CASE 4123: Application of KERSEY & CO. FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

Case Number.

Application

Transcripts.

Small Exhibits

\* 4

3

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

May 7, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Kersey and Company for a waterflood project, Eddy County, New Mexico.

Application of Continental )
Oil Company for a waterflood)
project, Eddy County, New )
Mexico. )

Application of C. O. Fulton ) for a waterflood project, ) Eddy County, New Mexico.

Case 4123

Case 4125

Case 4128

BEFORE: DANIEL S. NUTTER, Examiner



TRANSCRIPT OF HEARING

MR. HATCH: Case 4123, application of Kersey and Company for a waterflood project, Eddy County, New Mexico.

Case 4125, application of Continental Oil Company for a waterflood project, Eddy County, New Mexico.

Case 4128, application of C. O. Fulton for a waterflood project, Eddy County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin & Fox, Santa Fe, appearing for the Applicant in each of the cases, which we request to be consolidated.

MR. NUTTER: They will be consolidated for purposes of testimony.

(Thereupon, Continental's Exhibits 1 through 5 were marked for identification.)

#### LARRY KOPCHEK

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

#### DIRECT EXAMINATION

#### BY MR. KELLAHIN:

Q State your name, please?

- A Larry Kopchek.
- Q By whom are you employed?
- A Petroleum Engineer with Continental Oil Company.
- Q Where are you located?
- A Hobes, New Mexico
- Q Have you ever testified before the Oil Conservation Commission, and made your qualifications as a matter of record?
  - A Yes, sir.

MR. KELIAHIN: Are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are.

- Q Mr. Kopchek, are you familiar with the applications before the Commission at the present time, including the application of Continental Oil Company in Case 4125?
- A Yes, sir. Case No. 4125 is the application of Continental Oil Company for authority to install a waterflood project on its Donohue Heard and Levers "B" Leases in the Forest Pool, Eddy County, New Mexico.
- Q Referring to what has been marked as Exhibit 1, would you describe the information shown on that exhibit?
- A Exhibit 1 is a plat showing the leases in the

  Forest Pool area and in an area two miles in each direction

  from the proposed injection wells. Lease ownership and

location and identification of wells are shown in the usual manner. The pool from which each well is producing is shown by a letter symbol and the Cave and Square Lake pools are outlined in color. The Donohue lease is shown to consist of the W/2 SE/4 Section 34, the S/2 SE/4 Section 27, and the SE/4 NW/4 Section 35. The Heard Lease is shown to consist of the SW/4 and the SW/4 SE/4 Section 35. The Levers "B" Lease is shown to consist of the NE/4, the E/2 NW/4, the SW/4, and E/2 SE/4 of Section 34, and the W/2 NW/4 Section 35. The injection wells are shown by the red triangle inscribed around the wells. There is in progress at this time a cooperative waterflood project in the Square Lake Pool immediately to the east of the proposed project in the Forest Pool and the General American Nunlee Well No. 5 in the SE/4 NE/4 Section 35 is shown to be an injection well in this project. To the SW of the Forest Pool, and shown by the dashed line, is the Cave Pool waterflood project which has been under way for several years. We have entered negotiations with Fulton and Kersey to the south of the Forest Pool for cooperative waterflooding in the Square Lake Pool in conjunction with our waterflood in the Forest Pool. Their applications for authority to convert their wells for injection are included

on this same docket in Cases Nos. 4123 and 4128.

- Q Referring to what has been marked as Exhibit
  No. 2, would you describe what is shown on that exhibit?
- A Exhibit No. 2 is a tabulation of the proposed injection wells for the Forest waterflood project and shows from left to right the designation of the well and its location, the total depth, or plug back depth, the size, setting depth and cement used for the surface casing, the size, setting depth and cement used for the production casing and the producing interval open in the well and whether it is through perforations or open hole. Exhibits 2-1 through 2-10 are schematic diagrams for each of the wells listed on Exhibit 2 and showing schematically the same information. These exhibits also show the proposed procedure for equipping the well for injection.
- Q In other words, there are ten wells which will be converted to water injection?
  - A That's correct.
- Q Is the completion going to be such that the injection will be down the tubing under a packer?
  - A Yes.
  - Q How will the wells be equipped for injection?
  - A The wells will be equipped with packers and

#### cement lined tubing

- Q Will you fill the casing tubing annulus?
- A We have no plans on that. The packer should isolate it.
- Q And is this the same type of completion you used in the Cave Pool, or do you know?
- A In some cases. I am not really sure, but I think there maybe a couple going down the casing there.
- Q Referring to what has been marked as Exhibit No. 3, would you identify that exhibit?
- configurations of the top of the Premier Sand with a contour interval of 10 feet. As shown, the structure in the Forest Pool is on a small nose of low relief on an eastward plunging slope. Actually, the structure has little or no effect on the accumulation of cil in this area. The porosity appears to be a depositional feature which runs in a fairly broad band, which is almost perpendicular to the structure. This band includes the Cave Pool to the southwest and a portion of the Square Lake Pool to the East-Northeast.
- Q Referring to what has been marked Exhibit No. 4, would you identify that exhibit?
  - A Exhibit No. 4 is a typical log of the Forest

Pool section. Actually, this log is from a well which is classified as the Square Lake Pool, but is the nearest well which shows the desired information. The well is the General American Nunlee Well No. 3, located in the NW/4 SE/4 Section 35. The proposed injection wells in the Forest Pool were not logged below the casing seat and consequently do not show the interval which we consider pertinent to this matter. The log shows the top of the Grayburg at 2246 feet, the top the Premier at 2557, the top of the San Andres at 2580 feet, and the top of the Lovington Sand at 2669.

