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2 1 BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION 2 CONFERENCE ROOM, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 3 MAY 5, 1972 4 EXAMINER HEADING 5 IN THE MATTER OF: 6 Application of Petroleum Corporation 7 ) of Texas for an exception to Order ) CASE NO. 4689 No. R-3221, as amended, Eddy County, ) 8 New Mexico. 9 10 11 BEFORE: Elvis A. Utz Examiner 12 13 14 15 16 17 18 19 20 TRANSCRIPT OF HEARING 21 22 23 24

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              MR. UTZ:
                         Case 4689.
 2
                           The Application of Petroleum Corporation
              MR. HATCH:
    of Texas for an exception to Order No. R-3221, as amended,
 3
    Eddy County, New Mexico.
 4
              MR. CAMPBELL:
                              Mr. Examiner, Jack M. Campbell,
 5
    attorney from Santa Fe, New Mexico, representing the
 6
                 I have one witness, Mr. Ken Freeman.
    Applicant.
7
                               KENNETH FREEMAN,
8
    was called as a witness and, after being duly sworn, testified
9
    as follows:
10
                         Any other Appearances in this Case?
              MR. UTZ:
11
               (No response.)
12
                         You may proceed.
               MR. UTZ:
13
                           DIRECT LYAMINATION
14
    BY MR. CAMPBELL:
15
         Will you state your name, please?
16
         Kenneth Freeman.
17
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Where do you live, Mr. Freeman?

Midland, Texas. Α

By whom are you employed?

The Petroleum of Texas.

In what capacity?

District Superintendent and Petroleum Engineer.

What is your professional background?

As a Petroleum Engineer, I graduated from the University Α

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Yes, I have. A 4 MR. CAMPBELL: Do you want any further qualifications? 5 MR. UTZ: The witness is qualified. I will ask 6 your last name again. 7 Freeman, F-r-e-e-m-a-n. THE WITNESS: 8 Are you acquainted with the properties (By Mr. Campbell) 9 owned by your Company and generally, with the other 10 properties in the Grayburg-Jackson Pool in Eddy County, 11 New Hexico, particularly Section 20, Township 17 South, 12 Range 30 East? 13 Yes, I am. Α 14 Did you testify before this Commission previously 15 seeking an exception to Order Number R-3221? 16 Yes, I have on two different occasions. 17 Can you give the Examiner a very quick review of the Q 18 history of this pool in terms of how long it has been 19 in production and the nature of the early drilling 20 programs, and so forth? 21 Well, this old pool was drilled in the early thirties, Α 22 primarily the bulk of the development and drilling was 23 with cable tools as well as rotary tools and the reason 24 we are asking for this exception is there is no fresh

of Texas and I have worked primarily along the Gulf

Have you testified before this Commission previously?

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One well was the Flint, located in Unit "M", Section 6 7 14, 17, 30. The other well was the Dexter J located in Unit "J", Section 22, 17, 30. 8 9 I will hand you what has been identified or refer to what has been identified as Applicant's Exhibit Number 1, 10 and I will ask you to state what that is, please. 11 It is a generalized plat showing the area with a three 12 mile circle around the subleases we are trying to 13 obtain approval for. 14 how are the leases identified on this plat, the leases 15 vou are seeking approval for? 16 They are outlined in red with hash marks. 17  $P_{\bullet}$ What other wells are identified on that plat? 18 What I have done is selected a typical log from the 19 Dexter J located in Section 22. The reason for this 20 is from the surface down, it is a complete log and the 21 other wells that have triangles around them are subject 22 wells and the other wells that we have logs on. 23 We have correlated these altogether and made a 24

generalized section for the area.

water in the area that I am aware of.

of produced water in this area?

Yes, we have.

For what wells?

Have you previously obtained approval for the disposal

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.

- A It is a well log on the Dexter 15, located in Section 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
  Exhibit 3, I will ask you to state what that is, please.
- A It is also a gammaray neutron log of the Federal Well 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 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.
- Q Have vou, Mr. Freeman, carefully examined all of these logs?
- A Yes, I have.
- O In your examination, have you found any indication of any bed which might bear fresh water and which is reflected in the logs?
- A No, I haven't.
- Q I refer you now to what has been marked as Exhibit 5

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and ask you to state what that is, please.

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.

- 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.

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

- A About eighteen to nineteen barrels of water per day.
- Q What is the total amount of oil, approximately?
- A About seventeen barrels of oil.
- Have you -- well, let's move on and I will ask you to look at what has been identified as Applicant's Exhibits 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.
- Ω What do they reflect in terms of the quality of the water?

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1 A Just breakish, saline type of water.
2 O Is it potable water?
3 A No, it is salt water.
4 O Now, have you made inquiries as to the alternative for disposing of this water, other than disposing of it in unlined pits?

- A Well, on the Dexter Federal J, which is located in Section 22, we, at one time, hauled water from the gathering tank and the resulting cost was twenty-five cents per barrel.
- Would that additional cost and, considering the marginal nature of these wells, would it be economical for you to follow that procedure and still operate the wells?
- A No, it would not.
- So that you would have to abandon the wells unless you found some other choice, or disposition of this water?
- A Either that or shut the majority of them down.
- Do you believe that if you are permitted to dispose of this water in unlined pits, such as are shown in Order R-33-321, that there will be any risk of damage to any fresh water, potable water in the area?
- A I do not because, to my knowledge, there is not any fresh water in this area.

It is being piped in to the local Hill Town site to my knowledge, and there are no windmills in the

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O 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?

Not to my knowledge.

general area.

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

Without objection, Exhibits 1 through MR. UTZ: 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:

- Did you testify as to the proximity of any fresh water wells in this area?
- Would you restate the question.
- liow 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.
- You said that, within a two or three mile radius, that Q

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vou don't have any fresh water wells?
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         That is correct. Our information man has said that
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         south of Loco Hills, about four or five miles, he knew
 3
         of one windmill and that is the closest I know of.
 4
 5
         How does Loco Hills get fresh water?
         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:
                        Anv 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)
18
              MR. UTZ:
                         The Case will be taken under advisement.
19
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STATE OF NEW MEXICO 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.

SS

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9	APPLICANT'S (Petroleum Corp.)	OFFERED ADMITTED
10	Exhibit Number 1	5 9
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