you believe that if you are permitted to dispose of
!	19	-	this water in unlined pits, such as are shown in Order
	20		R-33-321, that there will be any risk of damage to any
	21		fresh water, potable water in the area?
	22	A	I do not because, to my knowledge, there is not any
	23		fresh water in this area.
· !	24		It is being piped in to the local Hill Town site
	25		to my knowledge, and there are no windmills in the

Just breakish, saline type of water.

3

5

6

7

9

10

11

12

13

15

16

17

18

19

20

21

22

23

24

25

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPT, CONVENTIONS 209 SIMMS BLDG.*P.O. BOX 1092.*PHONE 243-6691.*ALBUQUERQUE, NEW MEXICO 67103 FIRST NATIONAL BANK BLDG. EAST *ALBUQUERQUE, NEW MEXICO 87108

general area.

- Q Is there any indication to you that, should you be permitted to do this, that the correlative rights of the other producers in the area would be in any way adversely affected?
- A Not to my knowledge.

MR. CAMPBELL: Mr. Examiner, I would like to offer Applicant's Exhibits 1 through 8.

MR. UTZ: Without objection, Exhibits 1 through 8 will be entered into the record of this Case.

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

MR. CAMPBELL: That's all I have, at this time.

MR. UTZ: Any questions of the witness?

CROSS-EXAMINATION

BY MR. PORTER:

- Q Did you testify as to the proximity of any fresh water wells in this area?
- A Would you restate the question.
- Q How close are your wells here to any fresh water wells in the area?
- I don't know of any fresh water wells in the area.

 I mean, we have looked around and there are no windmills,
 that I know of.
- Q You said that, within a two or three mile radius, that

SPECIALIZING INI DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 209 SIMMS BLDG. * P.O. BOX 1092 *PHONE 243-6691 * ALBUQUERQUE, NEW MEXICO 87109 First national bank blog. East * albuquerque, new mexico 87108

23

24

25

-10 you don't have any fresh water wells? 2 Α That is correct. Our information man has said that south of Loco Hills, about four or five miles, he knew 3 of one windmill and that is the closest I know of. How does Loco Hills get fresh water? 5 It is piped in from Tap Rock, as far as I know. 6 MR. PORTER: That's all I have. 7 CROSS-EXAMINATION 8 BY MR, UTZ: 9 Did you make a thorough search as to fresh water in 10 the area in a three mile radius around each site? 11 Yes, we have. 12 MR. UTZ: Any further questions? 13 (No response.) 14 MR. UTZ: If not, the witness may be excused. 15 (Witness excused.) 16 MR. UTZ: Any statements in the Case? 17 (No response) MR. UTZ: The Case will be taken under advisement.

3

5

6

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

STATE OF NEW MEXICO SS COUNTY OF BERNALILLO)

I, RICHARD E. McCORMICK, a Certified Shorthand 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.

b do hereby earnify that the following Ik a complete many thor of

. Kurendar New Merico Cil Conservation Comission

25

 $\overline{\mathbf{I}}$ $\overline{\mathbf{N}}$ $\overline{\mathbf{D}}$ $\overline{\mathbf{E}}$ $\overline{\mathbf{X}}$

 $\underline{\mathbf{E}} \ \underline{\mathbf{X}} \ \underline{\mathbf{H}} \ \underline{\mathbf{I}} \ \underline{\mathbf{B}} \ \underline{\mathbf{I}} \ \underline{\mathbf{T}} \ \underline{\mathbf{S}}$

PAGE

3

10

\$ 35. <i>L</i>)
£ 00	
سيارات والمعا	
.	
(
6:3	
Lond	
CLD	
)	
a	
.=	
حه	
=	
>	
9	•
9	
=	
æ	
حت	

WITNESS:

6

9	APPLICANT'S (Petroleum Corp.)	OFFERED	ADMITTED
10	Exhibit Number 1	5	9
11	Exhibit Number 2	6	9
12	Exhibit Number 3	6	9
13	Exhibit Number 4	6	9
14	Exhibit Number 5	6	9
14 15 16 17 18 19 20 21	Exhibit Number 6	7	9
16	Exhibit Number 7	7 %	9
17	Exhibit Number 8	7	9
18		,	
19			
20			
21			
			*
23			
22 23 24			
25			·

KENNETH FREEMAN

Direct Examination by Mr. Campbell

Cross-Examination by Mr. Porter

Cross-Examination by Mr. Utz

dearnley-meier repor

8

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

SPECIALIZING IN DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 209 SHAMS BLDG. & P.O. BOX 1092 & PHONE 245-66916 A L'EUQUERQUE, NEW MEXICO 87103 First national bank bldg. East-albuquerque, new mexico 87108 MR. NUTTER:

Call case number 4689.

MR. HATCH:

Case 4689. Application of

Petroleum Corporation of Texas for an exception to order number R-3221, as amended, Eddy County, New Mexico. The Commission has received a request from the applicant that the case be continued to the Examiner hearing to be held May the 5th.