Our information indicates that the production in the Forest Pool is coming from the Premier member of the Grayburg formation and the Lovington Sand in the San Andres Formation.

- Q What is the pay interval in the Cave Pool which you mentioned was being waterflooded to the southwest of the Forest Pool.
- A The Cave Pool produces entirely from the Premier Sand, which is Grayburg in age.
- Q What is the pay zone in the Square Lake Pool which you mentioned?
  - A Our information indicates that the Square Lake

Pool produces from both the Grayburg and San Andres, probably the same members that we have in the Forest Pool, and also indicates that the Metex and Loco Hills members are productive in some areas of the pool.

- Q Referring to what has been marked as Exhibit No. 5, would you identify that exhibit?
- A Exhibit No. 5 is a tabulation of reservoir data for the Forest Pool. As you can see, actual reservoir data is extremely limited and it was necessary to use empirical relationships using the Cave Pool Unit Waterflood performance as a guideline in order to make a prediction of waterflood performance.
  - Q Would you give a brief history of the Forest Pool?
- A The Forest Pool was discovered by the Forest E.

  Levers No. 1-B Levers located in the SE/4 NE/4 Section 34,

  T16S, R29E, which was completed December 30, 1945. The

  first commercial producer was the Levers "B" No. 2 which

  was completed February 28, 1946. Development continued at

  a rather slow rate through September, 1950, at which time

  19 wells had been completed. The last well to be completed,

  the Heard No. 7, was completed on December 28, 1959. All

  completions except this last one were open hole and all

  wells were shot upon completion except three. The Levers

"B" No. 8 and the Heard No. 2 were completed natural and the Heard No. 7 was sand fraced. At the present time there are 14 wells shown as producing and five are shut in. During February 1969 production from the pool totaled 179 barrels, or 6.4 barrels per day, which is less than 1/2 barrel per day per well average.

Q In your opinion, can additional oil be recovered from the Forest Pool by waterflooding, which would not be recovered by primary means?

A As you can see, the economic life of the pool by primary means is at an end. It is estimated that we can recover an additional 630,800 barrels of oil by waterflooding as proposed in this application.

Q At what rates do you expect to inject water in this project?

rates will be 350 barrels per day per well. After a short time it is expected that the water rates will stabilize at a maximum of approximately 200 barrels per well per day. This would be a total of a maximum of 3500 barrels per day initially levelling off to a maximum of 2,000 barrels per day.

Q What is the source of this water?

- A We are negotiating a contract with Double Eagle Corporation to supply us with Ogallala water, which is fresh water.
- Q Is that water compatible with the formation water?
- A This water is being used in our Cave Pool waterflood and in many other waterflood projects in this area and there has been no problem of compatibility to my knowledge.
- Q Will this waterflood project be conducted on a cooperative lease basis?
- A We are in the process of forming an all-federal unit in the Forest Pool. All of these wells are located on federal land. We have had our preliminary discussion with the U.S.G.S. and outlined our plans to them. We anticipate that the unit agreement will be forwarded to them for designation of unit area and preliminary approval in the very near future. We hope that this unit can be effective by December 1, 1969.
- Q Do you have plans to expand this waterflood in the future?
- A Our present plans involve the conversion of two additional wells, the Donohue No. 1, located in Unit P of Section 27, and the General American Numlee No. 3, located

in Unit J of Section 35, provided that we can make satisfactory arrangements with General American for use of the well.

Q In view of the possibility of these additional injection wells, is it your recommendation that the order provide for administrative approval of additional wells?

A Yes, this is my recommendation in order to avoid the expense and administrative burden on the Commission of conducting additional hearings.

Q In your opinion, will the granting of this application result in the prevention of waste and protect correlative rights?

A The conformation of the leases and location of wells is such that correlative rights should be protected even in the event the unit is not effected. We do expect the unit to become effective, however, and this should protect all correlative rights. Certainly waste is being prevented in that additional oil will be recovered which could not otherwise be produced.

Q What allowable do you anticipate for this project?

A There are twenty 40 acre tracts in the project area, each with one well, except for one tract which has two wells. Based on the minimum waterflood allowable of

42 barrels per day, as provided under rule 107-E, a minimum waterflood allowable of 854 barrels per day would be anticipated. Under the current allowables a higher allowable would be available. Based on a normal unit allowable of 60 barrels per day well, the project allowable would be 1220 barrels of oil per day.

Q Were Exhibits 1, 2 through 2-10, and 4 through 5 prepared by you or under your supervision?

A Yes.

MR. KELLAHIN: At this time, I will offer in evidence Exhibits 1 through 5, inclusive, including Exhibits 2 and through 2-10.

MR. NUTTER: Exhibits 1 through 5 will be admitted in evidence.

(Thereupon, Applicant's Exhibits 1 through 5 were admitted in evidence.)

MR. KELLAHIN: That is all I have on direct examination.

#### CROSS EXAMINATION

#### BY MR. NUTTER:

Q Mr. Kopchek, when you mentioned the projected allowable of 854 barrels, you are assuming that the unit would be formed and the leases consolidated?

