CASE 3896: Application of KERSEY & HANSON, YATES DRLG. CO. & JOHN TRIGG FOR SEVERAL WATERFLOODS.

Case Number

3896

Application Transcripts.

Small Exhibits

T/C

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico October 23, 1968

EXAMINER HEARING

IN THE MATTER OF:

Application of Kersey & Hanson, Yates Drilling Company and John H. Trigg for several waterflood projects, Eddy County, New Mexico.

Case No. 3896

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

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MR. NUTTER: Call Case 3896.

MR. HATCH: Application of Kersey & Hanson, Yates
Drilling Company and John H. Trigg for several waterflood
projects, Eddy County, New Mexico

MR. NUTTER: The record will show that Mr. Kersey is still under oath.

(Whereupon, Applicants' Exhibits
A through H marked for identification)

* * * * *

HAROLD KERSEY, one of the Applicants, having been previously duly sworn, testified as follows:

* * * * * * *

MR. KERSEY: Here is a couple more of the copies of the proposal that was submitted to the Commission. I also have in that connection, letters from John H. Trigg and Yates Drilling Company authorizing my authority to present their case in conjunction because this is a cooperative deal, before this Commission.

MR. NUTTER: This is actually a composit application of three different companies?

MR. KERSEY: That is right, Kersey & Company, Trigg and Yates Drilling Company.

MR. PORTER: We do have a letter from Yates Drilling Company.

MR. KERSEY: Yes, you mailed one direct and I have copies of it here and I also have copies of a letter from Trigg, which I will submit in evidence.

This flood is in what we term the Y D area and it is productive from the Queen Sand in Section 28, 18, 29, and we considered unitization of the area and then we came upon the idea of instituting a line drive flood which will involve one well of Triggs, one well of Yates Drilling Company and two wells of ours. The water for this injection initially will be obtained from John Trigg's Wolfcamp Discovery well in Section 20, 18, 29. We took the pattern that you see proposed here up with the U.S.G.S. and it was their opinion that using this particular pattern, that no one's rights would be, everyone would have equal rights as far as injection was concerned, and there's only one producing zone in the area which is the Queen and we propose to set a packer above this. If you will turn to, well Exhibit A shows the general area. Exhibit B is the detail of the four injection wells and Exhibit F shows how each well in the flood will be completed. They're all cased through and perforated, packers will be sot with cement-lined tubing on each well and injection will be in that manner.

Initially we are limited on the amount of water,

but Double Eagle has indicated that they will supplement our water supply, perhaps by the end of the year. The production in the area at the present time is down, is knocked down clear out of an economic status and we feel by instituting this flood that results should be obtained that would be economic for all the parties concerned.

EXAMINATION

BY MR. NUTTER:

- Now, you stated that Double Eagle would supplement the water supply. What would be the initial water supply?
- A About 600 barrels. The Wolfcamp well is producing that. This solves a problem for John Trigg because he had no place for this water to go come January the 1st.
 - Q That's from the Wolfcamp?
 - A That's from the Wolfcamp.
 - Where is that Wolfcamp well?
- A It's located in the southeast of the southeast of Section 20, 18, 29.
- Now, Mr. Kersey, referring to Exhibit A, would you describe each of these leases that's involved here?
- A Well, John Trigg's lease is the first lease and it consists of five forty-acre tracts with a south half of the southwest quarter, the southwest quarter of the southeast

quarter, and the northwest quarter of the southwest quarter, and the southwest quarter of the northwest quarter of Section 28, 18, 29.

Q Fine.

A The Kersey and Company and Hanson leases consist of the east half of the northwest quarter, the northeast of the southwest quarter of Section 28 and the southeast quarter of Section 21, and the west half of the northwest quarter of Section 27, all in 18, 29. The Yates Drilling Company lease consists of the northeast quarter of Section 28, 18, 29. We have one other lease I didn't indicate. It's the northwest of the southeast quarter.

- Q That's that Federal Perry Well?
- A That's Federal Perry, that's right.
- Q That actually another lease from the one that you are going to inject on?
 - A That's another lease from what we plan to inject on.
- Q The injection well there in Section 28 on your lease, what is the name of that lease?
 - A That is Kersey and Hanson Y D Lease.
 - O That's the Y D?
 - $A = Y \cdot D$.
 - 9 Federal?