MR. NUTTER: Case number 4689 will be continued to the Examiner hearing to be held at the same place, nine o'clock a.m., on May 5th, 1972.

dearnley-meier regerie

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 209 SIMMS BLDG. # P.O. BOX 1092 #PHONE 243-6691# ALBUQUERQUE, NEW MEXICO 87103 FIRST NATIONAL BANK BLDG. EAST #ALBUQUERQUE, NEW MEXICO 87103

COUNTY	OF	BERNAI	LILLO)	ss.		
	I,	LINDA	MALONE, a	Certif	ied	Shorthand	Reporte

)

STATE OF NEW MEXICO

I, LINDA MALONE, a Certified Shorthand Reporter, 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.

Linda Malone CERTIFIED SHORTHAND REPORTER

to belieny strictly that the foregoing to a complete reduced of the perfections in the lineariest hearing of Case to 4667, nearly by me on 15 72.

Rab mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 8750)

May 11, 1972

BRUCE KING CHAIRMAN AND COMMISSIONE

GOVERNOR

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

Honorable Jack M. Campbell	Re:	Case No	4689	
Campbell, Olmsted, Cohen &		Order No.	R-4295	
Bingaman Attorneys at Law		Applicant:		
Post Office Box 877 Santa Fe, New Mexico		Petroleum	Corporation of	' Texas
				-
Dear Sir:		- d - 5	1	
Enclosed herewith are two cope Commission order recently ente				
Ve	rv tr	uly yours,		
		L. Porte	v, Q,	
A.	L. P	ORTER, Jr. ry-Dir e ctor		
		•		
ALP/ir				**
Copy of order also sent to:				
Hobbs OCC X		A second		
Artesia OCC x			•	,
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. 4689 Order No. R-4295

APPLICATION OF PETROLEUM CORPORATION OF TEXAS FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 5, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 11th day of May, 1972, 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 certain leases in the Grayburg-Jackson Pool comprising the NW/4 SW/4 of Section 15, and the NW/4 of Section 20, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico.
- (3) That Order (3) of Commission Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions, of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any other place or in any manner which would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.
- (4) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.

-2-CASE NO. 4689 Order No. R-4295

- (5) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.
- (6) That the applicant seeks an exception to the provisions of the aforesaid Order (3) to permit the disposal of salt water produced by applicant's Dexter Federal 15 Well No. 1, located in Unit J of said Section 15 and its Jenkins Wells Nos. 1, 2, 3, and 4, located in the NW/4 of said Section 20 in unlined surface pits on said leases.
- (7) That the applicant has recently completed the Dexter Federal 15 Well No. 1, located 1650 feet from the South line and 1650 feet from the East line of said Section 15 as a producing well in the Grayburg-Jackson Pool.
- (8) That the Dexter Federal Well produces approximately ten barrels of water per day and the four Jenkins wells produce approximately nine barrels of water per day combined.
- (9) That there appears to be no shallow fresh water in the vicinity of any of the above-described wells for which a present or reasonably foreseeable beneficial use is or will be impaired by contamination from unlined surface pits located in the vicinity of said wells.
- (10) That the applicant should be permitted to utilize unlined surface pits for the disposal of salt water produced by the above-described five wells.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Petroleum Corporation of Texas, is hereby granted an exception to Order (3) of Commission Order No. R-3221, as amended, to dispose of water produced in conjunction with the production of oil or gas, or both, by its Dexter Federal 15 Well No. 1, located in Unit J of Section 15 and its Jenkins Wells Nos. 1, 2, 3, and 4, located in the NW/4 of Section 20, Township 17 South, Range 30 East, NMPM, Grayburg-Jackson Pool, Eddy County, New Mexico, in unlined surface pits located in the vicinity of said wells.
- (2) That the Secretary-Director of the Commission may by administrative order rescind such authority whenever it reasonably appears to the Secretary-Director that such rescission would serve to protect fresh water supplies from contamination.

-3-TCASE NO. 4689 Order No. R-4295

(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

BRUCE KING. Chairman

ALEX J. ARMIJO, Member

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

SEAL

(Case 4683 Continued)

seeks the creation of a new pool for the production of oil to be designated the Metts Permo-Pennsylvanian Pool for its three wells located in Unit L of Section 29, Unit P of Section 30 and Unit D of Section 32, Township 14 South, Range 34 East, Lea County, New Mexico. Applicant further seeks the promulgation of special rules for the pool including a provision for 160-acre spacing and proration units.

CASE 4684:

Application of The Petroleum Corporation for creation of a new gas pool and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for its Tenneco Federal Well No. 1 located 990 feet from the South line and 2310 feet from the West line of Section 12, Township 26 South, Range 37 East, Lea County, New Mexico. Applicant further seeks the promulgation of special rules therefor, including a provision for 640-acre spacing and proration units.

CASE 4689:

Application of Petroleum Corporation of Texas for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, to dispose into unlined surface pits water produced by its Dexter Federal Well No. 15 located in Unit J of Section 15, and all of its wells located or to be located in the NW/4 of Section 20, Township 17 South, Range 30 East, Grayburg-Jackson Pool, Eddy County, New Mexico.