- A That's correct.
- Q Otherwise, until that time, each lease, you understand, would stand on its own?
  - A Yes, sir.
- Q And have individual allowables assigned to them.

  Now, this well up here in P of 27 is not the subject of
  the application at the present time, is that correct?
  - A Correct.
- Q So your application is for the ten wells that you have shown with red triangles in Sections 34 and 35, all of which have been drilled with the exception of the Donohue well in Unit F of 35?
  - A That's correct.
- Q All of these other wells have been drilled, and according to your Exhibits 2, 2 through 2-9, will be equipped with cement lined tubing set in a packer?
  - A Yes, sir.
- Now, this annulus can be loaded with some sort of inert fluid, and equipped with a pressure gauge at the surface?
  - A Yes, it can.
- Q Is it your proposal to inject down the casing in this new well that is going to be drilled? Exhibit No. 2-10 doesn't indicate any tubing or packer, or anything in

that one.

A It is my understanding that this well will be a slimbole completion, and we will inject down that casing.

Q In other words, you are going to run 3 1/2 theh casing in there?

A Yes.

Q Do you propose to cement it with 400 sacks?
Will that be sufficient cement to circulate on that?

A I do not know whether it will circulate. It should go back to the surface casing, though.

Q The Commission's requirement in this particular
Case to require that the cement come back into the surface
pipe would not be unreasonable?

A It will come into the surface pipe.

Q And your cumulative oil production from this pool to date has been 505,000 barrels, and you are estimating 630,800 barrels for secondary recovery?

A That's correct.

Q Which is a little more than one to one?

A Yes, about 1.25.

MR. NUTTER: Any further questions of Mr. Kopchek?
The witness may be excused.

(Thereupon Exhibits 1, 2 and 3 in Case No. 4123, and Exhibits 1, 2 and 3 in Case No. 4128, were marked for identification.)

#### VICTOR T. LYON,

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

#### DIRECT EXAMINATION

#### BY MR. KELLAHIN:

- Q State your name, please?
- A Victor T. Lyon.
- Q By whom are you employed?
- A I am employed by Continental Oil Company as Conservation Coordinator in the Hobbs Division Office.
  - Q Are you a petroleum engineer?
    - A Yes, sir.
- Q Have you testified before the Oil Conservation Commission, and made your qualifications a matter of record?
  - A Yes, sir.
- MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are.

Q Mr. Lyons, you heard the testimony of Mr. Kopchek in this consolidated case, in which he stated that Continental Oil had negotiated with Kersey and Company, and with

- C. O. Fulton for cooperative waterflood projects in connection with Continental's waterflood project in the Forest Pool, is that correct?
  - A Yes, sir.
- Q Are you familiar with the proposed waterflood project by Kersey and Company?
  - A Yes, sir.
- Q What does Kersey and Company propose in their application?
- A Kersey and Company proposes to convert the Kersey and Company Dublin No. 3, located 330 feet from the north line and 1650 feet from the east line, Section 3, Township 17 South, Range 29 East.
- Q Referring to what has been marked as Exhibit No. 1 in Case 4123, would you identify that exhibit?
- A This is a letter from Mr. Kersey wherein he outlines to the Commission his proposal to conduct a cooperative waterflood by converting the well which I just described.
- Q And Exhibit No. 2 in Case 4123, would you identify that exhibit?
- A This is a copy or a schematic diagram showing the method of completion of the well. It shows 8 5/8 casing set at 408 feet with 50 sacks. It does not indicate whether

the cement is circulated, and I do not know whether this is the case or not.

It shows 7 inch casing set at 2,460 with 100 sacks; and 2 3/8 inch cement lined casing to be set at 2,400 feet on a tension packer at that depth.

The production has come from the openhole interval between the 7 inch casing at 2,460 and the total depth of 2,537, and this will be the injection interval.

- Ω Mr. Kersey proposes to use a cement-lined tubing?
- A Yes, sir. And he informs me that he will fill the annular space above the packer with an inert fluid.
- Q And is this a conventional type of completion used in waterflood projects in this area?
  - A Yes, it is.
- Referring to what has been marked as Exhibit No. 3 in Case 4123, would you identify that exhibit?
- Dublin lease outlined in red, as to the waterflood portion of it. I believe that the lease consists of twenty acres described as the west half of the northeast quarter, and the northwest quarter of the southeast quarter of Section 3, Township 17 South, Range 29 East.
- Q Would an injection well located as proposed by Mr. Kersey fit into the injection pattern proposed by

Continental Oil Company in the Forest Pool?

A Yes, sir. We have designed and have at least tentatively agreed upon an 80-acre five-spot pattern which goes across the common boundary and should treat all parties equitably.

- Q And you propose the same rates of injection as proposed in the Forest Pool?
  - A Yes, sir.
  - Q What will the source of water be?
- A Continental Oil Company will pressure the water at its injection plants, and will furnish pressured water to both Mr. Kersey and to Mr. Fulton.
- Q It will be water from the same source as that used by Continental in its Forest Pool flood?
- A That's correct. Initially, it will be 100 percent Ogallala water furnished by Double Eagle Corporation. As water is produced in the area, it will be included in our injection well.
  - Q It will be reinjected?
  - A Yes.
- Q Referring to Exhibit No. 1 in Case 4128, the Application of C. O. Fulton, would you identify that exhibit?