- A Federal.
- Q It has one injection well and two producing wells?
- A That is right.
- Q The Denton Lease up in Section 21 --
 - A It has one producing well and one injection.
 - Q -- the Denton over in Section 27?
 - A Has one producing well.
- Q Has one producing well, and that would be the well down there in the northwest of the southwest, or the one up in the northwest northwest?
 - A Northwest northwest.
- Q So it's a direct offset to the injection well which is on the same lease?
 - A That's right.
 - Q And would earn allowable credit in this project?
 - A That's right.
- Q And the Yates Lease has one injection well and three producing wells?
 - A That's right, one injection and three producing.
- Q The Trigg lease has one injection well and three producing wells?
- A Right. It makes a rather simple pattern, that is simple from several standpoints, saves unitization and I

think our results ought to be as good.

- Q And the operators understand that each lease stands on its own --
 - A . Each lease stands on its own.
 - ? -- as far as allowable and so forth?
 - A That's right.
- What is the average rate of production from these wells?
- A About one barrel or less at this particular time, it's clear down past the economic status.
 - And definitely qualifies as a waterflood project?
 - A That is right.
- Q Would you go into this surface and production casing program in a little more detail, Mr. Kersey
- A Yes. If you will refer to my Exhibit F, you'll see on the Kersey and Hanson Y D No. 2, the 8 and 5/8ths is cemented at 360 feet with 50 sacks and the 5 and 1/2 inch casing was cemented at 2026 with 150 sacks; and on the Yates Drilling Company Y D No. 3, it's also part of the same basic lease as our lease, their 7 inch was cemented at 389 feet with 75 sacks and their 4 and 1/2 inch casing at 2045 feet with 100 sacks; and on the Kersey and Hanson Denton No. 1, the 8 and 5/8ths was at 426 with 50 sacks and the 5 and 1/2

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at 2054 feet with 100 sacks; and on John H. Trigg's Jennings
No. 2, the 7 inch was 407 feet with 100 sacks and the 4 and 1/2
at 2030 with 100 sacks.

Q Did the cement on any of these circulate to the surface?

A So far as I know, they didn't. When these wells were drilled, of course, no thought at that particular time was given to secondary recovery so we put in the required amount of cement and that was that.

Now, three of the wells were cemented with a hundred sacks on the long string and one has 150 sacks, do you have an estimate as to the top of the cement on those?

A I would say the top of cement would be approximately around fourteen to fifteen hundred feet because on one of our wells we did run a survey. I don't remember whether it's one that's in the flood, but we did run a survey on one of them, after we cemented.

- And you have fill up to about 1400?
- A To 1400 feet.
- Q With the same amount of cement?
- A With the same amount of cement.

MR. NUTTER: Are there any other questions of Mr.

Kersey?

MR. PORTER: Just a couple.

EXAMINATION

BY MR. PORTER:

- When were these wells drilled?
- When were the Trigg wells drilled?
- Q When were these wells drilled?
- About ten years ago.
- Q What has been the primary?
- The primary has been around fifteen to twenty thousand barrels.

MR. PORTER: Thank you.

MR. NUTTER: You wish to offer these Exhibits as evidence in the hearing?

MR. KERSEY: Yes.

MR. NUTTER: We have the letter.

MR. KERSEY: Copies of letters from Trigg and also from Yates.

MR. NUTTER: These have been identified as Exhibits G and H. The other exhibits are A through F, so without objection, Kersey's, Yates's and Trigg's Exhibits A through H will be admitted in evidence.

> (Whereupon Applicants' Erhibits A through H admitted in evidence.)

MR. NUTTER: 90 you have anything further in this

case?

MR. KERSEY: I believe that's all for this case.

MR. NUTTER: Does anyone have anything they wish

to offer in Case 3896? We will take the case under advisement.

I N D E X

WITNESS	
HAROLD KERSEY	PAGE
Direct Testimony	2
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EXHIBITS	MARKED	ADMITTED
Applicants' A through H	2	9

STATE OF NEW MEXICO)

COUNTY OF BERNALILLO)

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

WITNESS my hand this 1st day of November, 1968.

Ada Dearnley

I do bereby contify that the foregoing is a constain proceed or for up to be seen in the the process of the process of the foregoing of the process of the foregoing of the foregoing of the foregoing of the foregoing the forego

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

November 4, 1963

Mr. Harold Kersey Kersey & Company Post Office Box 316 Artesia, New Mexico 88210

Dear Sir:

Enclosed herewith is Commission Order No. R-3553, entered in Case No. 3896, approving the Trigg Turkey Track Sivley Waterflood Project, the Kersey & Hanson Turkey Track YD Waterflood Project, the Yates Turkey Track YD Waterflood Project, and the Kersey & Hanson Turkey Track Denton Waterflood Project.