CASE 4685:

Application of Fluid Power Pump Company for two nonstandard oil proration units, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks approval for two 160-acre non-standard oil proration units in Township 19 North, Range 3 West, Media-Entrada Oil Pool, Sandoval County, New Mexico, comprising the following-described acreage:

- 1. S/2 SW/4 of Section 14 and the N/2 NW/4 of Section 23;
- S/2 SE/4 of Section 15 and N/2 NE/4 of Section 22,

OLMSTED, COHEN & BINGAMAN

ATTORNEYS AT LAW

CHARLES D. OLMSTED SAUL COHEN JEFF BINGAMAN

March 16, 1972



P. O. BOX-877 SANTA FE, NEW MEXICO 87501 TELEPHONE (505) 982-3595 JACK M. CAMPBELL, OF COUNSEL

but "

New Mexico Oil Conservation Commission Attention: Mrs. Ida Rodriguez State Land Office Building Santa Fe, New Mexico 87501

Re: Application of Petroleum Corporation of Texas for Exception to Order No. R-3221, as amended, Eddy County, New Mexico

Dear Ida:

As I stated on the phone yesterday, we would like to have the hearing on the Application of Petroleum Corporation of Texas, postponed untilithe May 5 hearing of the Commission. Would you please continue the matter to that date and notify us accordingly.

Enclosed you will also find our Application for Exception. If we have omitted anything from the Application which is required at this time, please let me know.

Thank you for your help.

Sincerely,

JB:sw

j∈ff/Bing¢m¢n

cc: Mr. Ken Freeman

Petroleum Corporation of Texas

/ Enganan

DOCKET IN THE D

DOCKET MAKELD

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. 4689

APPLICATION OF PETROLEUM CORPORATION OF TEXAS FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED, EDDY COUNTY, NEW MEXICO

APPLICATION FOR EXCEPTION

Applicant, Petroleum Corporation of Texas, by and through its attorneys,

Jack M. Campbell and Olmsted, Cohen & Bingaman, hereby makes application

for an exception to New Mexico Oil Conservation Commission Order No. R-3221,

as amended, and in support of said application states:

- 1. Applicant is the owner and operator of a well designated Dexter Fed
 15, Unit J, Section 15, Twp. 17-S, Rge. 30-E and four wells designated Jenkins
 1, 2, 3, and 4, in the NW \(\frac{1}{4} \), Section 20, Twp. 17-S, Rge. 30-E, all in Eddy
 County, New Mexico (see copy of plat attached).
- 2. New Mexico Oil Conservation Commission Order No. R-3221, as amended, prohibits the disposal of water produced in conjunction with the production of oil and gas into unlined surface pits in this area of the state.
- 3. Applicant desires to dispose of produced water from the wells mentioned above in order to facilitate production of oil and gas.
- 4. There is no shallow fresh water in the vicinity of the proposed pits for which a present or reasonably foreseeable beneficial use is or will be made that would be impaired by contamination from the proposed pits.

WHEREFORE, applicant requests the Commission to enter its Order granting applicant an exception to Order No. R-3221, as amended.