A Yes, sir, Exhibit No. 1 in Case 4128 is a letter from Mr. Kersey explaining to the Commission what is proposed by Mr. Fulton. Mr. Kersey and Mr. Fulton have collaborated on this project, and Mr. Kersey is handling these matters for Mr. Fulton.

Q Now, Mr. Fulton will convert three of his wells to water injection under his proposal, is that correct?

A Yes. These are his C. O. Fulton State No. 2 located 330 feet from the north line, 990 feet from the west line of Section 3; and his No. 3-A State, located 1,650 feet from the north line, 990 feet from the east line of Section 3; and his State No. 1 located 660 feet from the north line and 660 feet from the west line of Section 2; all in Township 17 South, Range 29 East.

Q Now, referring to what has been marked as Exhibit
No. 2 in Case 4128, would you identify that exhibit?

would be one that I have here as a plat showing Mr. Fulton's leases which are cooperating in this cooperative flood. It consists of the northwest quarter of the northwest quarter, which is, I believe, listed in the Commission's records as the Gulf State B lease; his Dublin Federal, which is the northeast quarter of the northwest quarter of Section 3; his Dublin lease, which consists of the east half of the northeast quarter, and the

northeast quarter of the southeast quarter of Section 3; and his Gulf State A, which is described as the northwest quarter of the northwest quarter of Section 2; these leases are outlined in red, and the injection wells are shown circled in red.

Are the injection wells so located that they will fit into the injection pattern offsetting the Fulton wells in the Kersey application and in the Continental Oil Company application?

A Yes, sir, these wells are spotted on a normal 80-acre five-spot pattern.

Q Referring to what has been marked as Exhibit No. 3 in Case 4128, would you identify that exhibit?

A Exhibit No. 3 is a drawing showing schematically the three injection wells, showing the size and depth, and cement used in setting the surface casing; the size, depth, and cement used in setting the production casing, the depth of the tubing, the depth of the packer, the openhole interval into which water will be injected. All of these are equipped with a tension packer, and the casing tubing annulus above the packer will be filled with an inert fluid.

Q Will a cement-lined tubing be used for injection purposes?

- A That's correct.
- Q What volume of water will be injected?
- A Approximately 200 barrels of water per day.
- Q Will the source of the water be the same furnished by the Continental Oil Company?
  - A Yes, sir.
- Q You heard the testimony as to the state of completion by the Forest Pool. Would the same apply to the Kersey and the Fulton leases?
- A Yes, sir. I believe there are two of Mr. Fulton's wells that are still producing, and they produce approximately one barrel per day per well.
- Q Is the reservoir substantially depleted on primary recovery?
  - A Yes, sir.
- Q Will the approval of this application by the Commission for water injection in this formation result in an increased recovery of oil that would not otherwise be recovered?
  - A Yes, it will.
  - Q Will any waste occur as a result of this?
- A In my opinion, there will be no waste as a result of this waterflooding.

- Q Are the correlative rights of the owners in the area protected, in your opinion?
  - A In my opinion, they are.
- Q For the record, would this area be included in the proposed Continental Unit, or --
  - A No, it is not.
- Q It would be an offsetting flood to the proposed Continental Unit?
  - A That's correct
- Q And you would have an agreement with them in that connection?
- A Yes, sir, we do have an agreement which is being proposed, setting out the obligations of each of the parties, providing for a water source, and providing for the disposal of water for recirculation and into the second project.

I might also mention that we have under discussion with another operator in this same area, McCreary and Franklin, the possibility of their entering into this waterflood project, also, and they did not have their material ready at this time, so that all of it could be presented at the same time.

Q Have you examined the Exhibits 1, 2, and 3 in Cases 4123 and 4128?

- A Yes, sir.
- Q In your opinion, do those Exhibits correctly reflect the information to which you have testified?
- A I have not had occasion to verify the information shown on those with the official records, and I just accepted them.
  - Q You believe them to be correct?
- A Yes, sir, I have no reason to doubt that they are correct.
- MR: KELLAHIN: At this time, I offer in evidence Exhibits 1, 2, and 3 in Case 4123, and Exhibits 1, 2, and 3 in Case 4128.
- MR. NUTTER: Exhibits 1, 2, and 3 in Case 4123, and Exhibits 1, 2, and 3 in Case 4128 are hereby admitted in evidence.

(Thereupon, Applicant's Exhibits 1, 2, and 3 in Case 4123, and Exhibits 1, 2 and 3 in Case 4128 were admitted in evidence.)

MR. KELLAHIN: That is all.

#### CROSS EXAMINATION

#### BY MR. NUTTER:

Q Mr. Lyon, the nomenclature of the leases as shown on Continental's Exhibit No. 1, as compared with the

nomenclature for the names of the leases on Mr. Fulton's application doesn't quite jibe. Now, if we look at the map, we see that the 40-acre lease in Section 2 is called the Gulf A, and the 40-acre lease in the northwest of the northwest of Section 3 is called the Gulf B?

- A Right.
- Q Now, the application calls this the State No. 1 and No. 2 well. And then the other well is identified on the application as the State 3-A, but the map calls it the Dublin lease. Do you know if these are separate leases?
- A The Gulf A and Gulf B are part of the same basic lease. The Dublin or State A, as he refers to it, I believe is a separate lease from these two.
- Q So Mr. Fulton is going to have one lease there with two injection wells on it, and no producers?
  - A That's correct.
- Q And then he will have a waterflood project area consisting of three 40's on his Dublin lease?
- A That's correct. Incidentally, I have discussed this with Mr. Bill Barrow this morning, and he indicated that at least at this time he had no objection to this arrangement.
  - Q And Mr. Kersey then will have one 80-acre project,

80 acres for his waterflood project?