Injection is to be through the one water injection well authorized for each project, each of which shall be equipped with cement-lined tubing set in a packer at approximately 1950 feet. The casing-tubing annulus of each well shall be loaded with an inert fluid and equipped with a pressure gauge to facilitate detection of leakage of the casing, tubing, or packer.

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

Trigg Sivley Project:	168	Barrels
Kersey & Hanson Denton Project:	126	Barrels
Kersey & Hanson YD Project:	126	Barrels
Yates YD Project:	168	Barrels

Please report any error in these calculated maximum allowables immediately, both to the Santa Fe office of the Commission and the appropriate district promation office.

OIL CONSERVATION COMMISSION P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Mr. Harold Kersey Kersey & Company Post Office Box 316 Artesia, New Mexico

In order that the allowable assigned to each project may be kept comment, 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 projects and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

HALP/DSN/ir

cc: Oil Conservation Commission Offices in Hobbs and Artesia, N.M.

Mr. D. E. Gray, State Engineer Office, Santa Fe, 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. 3896 Order No. R-3553

APPLICATION OF KERSEY & HANSON, YATES DRILLING COMPANY, AND JOHN H. TRIGG FOR SEVERAL WATERFLOOD PROJECTS, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 23, 1968, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 4th day of November, 1968, the Commission, a quorum being present, having considered the testimony, the record. and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicants, Kersey & Hanson, Yates Drilling Company, and John H. Trigg, seek permission to institute four cooperative waterflood projects in the Turkey Track Queen-Grayburg Pool by the injection of water into the Queen formation through four injection wells located in Sections 21 and 28, Township 18 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project areas are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed waterflood projects should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

-2-CASE No. 3896 Order No. R-3553

(5) That the subject application should be approved and the projects 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 applicants, Kersey & Hanson, Yates Drilling Company, and John H. Trigg, are hereby authorized to institute the four following cooperative waterflood projects in the Turkey Track Queen-Grayburg Pool by the injection of water into the Queen formation through the following-described wells in Township 18 South, Range 29 East, NMPM, Eddy County, New Mexico:

Kersey & Hanson Turkey Track Denton Waterflood Project

Injection well:

Kersey & Hanson Denton Well No. 1, Unit P, Section 21

Kersey & Hanson Turkey Track YD Waterflood Project

Injection well:

Kersey & Hanson YD Federal Well No. 2, Unit F, Section 28

Yates Turkey Track YD Waterflood Project

Injection well:

Yates Drilling Company YD Well No. 3, Unit B, Section 28

Trigg Turkey Track Sivley Waterflood Project

Injection well:

John H. Trigg Sivley Jennings Well No. 2, Unit L, Section 28

(2) That the subject waterflood projects shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

-3-CASE No. 3896 Order No. R-3553

- (3) That monthly progress reports of the waterflood projects 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
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON 8. HAYS, Member

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

ROUGH DRAFT FOR WATERFLOOD LETTERS

Mr. Harold Kersey Kersey & Company Post Office Box 316 Artesia, New Mexico 88210

Dear Sir:

Enclosed herewith is Commission Order No. R-3553, entered in Case No.
3896 approving the Trigg Turkey Trock Silley Water food Prepet
Waterflood Project the Kersel & Housen Turkey Track VD Waterflood
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H. Karsen & Henson I wrken I rock Danton waterflood Praise
Injection with is to be through the one water
insection were authorized for each project, with lachor
Injection into is to be through the one water injection were authorized for each project, with lack of which shall be equipped with eliment-lined
tuding set in a pocker at approximately 1930 feet.
The Besing-tubing annulus of each will shall be
loaded with an inert flind and compred with a pressure gange to socilitée detection of leakage of the
speakers gauge to poculitate detection of leakage of the
In the chang, tilbing, or packer.
As to allowable pour carculagions inducate that when all of the authorized
injection wells, have been placed on active injection, the maximum allow-
able which this project will be eligible to receive under the provisions
of Rule 701-E-3 is barrols per day when the Southeast New Mexico
normal unit allowable is 42 barrels per day or less as follows:
10

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe 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 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 projects and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

Artesia x
Aztec
USGS

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

Mr. D. E. Gray

Kirsey & Hamon Deuton Project: 126 barrela Kersey & Hamon Deuton Project: 126 barrela Kersey & Hamon YD Project: 126 barrela Yater YD Project: 168 barrela

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 23, 1968

9 A.M. - CIL 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 3894:

Application of Signal Oil and Gas Company for a non-standard oil proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a non-standard oil proration unit comprising the W/2 NE/4 and the N/2 SE/4 of Section 17, Township 10 South, Range 34 East, Vada-Pennsylvanian Pool, Lea County, New Mexico, said unit to be dedicated to its State AP Well No. 1 located 1980 feet from the South line and 660 feet from the East line of said Section 17.