FROLEUM CORPORATION OF TEXAS

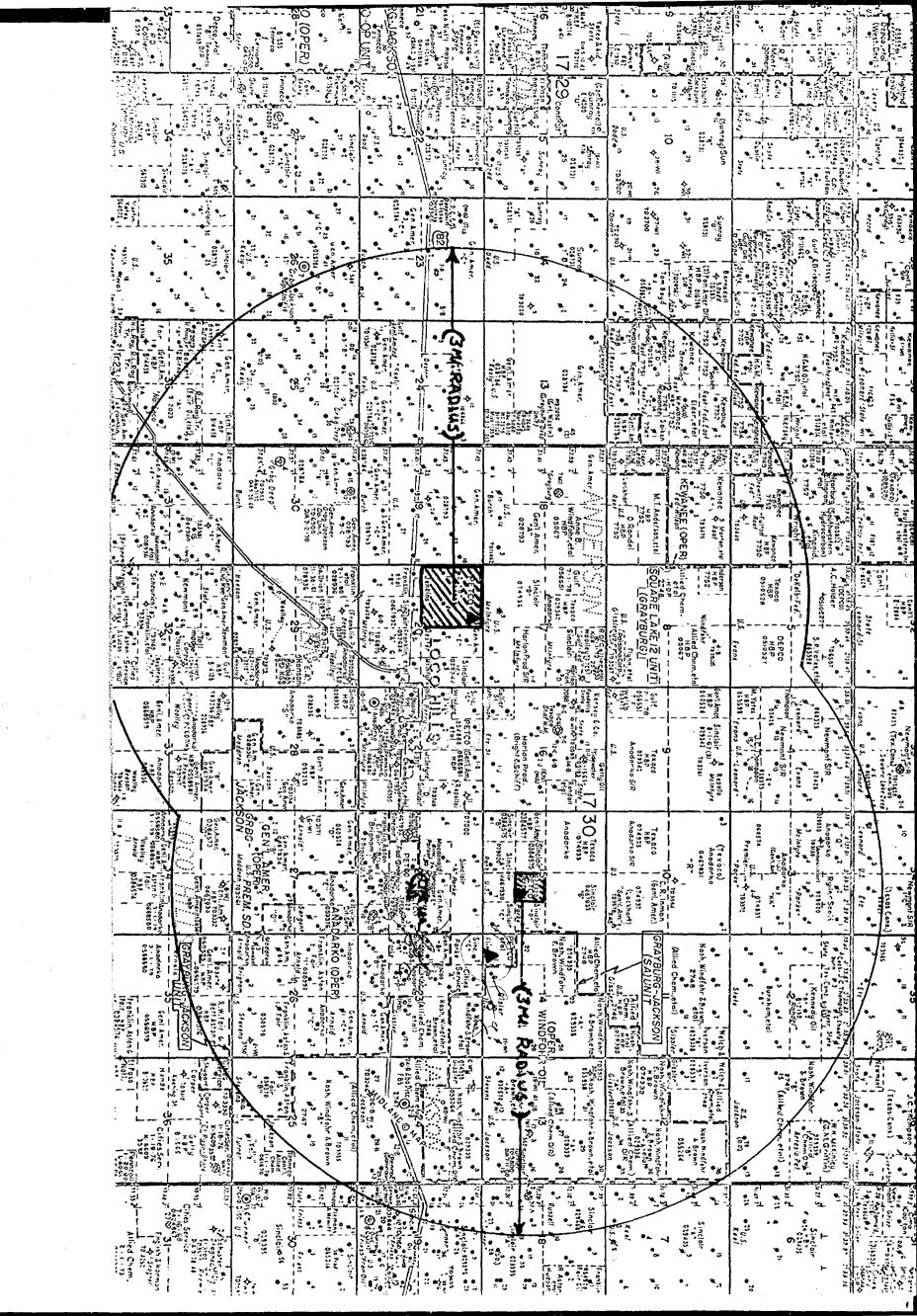
Jack M. Campbell and Olmsted, Cohen &

Bingaman, Attorneys for Applicant P. O. Box 877

Santa Fe, New Mexico 87501

heonord Sunstead	Gates Pet)	to Yares Fel.	Sinl Amir 1 (Shell)	Snell #197 2-1-72 Tennero 18	To age to the second	73573
2334 (//	4 - 1 - 7(9) 055 95 35 UNI HUDOLENS	4 - 1 - 26 H.Smith 0559535 Books Fest	Penasco	0221908 (TenssCens.)	Francisco Company of the Company of	To selection of
7:16: Fet. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Geer Feet Harrie			OC Thompson	Fernes 2 Stallworth	varyer Varyer
SOVARE	aun _a ,	Leanard Nunice ** 1 13 34 3	(Shell) a Gen Amer. Openios 119185	26 Jenneca)	reans Pallworth	Const.
Trees ILAKE 31	ostoji este Kes	Yofes Texto Petr. HAP	पर्वतहत्त्व,त्रज्ञ	James feet Latin-party	Ryder Scott, of Capacia Ryder Scott, of Terrors (In) Malence Feet (Terrors (In)) State (In)	registr.
Harris Propertions	(/ S. \$55) (1 \$1 \$2 \$2 \$2 \$2 \$2 \$2 \$	Taxas Cons Wewmont	(Teres Cons.)	distores A N Ear is weden!	103224 5 %	(SC FC3 - 70
tenterining of the control of the co	1917 18:316 Newmont S/R	JC Thompson JC \$1488 Sanders Thomps I	# 07 #5 ** #2427 'L' Newmont S/R	Newmont (teres Cans) Thompson	[memiss	And
	₩ ₁ • ² 1	Tables a L. Son a la l	الأنو أه وكو اله	1 111111 1 15 154	Conff. Iteles State	".
precol		Neamont S/R	34 Newmont SIR	35 31 ₆ 3 -4 -41 -411	JC Thompson	Coo lan
3 - 1000253	इंबर्गी हैं हैं है	stats (Tex Cond - 2216)	(Texas Cons.)	ring Serg	(Texas-Cans.) Cyceeban	Assist Sever
10 11 111 12 12 Cetars for	e esce i (eonord-5) [112, 119 is 3 32 is 213 is 1	Evans US. Leanard	121 201 113 475 12 12 12 12 12 12 12 12 12 12 12 12 12		51374 Jackson 3fold janotte.	deile Geografia
metorburg (Southwestern	A.C.Holder + 136597	33 51 6 33 51 3 3 5 6 2 3 3 7 7 7 8 8 8 8 8 9 7 7 7 8 8 8 8 9 8 9 8	Anadarka Ryier Scoti	Stole Ter Court Piller State Stole Ter Court Piller State Stole Ter Court Piller State	WH Mekinley	≱ 1
33 3 607 Kincoid 33 4 7152 Kincoid 63 1 7152 Gillia "Wright"	3 P.Yates,etal (1333)		Mc 'nhare 1 Parker	i Kennedy Oil	Mosh Windfahr (Allied Stewn Drie	હેશ ફ્રી •ઘ
Remailee	Texaca DEPCO	Thomeson	Anadorko	2 Rez de	Artesia Peh 15 (Allied Chem. elat) 418	193 d
7752 Kenance 749 7752 Hap 749 Turing Fullon 7750	HBP HBP 05:0528 05:0527	Tryates - J.C. Thompson 151	\$61524	Barnham etat		उत्तर हो
113113	U.S. Erens	ESSSE Evons U.S Leonard	Premieriy - 4 193372 Pages	State	Jeckson (0.0)	11 en 1
7573 Xewance & Variancia 2 753 7750 133175	Windfahr .	66n7 Jenet Sineteir & Repollo KBP 6-1-67(3) Velatyre 66526 823261 103161	e3 (Texace) e2 Anadorko	Nach western to herson	Nelch & dilied 36 Person 2748 Nezh Niedfehr 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 ¹ 4
THE TOPER	Allied Chem. Socz	10311	0461531 "R" I	2748 etal 1829334	1 4 1 1 1 1 1 1 1	
SN3 M.T. Andersen, etal	8	Sulf 1 Texaes	Texaco (Gent. Amer.)	(Allied Chem. eto) (Sissier, GRAYBURG-JACKSON)	North-Windfahr Zwash Wash	J1 7 J
7752 10 7752	ISQUARE LAKE 12 UNITI	r 1-78 HSP P	NAP	(SA)UNIT	074539 37 A E G] (
O Randel O Randel	U.S. Flynn, atet Gissier 1032er 4 ³	Anadarka S/R Z	Anodorko SIR (Lackhert) Sen'L Amre, 10318 gas	Allied Nosh, Ichem. etol U.S. Hap Gissfer 2746 529338	Nash Windfahr & [Attied Chem] Brown etglss i DIRss Gissier ####################################	ءُ ءُ
Sen. Amer A A A	RD Courier ou less of the state	Karsey Co. Indender 7	30 34.	Allied Chemietor Nash, Windfahr HBP & Brown, eta		Sinclei
Anne 8.	Guif Texaco Sinclein Stran 7-1-78 188 Sinclein Stran 056551 025321	Farsey & Co. 15 decodes 7 2-166:3 12 87/3-15555 17 2-166:3 12 87/3-15555 17 2-166:3 166:3	Anodorko	11(1)15 23 11(5)11	25 [11111	Ten 7