- A That's correct.
- So there wouldn't be any allowable on the Gulf A and Gulf B, and the allowable would be 126 barrels on the other project, the Dublin?
  - A Yes.
- Now, you mentioned that these annular spaces would be filled with inert fluid. They can be equipped with a gauge, also?
  - A Yes, sir.

MR. NUTTER: Any further questions?

## CROSS EXAMINATION

#### BY MR. LONG:

- Q I take it from this exhibit that these actually come from what we call Line Lease Agreements, aren't they?
  - A Sir?
- Q Aren't these generally classified in the category with what we call a Line Lease Agreement?
  - A I don't know if there is an existing agreement.
- Q That is in effect what you are doing between this proposed Federal Unit and the State Wells?
  - A Yes, sir.

- Q Then if that be true, don't you eventually draw up a line lease agreement?
  - A Yes, sir, there will be an agreement.
- Q Wouldn't two State wells receive a proportionate share of returns on the lease line there?
- A I don't believe, if I understand your question correctly, that this lease line agreement will be in the nature of a unit agreement.
- Q No, it isn't, it is between the unit and the outside, or between two units.
- A It is for the purpose of protecting the correlative rights of participating parties. There will be Federal wells pushing oil to State leases, and there will be State wells pushing oil to Federal leases.
  - O There will be an agreement to that effect?
  - A Yes.

MR. NUTTER: Any further questions? The witness may be excused. Do you have anything further in these Cases?

MR. KELLAHIN: No.

MR. NUTTER: Does anyone have anything they wish to offer in Cases 4123, 4125, and 4128? We will take the Cases under advisement.

PAGE

### INDEX

WITNESSES:

LARRY KOPCHEK

Direct Examination by Mr. Kellahin			2		
Cross	12				
VICTOR T.	LYON		÷ .		
Direc	15				
Cross-Examination by Mr. Nutter			23		
	-				
EXHIBITS		MARKED	ADMITTED	IN EV	IDENCE
· ·	Applicant's Ex		ADMITTED	IN EV	IDENCE
· ·	Applicant's Ext l through 5		ADMITTED 12	IN EV	IDENCE
Case 4125,	1 through 5	nibits 2		IN EV	IDENCE
Case 4125,		nibits 2		IN EV	IDENCE
Case 4125,	l through 5  Applicant's Exh	nibits 2 nibits	12	IN EV	IDENCE

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.

Smulh Mostilelo

My Commission expires:

December 6, 1972.

I do horeby certify that the foreguing is a complete record of the proceedings in the Present bearing of Case No. 4/23-25-28 dears by so on 19.61

New Mexico Oil Conservation Commission

# OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE. NEW MEXICO 87501

May 20, 1969

Mr. Jason Kellahin Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico

Dear Sir:

Enclosed herewith is Commission Order No. R-3755, entered in Case No. 4123, approving the Kersey Dublin Square Lake Waterflood Project.

Injection is to be through the one authorized water injection well which shall be equipped with cement-lined tubing set in a packer at approximately 2400 feet. The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface to facilitate detection of leakage in the packer, tubing, or casing.

As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 84 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Pe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behoves him to promptly notify both of the aforementioned Commission offices by letter of any change

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

-2-

SANTA FE. NEW MEXICO 87501

Mr. Jason Kellahin Kellahin & Fox Santa Fe, New Mexico

R-3755 May 20, 1969

in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitisation, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

Enclosure

ALP/DSN/ir

cc: Oil Conservation Commission offices in Hobbs and Artesia

Mr. D. E. Gray, State Engineer Office, Santa Pe, New Mexico

#### 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. 4123 Order No. R-3755

APPLICATION OF KERSEY AND COMPANY FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 7, 1969, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 20th day of May, 1969, 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, Kersey and Company, seeks permission to institute a waterflood project in the Square Lake Pool by the injection of water into the Grayburg and San Andres formations through its Dublin Well No. 3, located in the NW/4 NE/4 of Section 3, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

-2-CASE No. 4123 Order No. R-3755

(5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

#### IT IS THEREFORE ORDERED:

- (1) That the applicant, Kersey and Company, is hereby authorized to institute a waterflood project in the Square Lake Pool by the injection of water into the Grayburg and San Andres formations through its Dublin Well No. 3, located in the NW/4 NE/4 of Section 3, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (2) That the subject waterflood project is hereby designathe Kersey Dublin Square Lake Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) 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
OTL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

I f Cartin

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

esa

#### ROUGH DRAFT FOR WATERFLOOD LETTERS

Mr. Jason Kellahin Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico Dear Sir

Exclosed Meserch Commission Order No. R-3755, entered in Case No.

4123, approving the three Public Square Rake
Waterflood Project.