CASE 3895:

Application of Sun Oil Company for a pressure maintenance project, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project in its New Mexico Staté "H" Lease by the injection of water into the San Andres formation through its New Mexico State "H" Well No. 13 located in the SE/4 SE/4 of Section 16, Township 8 South, Range 30 East, Cato-San Andres Pool, Chaves County, New Mexico. Applicant further seeks the promulgation of special rules to govern operation of said pressure maintenance project.

CASE 3887:

(Continued from the October 9, 1968, Examiner Hearing)

Application of Kersey & 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 sand of Grayburg formation through two wells to be located in Units E and K of Section 12, Township 18 South, Range 28 East, Artesia Pool, Eddy County, New Mexico. Applicant further proposes to produce oil from the Upper Grayburg through parallel strings of tubing, if sail zones are productive in the subject wells.

CASE 3896:

Application of Kersey & Hanson, Yates Drilling Company, and John H. Trigg for several waterflood projects. Eddy County, New Mexico. Applicants, in the above-styled cause, seek authority to institute several cooperative waterflood projects by the injection of water into the Queen and Grayburg formations through four injection wells located in Sections 21

October 23, 1968 - Examiner Hearing Page 2

Docket No. 31-68

CASE 3896 continued

and 28. Township 18 South, Range 29 East, Turkey Track Queen-Grayburg Pool, Eddy County, New Mexico.

CASE 3897: Application of Kersey-Wittkopp and E. A. Hanson for two waterflood projects, Eddy County, New Mexico. Applicants, in the above-styled cause, seek authority to institute two cooperative waterflood projects by the injection of water into the Queen formation through two injection wells located in the NW/4 SE/4 and the SW/4 SE/4 of Section 6. Township 19 South, Range 31 East, Shugart Pool, Eddy County, New Mexico.

CASE 3898: Application of Tenneco Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation in the open-hole interval from approximately 3258 feet to 3341 feet in its Ginsberg-Federal Well No. 6 located in Unit E of Section 31, Township 25 South, Range 38 East, Langlie-Mattix Field, Lea County, New Mexico.

CASE 3899: Application of Cities Service Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks authority to dispose of produced salt water into the San Andres formation in the interval from approximately 4087 feet to 4176 feet in its State AD Well No. 8 located in Unit J of Section 22, Township 10 South, Range 32 East, Mescalero-San Andres Pool, Lea County, New Mexico.

CASE 3900: Application of Continental Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks authority to commingle production from the Vacuum Wolfcamp Pool and the North Vacuum Abo Pool in the well-bore of its State H-35 Well No. 7 located 660 feet from the North line and 1780 feet from the East line of Section 35, Township 17 South, Range 34 East, Lea County, Mew Mexico.

CASE 3901: Application of Continental Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formations in the perforat interval from approximately 3330 feet to 3552 feet in its Lynn A-28 Well No. 6 located in Unit H of Section 28, Towns

(CASE 3901 continued)

23 South Range 36 East, Jalmat Pool Lea County New Mexico.

- CASE 3902: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot water-flood project by the injection of water into the Queen formation through its Stevens "B" Well No. 8 located in Unit A of Section 12, Township 23 South, Range 36 East, Langlie-Mattix Pool, Lea County, New Mexico.
- CASE 3903: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Pelaware formation in the perforated intervals from approximately 46.5 feet to 4765 feet in its Payne Well No. 11 and from 4666 feet to 4740 feet in its Payne Well No. 12 located 660 feet from the South line and 1650 feet from the West line of Section 30, 1935 feet from the North line and 2090 feet from the West line of Section 31, respectively, Township 26 South, Range 33 East, El Mar-Delaware Pool, Lea County, New Mexico.
- CASE 3904: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot water-flood project by the injection of water into the Delaware formation through its Thompson Federal 19 Well No. 2 located in Unit F of Section 19, Township 26 South, Range 32 East, North Mason-Delaware Pool, Lea County New Mexico.
- CASE 3905: Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico. Applicant in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the open-hole interval from approximately 12,269 feer to 12,541 feet in its State "O" Well No. 1 located in Unit J of Section 15, Township 10 South, Range 36 East, South Crossroads-Devonian Pool, Lea County, New Mexico.