7 161 () 05067 6 18	Anodorkol Welstyre	Staff M. [62] (Et)	Sen Arel Sincial Tax Saga Vinciair	EBrown (OPER	(Allied Chem O/P)	Ausseil In to at
028793	Harlanfred SIR	J.L.Harlan	oie (STT	22 29 21 PETCO 11:301	Resh, Windfohr E. Brawn, et al. 10,000	(3)
145 at - U.S. 614 65	# UN 3	Collect 12 12	Sincteir Sincteir Sincteir 0384575 029023 1467930 167 12	0.19 19	Brenn, etal 10 3800 12 10 3800 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	11.3
749 Gen Amer.	PETCO GENAM	Sing of all all all all	5 65 62 61 103000	Sinc. 2 1 8 Ballash, of Cities of Windfahr & Brown	sw ₂ -22 •5 •4 •3	3: 11 T
14 1 141131 II	leafing	Acidia 1 192	'A' Forke	Parke IServicely	Nosh Windight & Brawn Die	i is i
7777 149 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Jeneins Deine wenter	delaisa D	22 Pico 2	Brann, et al. 2746 2746 2746 2746 2746 2746 2746 2746	Attied Chem elo24	
2	E101 E -057614	And the second of the second o	PETCO PILE SI	Brannetol 2748 19 11 2 2748 19 12 2748	Allied them et 2 4 1 2 2 2 4 8 Aba Disc Ol 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 Sa) 4 18 1
7.41 41 613 1 6 3 G en Amer.	2 100 10 Cals	O'Aroding Village	PETCO STATE OF THE	3 knodorko dinamer.	27 26-8 W 5 28 8 13	G.
725184 8wech 024783	Feirelat (Franklin 29 (Autoroft) HB7 (1981)	10-1-71 9; Weintyre Veinfgre Sincloie 31 Gen.Amer.	Gen Amer. 4 Silve 4	Anadarka Gen Amer.	(Allied Chem, etal)	51 of 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IB Gen.Amer. Gen.Amer.	E 11-11-11-11-11-11-11-11-11-11-11-11-11-		069510 Anodorko ANAC TO 3171 S	ARKO (OPER) Arnald	Nash, Windfahr & Brown	Tenned Pleman E Henit Itas E _ 4
91 91 91 91 91 91 91 91 91 91 91 91 91 9	ozesse Alansen	011316 4' 4 7"	TO 3171 G-WI 2 Surgent	Accord to also	o ⁸ y ⁵ , ole 2747 ole	State Friese
Og	8 1.18 8 1.18 1.18 1.18 1.18 1.18 1.18	Gen Ann	Gen Amer.	Gen Amy Franklin Aston &	Fair Jackson Chem.	S 25 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
57 65'- 2 to 79 53 Abo 717 t 045 21 61	Gen. Amir. (n. 12-17-12) (n. 12-17-12) (13-11-12)	Gen Am. o'tGen o'		Videred 930576	Bu rella	₩0. □ ₩₹ 10.63 5:50 €
Burch 1767 r	Bush and Inches	36.35	8' 92 (SWI) 1-49"	Arnato Orighamy 5 Stavans 3750	Cities 170 3330 CitiesSer, Odessp	Hora Siso (
Anadarko Gerkmer	14.	TI 3256 fich & Gen Amen	0384573	Gent Amer. ABP	Shugari Shigarin El Pasa State	59 7
37:13, 31 . 1935. W	Newmont Carses 1	Anadarkal Gent Amer. Ognes (*PCEA) 11 F Pramer Woolley 733197 Sesson		GRAYBURG JACKSON	Carper Gelfy 4 12144 HRP Keening St. The	Cities :
40, Amer. Jandorka Newmon	Scheurich (Station of	Seril, Amer. Anadorko	Anadarka (eri jar jeranki alanodarko	3 - 1 - 79	Handa Cities Serv.	- 11 14 24 51 68
Jun 24 15 1 1 1 21 22	Fig. 12 2334 Cifies	menteg Resser	Wisi'es 1901 George	Transfer Island	El Poso X 6009 El Poso X 8009 X	k <u>æ</u> æ
gt Beesen Buggt Brigeren		V. 12.615.05	Car dea lan ten	If air all and a second and a s	1627 4 4226 NATE 2 42 64	(1) 51 2 14 10
्र का अपूर्व स्थापना स्थापना विकास स्थापना विकास स्थापना विकास स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्थापन	Newmont (etas)	Franktin, Asten & Feir, etai	franklin kitan Ffair, etoi MBF	НВР	40.20 a 40.20 3' 4012 2' 40.00 . Bab Johnsan 10.1. 941833	APCO
Verstand 1 gid	rasses Hetanting		CHSS	E-TAIL	† • • • • • • • • • • • • • • • • • • •	1376 3 0 1918 1876 3 0 1918
1 Newmont 021095	Copiege -5- 12 2 (873)	4	- 3	alen feathersfane 2 John Yates	Hiram I Forrer I	3) is d
Nowment 5;4 - £0351				6-7011 B-1010	035926 L	2 · 1 · 73 033 4 702 15 97 7
V.S. Tom Bourd	u s	U.S. 4 ersen	g.S.	Hendo H B P State E-74:1	franklin Astan & Fair H B P 31/336 y.s.	US
1501			<u>.</u>			290 10.05