Outselfin is to be Wrough the one author,

god affect interestion when the high shall be

Danighed with cement fined higher set in a

pleker at appropriatel 2400 feet. The coming

tubus, which shall be lossed with an

lure fluid and languaged with appropriate

pleker in the surface the fine fitter at the all of the authorized injection wills have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district provation office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e. when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

cc: OCC: Hobbs x

Aztec

Mr. Frank Irby, State Engineer Office, Santa Fe, New Mexico

Mr. D. E. Gray

#### DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 7, 1969

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 4119:

Application of Union Oil Company of California to directionally drill, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill its Owens Well No. 1 located 1980 feet from the North and East lines of Section 34, Township 14 South, Range 35 East, Lea County, New Mexico. Said well was drilled to a total depth of 11,199 feet and plugged back to approximately 9,000 feet. Applicant proposes to set a whipstock at approximately 9,000 feet and to directionally drill to a depth sufficient to bottom said well in the Lower Hueco formation at a point approximately 2298 feet from the North line and 1662 feet from the East line of said Section 34 (approximately 450 feet Southeast of the surface location.)

CASE 4120:

Application of Sam Boren for the creation of a new gas pool, promulgation of special rules for the pool, a dual completion, and commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Wolfcamp gas pool for his Crowley State "A" Well No. 1 located in Unit L of Section 5, Township 12 South, Range 33 East, Lea County, New Mexico, and for the promulgation of special rules therefor, including a provision for 320-acre proration units. Applicant also seeks approval of the dual completion of said well to produce gas through the casing-tubing annulus from the aforesaid Wolfcamp pool and oil through tubing from the North Bagley-Lower Pennsylvanian Pool, commingling the liquid hydrocarbons from said pools on the lease. Applicant further seeks authority to commingle in the well-bore sufficient Wolfcamp gas to gas lift the Pennsylvanian oil.

CASE 4121:

Application of Roger C. Hanks for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Bar U-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre spacing and proration units and the assignment of 80-acre allowables.

CASE 4122:

Application of Roger C. Hanks for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian

Docket No. 13-69
Examiner Hearing - May 7, 1969
-2-

(Case 4122 continued)

formation in the interval from approximately 12,878 feet to 13,011 feet in his Atlantic Tebworth Well No. 1 located in the SW/4 SW/4 of Section 25, Township 8 South, Range 36 East, Allison Field, Roosevelt County, New Mexico.

CASE 4123:

Application of Kersey and Company 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 Premier and Lovington sands of the Grayburg formation through its Dublin Well No. 3 located in the NW/4 NE/4 of Section 3, Township 17 South, Range 29 East, Square Lake Pool, Eddy County, New Mexico.

#### CASE 3405: (Reopened) - TO BE CONTINUED TO MAY 21, 1969

In the matter of Case No. 3405 being reopened pursuant to the provisions of Order No. R-3081, which order established 640-acre spacing for the North Indian Hills-Morrow Gas Pool, Eddy County, New Mexico, for a period of one year after first pipeline connection in the pool. All interested parties may appear and show cause why said pool should or should not be developed on 320-acre spacing units.

- CASE 4124: Application of Amerada Petroleum Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the State H "A" COM Unit Area comprising 1,281 acres, more or less, of State lands in Sections 18, 19, and 30 of Township 14 South, Range 35 East, Lea County, New Mexico.
- CASE 4125: Application of Continental Oil Company 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 ten wells in Sections 34 and 35, Township 16 South, Range 29 East, Forest-San Andres Pool, Eddy County, New Mexico.
- Application of Curtis Hankamer 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, which order prohibits the disposal of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the applicant's wells located in Sections 12, 13, 14, and 24, Township 26 South, Range 29 East, Brushy-Draw Delaware Pool, Eddy County, New Mexico. Applicant seeks

pocket No. 13-69
Examiner Hearing - May 7, 1969

(Case 4126 continued) authority to continue to dispose of salt water produced by said wells in four unlined surface pits.

- CASE 4127: Application of Curtis Hankamer for an exception to Order No. R-3221, as amended, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for applicant's two wells located in Section 11, Township 24 South, Range 32 East, Double X-Delaware Pool, Lea County, New Mexico. Applicant seeks authority to continue to dispose of salt water produced by said wells in two unlined surface pits.
- CASE 4128: Application of C. O. Fulton 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 Premier and Lovington sands of the Grayburg formation through one well located in Unit D of Section 2, and two wells in Units D and P of Section 3, Township 17 South, Range 29 East, Square Lake Pool, Eddy County, New Mexico,
- CASE 4117: (Continued from the April 23, 1969 Examiner Hearing)

  Application of Eastern Petroleum Company for special pool rules,
  San Juan County, New Mexico. Applicant, in the above-styled
  cause, seeks the promulgation of special rules for the Rattlesnake-Dakota Pool, San Juan County, New Mexico, permitting the
  drilling of wells on 2½-acre spacing provided that no well be
  located nearer than 50 feet to the outer boundary of the quarterquarter section and no nearer than 165 feet to another well producing from the same pool, and provided further, that a 40-acre
  proration unit would be subject to a 40-acre allowable regardless of the number of wells on the unit.
- CASE 4118: (Continued from the April 23, 1969 Examiner Hearing)

Application of Dugan Production Corporation for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle gas production from undesignated Fruitland and Pictured Cliffs gas pools in the well-bore of its Federal "I" Well No. 4, located in the NE/4 NW/4 of Section 1, Township 29 North, Range 14 West, San Juan County, New Mexico.

Docket No. 13-69
Examiner Hearing - May 7, 1969
-4-

CASE 4129: Application of Redfern Development Corporation for gas commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Devils Fork-Gallup gas and Basin-Dakota gas after separately metering the Dakota gas and determining the Gallup production by means of the subtraction method. Said production is from the dually completed Largo Spur Well No. 1 located in Unit J of Section 18, Township 24 North, Range 6 West, Rio Arriba County, New Mexico.

KERSEY & COMPANY

DRILLING AND OIL PRODUCTION

Phone SH 6-3671 • P. O. Box 316 • 808 W. Grand

ARTESIA, NEW MEXICO 88210

April 14, 1969

Case 4/23

Re: Dublin Lease Square Lake Field Eddy County, New Mexico

New Mexico 011 Conservation Commission P. 0. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

We would like if possible for you to include in your May 7th hearing schedule the following:

A water flood project consisting of the W/2 NE/4 of Section 3, T17S, R28E, Eddy County, New Mexico.

Water is to be injected into only one well namely; Kersey & Company Dublin No. 3, located in the NW/4 NE/4 Section 3, T17S, R29E. The zpnes to be flooded are the Premier and Lovington Sand at around 2500 - 26501.

Yours very truly,

KERSEY & COMPANY

Harold Kersey

HK:cg

DOCKET MANEO

Date 4-23-69

#### KERSEY & COMPANY

DRILLING AND OIL PRODUCTION Phone 746-3671 • P. O. Box 316 • 808 W. Grand ARTESIA, NEW MEXICO 88210

May 2, 1969

Waterflood

Square Lak Field

Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mex:co 87501

> Secretary Director, Mr. A. L. Porter, Jr. Attention:

#### Gentlemen:

It is respectfully requested in order to promote conservation that Kersey & Company be given approval for a water flood project in the Square Lake Field, Eddy County which includes the well hereinafter listed. Water will be furnished by Continental Oil Company and will be water from the Double Eagle Corporation.

Hereinafter are listed the proposed injection well:

Kersey & Company, Dublin #3 located 330' South of the North line and 1650' West of the East Line of Section 3, T17S, R29E.

Exhibit "A' shows the area and wells within a two mile radius of the proposed flood and injection wells.

Exhibit "B" shows how each injection well is to be completed.

Copies of the application and attachments of the flood will be mailed to offset operators.

Yours very truly,

KERSEY & COMPANY

HK:cg

Continental Oil Company McCrary & Franklin Kewanee 0:1 Company C. O. Fulton

ENO Y/LES .ом тівінхэ

NOISEWACC) HOLLYWEENON BOOM

SETTUM SEMIMAXE EXORES

Rersey & Co. Flood

Premier & lavinglin Sands 2450-2450

Le Estimated Top of Coment

200'

25/2 @ 408' 50 sacks

Lestimated Top of Coment

200'

25/2 @ 408' 50 sacks

Lestimated Top of Coment

200'

25/2 @ 408' 50 sacks

Lestimated Top of Coment

200'

25/2 @ 408' 50 sacks

Lestimated Top of Coment

200'

25/2 @ 408' 50 sacks

Lestimated Top of Coment

200'

25/2 @ 408' 50 sacks

Lestimated Top of Coment

200'

25/2 @ 408' 50 sacks

Lestimated Top of Coment

200'

25/2 @ 408' 50 sacks

Lestimated Top of Coment

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

Exhibit "B"

Unit B Sec, 3-17-29.