Casi 4689



LOCO HILL, N. MEXICO Stratigraphic Section Type Log DEXTER FEDERAL NO. 1-J J, 2310 FSL, 1650 FEL, Sec. 22, T-17S, R-30E Eddy County, New Mexico

FORMATION RECORD

	FROM'	TO	TOTAL FEET	FORMATION
	. 0	50	50	Alluvium with some Red Beds exposed at surface
	50	340	290	Red Beds & Anhydrite stringers (Dockum Group)
	340	420	80	Anhydrite
· · · · · · · · · · · · · · · · · · ·	420	1155	735	Nearly solid salt w/some Anhydrite & Red Bed streaks
	1155	1350	195	Anhydrite, some Red Shale
	1350	2300	950	Anhydrite, Red Shale & Sand, & Dolomite
	2300	2730	430	Sand, Shale & Anhydrite
	2730	3100	370	Dolomite & Sand
į	3100	4550	1450	Dolomite
· Prince of the	4550	6650	2100	Dolomite, Sand, Grn. Shale & Blk. Shale
	6650	6900	250	Dolomite & Grn. Shale
	6900	6997	97	Reef Dolomite

Cable tools were used from 0 feet to 1415 feet.
Rotary tools were used from 1415 feet to 6997 feet.

The above Formation Record is based on GR/Neutron-Acoustic, and sample descriptions of the following wells:

Dexter No. 1-J, Section 22-17-30, Eddy County, New Mexico (Type log) Dexter No. 1-15, Section 15-17-30, Eddy County, New Mexico T.D. 3511*

Dexter No. 3, Section 22-17-30, Eddy County, New Mexico

Jerkins No. 3, Section 20-17-30, Eddy County, New Mexico T.D. 3237*

Flint "B" No. 1, Section 14-17-30, Eddy County, New Mexico

^{*}GR, or GR/N Log Attached

DATE	OIL BBLS.	WATER BRLS.	STROKE LENGTH OR	PUMP OR CHOKE SIZE	S. P. M. OR CASING PRESSURE	REMARKS
3-26-72	3.46	19	28"	2718710	14	24hr test Dexter Fed. 15-#
P-24	2.24	5.85	28"	2% 16 x 10	14	24hr. test Jenkins B#1
\$-2 \$		3/	18" 2 is pumpe	2218210 1 twice		24 hr. test Jenkins B#2
3-25	4.68		26"	27.13 × 16		24hr. tost Jenkins B#3
8-27	2.24	Trace:	28"	2712 20	16	24 hr. test Jenkins B#
	3			10		
			9 (3)	.)		
			:			
		· · · · · · · · · · · · · · · · · · ·				