	المعالم المعال	pri अस्ति । चात्रुष्ट करास्त्रक्षक वीर	เราที่เห	33.10.19.00	654 655
17		BEAR MANA	10550	33	2000
1 17-01	Street Street			3 114	Simmon to the . &
1000	1000		03	4.5	
[基]	4 Sugar 1920 20 4 Sugar 1920 20	Harlad Street   Majar later	Branch to A Table		Ed Michael Septemen
	19/115 19/115 5.833145	Raman Raman	10 10 10 10 10 10 10 10 10 10 10 10 10 1	R.S. P.	
les etat	3+1+4: (2)	Blanche Holp NoCottolescosposa		Ab Terrain Commerce Read Terrain	1
j "	29	R'A Heimage in This she Deal		131 141 1	4_
:	. 29	Weste Cer Open Westla 1	273617		
		Margaret'			133 133 100003
co."		Carche Serge Madatherer			18108
·	<b>U.S</b>	R A. Pal way	11.,,,,,,		or min vis. revis ●
is deposit	Sulf Tenneco	E.A. Schwarzing tot a Section 1	5:0:35 1 1:0:311 1 3	A STATE OF	Kowanes (Served)
ម	tins Gerar 5-1135	8530423	in Con	CONTRACTOR	131 1-1-13 0 1
<i>;</i>		Gran Highland	WA. Rightend Johnson 28: Indies- 227777	A4 1937777 (at act act ab)	1 1 749 1
	H 2 B H H 4 2 3 26	11:1:7: 1	49.20 英国 - 25 - 25 - 25 - 25 - 25 - 25 - 25 - 2	tung planing	
(a) g tras.	1 205 32	335 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Nightone.	110 to 135	Kewanee 36 Remo
siling Esper			♦150 (1) (1) (1) (1) (1) (1)	\$3998 ) PB (	950 151 450 551
	:	Learned Levers (West Cert )	term in conve	4 Conft	(102012
cermit	State	Lange Learn (West Cont.	• 5	heard us a grang	The state of the s
The state of	us that man can			de arte la companya de la companya d	10.002 to the teach to the teacher of the teacher o
S B'che	23374	5   1   12   12   13   13   13   13   13	247 19	co.	13122   Feethers   11   121   157
Yafes	Contain Contain	Cantil (Contil Cents, Cantil)	Name of the second	Panaret Gutt CBriscon Lexanes	
101	6 10 10 15 10 15 10 15 10 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15	C A 55	rearly 1	in A built " like	F22 HE-MOTLE'ST CHIP-1251
n Yotes Harry	Conty 25 Conty, Conty	Skilly Carth Second Son	20121713	Sarred Kanonegovier 1	HEV, Kersey
1 666	nio I	livont gomen		1nd 31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"fed-Scal"
	U.S. 25 26 27 7	Contt Contt :	Cont. U.S. Castin		Genonee Hall Kenance Men since
Similaring	952 Seesa State	لا منون ا	e i Brief Shaley Stat	\$ 5514 1 518 E. N. P. S.	Fed Bellingfied State
32	30 37 Confl.	2000 \$1000 1000 32 \$1000 200 1000 32	Sentag	Surray Berassall	Kemphee Kemphee
12.00	Kingsid & Watsan I		เลง	outh (Citati Amer B/s	Sept 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
mer.	·" 42, (1957)			HBP 19916 H.Kegsey (	Kewanee   Eiser,elal
71 1933		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	70 1115 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	578	Kewanee Sider etal
AVE UNIT-	43 43 41 11111	医多种毒素 医二甲基甲二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	. 10	1 700 5048	Kenanes . Kenanga Saiken
NT L.OPEF	Cont. 1833 3000 4	Richfield 102 102 102 102 102 102 102 102 102 102	•3 1•3	1 13. 50	Conditionian land
	50 (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	Sinciair, Partis	1 1 1 1	20 (3 24	toggned Kewanee Section
<b>5</b> .	rialis State	1837 1833 Hale (1-352)	0.5] 2055	U.S. Coes	8201 4 1 Post-Fred-East 125:54
	Tenteco	A Last Comero Votes & Ald	tark begtai e is		(Gri Assin)
Amer.	0397613	teanardigitet geete dat i	Lares Sares	Sugray	Gen Amer.
		Terneco (Enneco 31)114 177	A717	11 01:131 -9 17 7 8	13.14
		267 norma   170 3-1174   18373)   Irdiane   170	29		1 8 8 1
pentai <sup>®</sup>	"Folk-Fed."   7 Tenneco Est	Tennes Sactor 16 Tennes	[ ] 5 S.	3 1 Sunray 18 22 AS	13 65,550
nestal 82 B-5846	# 100 Fork A PANE		10 18 C. 180	18 22 33 19 3020	
All Rich	Ternere 1 33 64 Gent Amer.		Tenneco ( 1 mines	32933	
12:13:76 13:433 12:55	Cast	Seitte   Karry   Colores    January   Colores   Colores    January   Col	3 255 Fa-6.0 170		Grinish Constitution of Grinis
1 59 55		rernezo (Fignac Valua Bassa 65	ElPasol [FEPasol Senaces [Enresol of Senaces [Assert Enresol of Senaces [Senaces of Senaces of Senaces		
Amer. - 71 \$69	miss i Dieni into	erness (1) (e.g., s. v.)		Gen Amer.	Gen Arter Territ 3
	Kincoid Walter   Selet	8: Pars Vari Sensa	S (33)	A STATE OF THE STA	[ [ ] 1 15 CTRICK [
₩.5cc.	Kincold Sincolson   Signal   S	81 Pass Vily Rensol 35 36 37 38 36 180 and 5 6 180 and 5 19 11 181	R PINT	Starting 11, 52	1 11111

EXHIBIT "A"

Shows proposed Flood Area and other wells within

2 mile radius.

prej allow shee

OIL CONSERVATION COMMISSION

EXHIBIT NO. S

CASE NO. 2

<u>DRAFT</u> GMH/esr

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

the state of the s
IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:
CASE No. 4123
Order No. R-3755
APPLICATION OF KERSEY AND COMPANY
FOR A WATERFLOOD PROJECT, EDDY COUNTY,
FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.
ORDER OF THE COMMISSION
BY THE COMMISSION:
This cause came on for hearing at 9 a.m. on May 7 , 1969
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter .
NOW, on thisday of May, 1969, the Commission, 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, Kersey and Company
seeks permission to institute a waterflood project in the
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Promier and Lovington of Sar and the injection of water into the Gands of the Grayburg formations
its Dublin Well No. 3, located in the NW/4 NE/4 of Section
through <u>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</u>
Fownship 17 Markax South, Range 29 XWERK East, NMPM,
Eddy County, New Mexico.
(3) That the wells in the project area are in an advanced
,我们就是我们的一个大大的,我们就没有一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
state of depletion and should proporty be classified as "stripport
state of depletion and should properly be classified as "stripper'
state of depletion and should properly be classified as "stripper'

the recovery of otherwise unrecoverable oil, thereby preventing

waste.

(5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

#### IT IS THEREFORE ORDERED:

(1) That the applicant,	Kersey	and Company	
is hereby authorized to instit	ute a water	flood project in	the
***********	Mnkkxkksa _	Square Lake	Pool
by the injection of water into	Premie the of the	Grayburg of fo	rmations
xsbxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	dxwellsxinx	TOWNSK\$BXXXXXXX	xxxxxx
xNowbhcxxSouthbcxxBaussecxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	************	xxxxxx
жосижения			

through its Dublin Well No. 3, located in the NW/4 NE/4 of Section 3, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.

- (2) That the subject waterflood project is hereby designated the Kersey Dublen Agrare Rube Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) 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.