	DOWELL DIVISION OF THE DOV	CHEMICAL COMPANY
Ο.		
	WATER ANALYSIS	REPORT
\circ		
()		••
	TAA DETTE AT THE ACTION OF AT AN ACT OF A	
\circ	. TO: PETROLEUM CORPORATION OF TEXAS	
_	ARTESIA, NEW MEXICO 88210	
\bigcirc	· positioner	
0		
h 400	LABGRATORY NO.: H400 DATE: MARCH 15,1972	
Q		
	VELL NAME + NO : DEXTER FED 15) FIELD: FLINT	DEPTH: 3100 FT
0		FORMATION: GRAYBURG STATE: NEW MEXICO
	SAMPLE PT .: SEPERATOR	SAMPLE ID: PRODUCED
<i>7</i> %		A second
O		
		Andrew Control of the
\circ	DISSOLVED SOLIDS	OTHER PROPERTIES
	CATIONS MG/L MEG	A/L
O		
		162 PH = 6.24 19 SP GR = 1.147
O		00 RESISTIVITY= .0000
, " 		
\bigcirc	ANIONS	
*e'	CHLØRIDES, CL 126581 35	669
<i>C</i> 2		24 7
O	DICAMBUNALED HOW 451	
,		4
\odot	THE CALCIUM CARBONATE STABILITY INDEX=	1.17526
	THE CALCIUM SULFATE STABILITY INDEX I	S 14.41
\circ	A MEGATINE WINDER THREE GATE	THE GOLDING POPO
•	A NEGATIVE NUMBER INDICATES THE SCALE NOT EXCEED THE SATURATION VALUE AND S	
O^{\dagger}		
	REMARKS AND RECOMMENDATIONS;	
Ö	REMARKS HIND RECOMMENDATIONS;	
	<u> </u>	
C		
O		
C.		
	JACK	SARFF

### WATER ANALYSIS REPORT To: PETROLEUM CORPORATION OF TEXAS	DOWELL DIVISION OF THE DOW CHEMICAL COMPANY							
T6: PETRGLEUM CORPORATION OF TEXAS 707 MANN ARTESIA, NEW MEXICO 88210 LABORATORY NO.: H401 DATE: MARCH 15,1972 WELL MAME + NO.: ENKINS B DEPTH: 3100 FT FIELD: FLINT FORMATION: GRAYBURG COUNTY: EDDY STATE: NEW MEXICO SAMPLE PT.: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX= 1.65375								
ARTESIA, NEW MEXICO 88210 LABORATORY NO.: H401 DATE: MARCH 15.1972 WELL NAME + NO.: ENKINS B DEPTH: 3100 FT FIELD: FLINT FORMATION: GRAYBURG COUNTY: EDDY STATE: NEW MEXICO SAMPLE PT.: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, SO4 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375	AN THE HIGH WATER							
ARTESIA, NEW MEXICO 88210 LABORATORY NO.: H401 DATE: MARCH 15.1972 WELL NAME + NO.: ENKINS B DEPTH: 3100 FT FIELD: FLINT FORMATION: GRAYBURG COUNTY: EDDY STATE: NEW MEXICO SAMPLE PT.: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, SO4 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375								
LABORATORY NO.: H401 DATE: MARCH 15,1972 WELL NAME + NO.: ENKINS B D DEPTH: 3100 FT FIELD: FLINT FORMATION: GRAYBURG COUNTY: EDDY STATE: NEW MEXICO SAMPLE PT.: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, SO4 4200 87 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX= 1.65375	O 7 MANN							
DATE: MARCH 15,1972 WELL NAME + NØ: WENKINS B DEPTH: 3100 FT FIELD: FLINT FURMATION: GRAYBUNG COUNTY: EDDY STATE: NEW MEXICO SAMPLE PT.: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, SO4 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375	RTESIA, NEW MEXICO 88210							
DATE: MARCH 15,1972 WELL NAME + NØ: WENKINS B DEPTH: 3100 FT FIELD: FLINT FURMATION: GRAYBUNG COUNTY: EDDY STATE: NEW MEXICO SAMPLE PT.: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, SO4 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375								
DATE: MARCH 15,1972 WELL NAME + NØ: WENKINS B DEPTH: 3100 FT FIELD: FLINT FURMATION: GRAYBUNG COUNTY: EDDY STATE: NEW MEXICO SAMPLE PT.: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, SO4 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375	ለጥለውሃ አነል ህላሴ፤							
WELL NAME + NO: LENKINS B D DEPTH: 3100 FT FIELD: FLINT FORMATION: GRAYBURG COUNTY: EDDY STATE: NEW MEXICO SAMPLE PT.: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, SO4 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375								
COUNTY: SEPERATOR STATE: NEW MEXICO SAMPLE PT:: SEPERATOR SAMPLE ID: PRODUCED DISSOLVED SOLIDS OTHER PROPERTIES CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX= 1.65375	NAME + NØ.: VENKINS B D DEPTH: 3100 FT	:						
DISSOLVED SOLIDS CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, SO4 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX= 1.65375	Y: NEW MEXICO	_						
CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX= 1.65375	E PT : SEPERATOR SAMPLE ID: PRODUCED							
CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX= 1.65375								
CATIONS MG/L MEQ/L SODIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX= 1.65375	and the control of th							
SØDIUM, NA 69891 3033 PH = 6.70 CALCIUM, CA 3200 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIØNS CHLURIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375	LVED SØLIDS ØTHER PRØPERTIES							
CALCIUM, CA 3800 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY = .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX = 1.65375	NS MG/L MEQ/L							
CALCIUM, CA 3800 159 SP GR = 1.129 MAGNESIUM, MG 851 70 RESISTIVITY= .0000 ANIONS CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBONATES, HC03 366 5 THE CALCIUM CARBONATE STABILITY INDEX= 1.65375								
ANIØNS CHLØRIDES, CL 112398 3169 SULFATES, SØ4 4200 87 BICARBØNATES, HCØ3 366 5 THE CALCIUM CARBØNATE STABILITY INDEX= 1.65375		_						
CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375	SIUM, MG 851 70 RESISTIVITY= .UUUU							
CHLORIDES, CL 112398 3169 SULFATES, S04 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375	S S							
SULFATES, S04 4200 87 BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375		d:						
BICARBUNATES, HC03 366 5 THE CALCIUM CARBUNATE STABILITY INDEX= 1.65375	IDES: CL 112398 3169							
THE CALCIUM CARBONATE STABILITY INDEX= 1.65375								
	SWINT ESS TOOS S							
THE CALCIUM SULFATE STABILITY INDEX IS 7.34	LCIUM CARBONATE STABILITY INDEX= 1.65375							
	ALCIUM SULFATE STABILITY INDEX IS 7.34 .							
A NEGATIVE NUMBER INDICATES THE SCALE IN SOLUTION DOES								
NOT EXCEED THE SATURATION VALUE AND SHOULD NOT PRECIPITATE.								
REMARKS AND RECOMMENDATIONS:	CC AND DEGRAMMENTA DE CASC .							
REMARKS AND RECUMBINDALLENDS:	15 AND RECUMENDALLONS:							

DRAFT

GMH/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:

> CASE No. Order No. R-4295

APPLICATION OF PETROLEUM CORPORATION OF TEXAS FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 5 at Santa Fe, New Mexico, before Examiner Elvis A. Utz. NOW, on this ____day of _ May 1972, 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 certain leases in the Maybung-Deles Pol comprising NW/45W/4

Section 15, and the NW/4 of Section 20, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico.

- (3) That Order (3) of Commission Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions, of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any other place or in any manner which would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.
- (4) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.
- (5) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneificial use that would be impaired by contamination.
- (6) That the applicant seeks an exception to the provisions of the aforesaid Order (3) to permit the disposal of salt water produced by applicant's Dexter Federal Well No. 12 and all of leaking wells located or to be located on said

Field-lease in unlined surface pits on said lease .

(7) That the applicant has recently completed the Dexter

Federal Well No. 3, located 1650 feet from the 500 line

and 1650 feet from the East line of said Section 15 as a

producing well in the Grayburg-Jackson Pool that said well

basis of water per day

(7) Shat the Dexter Februal Well produces approximately ten barrels of water perday and the four Jenkins wells produce approximately nine barrels of water per day combined.

- (8) That there is a reasonable probability that the applicant will complete additional wells in the NW/4 of said Section 20.
- (9) That there appears to be no water in the vicinity of any of the above described wells the Dextor Federal Well No. 15 of said Section 15 and the NW/4 of said Section 20 for which a present or reasonably foreseeable beneficial use is or will be impaired by contamination from unlined surface pits located on said quarter section.
- (10) That the applicant should be permitted to utilize unlined surface pits for the disposal of salt water produced by the above described fine aveals.

 its Dexter Federal Well/No. 15 located in the

of Section 15 and by wells located or to be located in the NW/4 of Section 20, Township 17 South, Range 30 East, NMPM,____

Field, Eddy County, New Mexico.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Petroleum Corporation of Texas, is hereby granted an exception to Order (3) of Commission Order No.

 R-3221, as amended, to dispose of water produced in conjunction with the production of oil or gas, or both, by its Dexter Federal, locally unit 37 letter (5 and 16 January 1881) Well No. Boof said Section 15 and wells located or to be located on its lease or leases comprising the NW/4 of Section 28, Township 17 South, Range 30 East, NMPM, Mayberg Jackson Pool Field, Eddy County, New Mexico, in unlined surface pits located in the received 20 and 10 and 10
- (2) That the Secretary-Director of the Commission may by administrative order rescind such authority whenever it reasonably appears to the Secretary-Director that such rescission would serve to protect fresh water supplies from contamination.
- (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.

Dexter Fed # 15 Unit 5 Sou 15, T175 R 30 E, Eddy Straylung Jackson Pool.

Velholeum Cerpo Devero

Allg app wells un NW14 fer. 20, 17-30 Eddy Exception to R-3221

CASE 4690: Application of SHELL OIL CO. FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.