- CASE 3906: Application of Skelly Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Queen formation through its Mattix "A" Well No. 4 located in Unit K of Section 2, Township 24 South, Range 37 East, Langlie-Mattix Oil Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively without a showing of well response.
- CASE 3907: Application of Skelly Oil Company for a waterflood project, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot water-flood project by the injection of water into the San Andres formation through its Hobbs "W" Well No. 9 located in Unit F of Section 29, Township 7 South, Range 34 East, Chaveroo-San Andres Pool, Roosevelt County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively without a showing of well response.
- CASE 3908: Application of Pan American Petroleum Corporation for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from approximately 3932 feet to 4027 feet in its Miller Federal Well No. 4 located in Unit L of Section 35, Township 7 South, Range 31 East, Tom-Tom San Andres Pool, Chaves County, New Mexico.
- CASE 3909: Application of Champlin Petroleum Company for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into San Andres formation, Chaveroo-San Andres Pool, Roosevelt County, New Mexico, through the following two wells located in Township 7 South, Range 33 East:

Champlin Lauck-Federal Well No. 12, Unit J of Section 29; Disposal Interval -4202 feet to 4404 feet;

Champlin State 32-7-33 Well No. 5, Unit J of Section 32; Disposal Interval - 4303 feet to 4425 feet.

October 23, 1968 - Examiner Hearing Page 5

CASE 3910: Application of Atlantic Richfield Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Bough "C" zone of the Pennsylvanian formation underlying the SW/4 of Section 17, Township 10 South, Range 34 East, Vada-Pennsylvanian Pool, Lea County, New Mexico, Said acreage to be dedicated to a well located in the NE/4 SW/4 of said Section 17.

CASE 3911: Application of Atlantic Richfield Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Bough "C" zone of the Pennsylvanian formation underlying the SE/4 of Section 8, Township 10 South, Range 34 East, Vada-Pennsylvanian Pool, Lea County, New Mexico. Said acreage to be dedicated to a well located in the NW/4 SE/4 of said Section 8. In the alternative applicant seeks approval of a non-standard oil proration unit comprising the E/2 SE/4 of said Section 8 and the W/2 SW/4 of Section 9, said Township and Range, said unit to be dedicated to a well to be drilled in the NE/4 SE/4 of said Section 8.

CASE 3882: (Continued from the October 9, 1968, Examiner Hearing)

Application of Solar Oil Company for a special gas-cil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 506 of the Commission Rules and Regulations to provide for a limiting gas-oil ratio of 6,000 cubic feet of gas per barrel of oil in the Teague Blinebry Pool, Lea County, New Mexico.

CASE 3883: (Continued from the October 9, 1968, Examiner Hearing)
Application of Solar Oil Company for a special gas-oil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 506 of the Commission Rules and Regulations to provide for a limiting gas-oil ratio of 6,000 cdbic feet of gas per barrel of oil in the Imperial Tubb-Drinkard Pool, Lea County, New Mexico.



YATES DRILLING COMPANY YATES BUILDING - 207 SOUTH ATH ST. - DIAL 746.3558

S. P. YATES, PRESIDENT

HUGH W. PARRY. SEC. TREAS.

ARTESIA. NEW MEXICO - 88210 October 16, 1968

Carl 3896

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

Attn: Secretary Director, Mr. A. L. porter Jr.

Kersey & Company Waterflood project Turkey Track Queen Grayburg Field

Dear Sir:

Please regard this letter as support for Mr. Harold Kersey in his application dated October 1, 1968, for the installation of a waterflood project on certain oil and gas leases in Section's 21 and 28, Township 18 South, Range 29 East, Eddy County, New Mexico.

We have by copy of this letter also given Mr. Harold Kersey authority to represent Yates Drilling Company on the subject and case.

sincerely, Paul synthite Paul G. White Engineer

off for 11 May 6 61)

PGW/gs

cc: Mr. Harold Kersey

KERSEY & COMPANY

DRILLING AND OIL PRODUCTION
Phone SII 6-3672 • P. O. Box 316 • 808 W. Grand
ARTESIA, NEW MEXICO 88210

October 1, 1968

Re: Water Flood Project, Turkey Track Queen Grayburg Field

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

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

Dear Sir:

It is respectfully requested that in order to promote conservation Kersey & Hanson, Yates Drilling Company, and John H. Trigg be given approval for the water flood project which includes the injection wells hereinafter listed.

This project will be a cooperative flood with each party injecting into his own well, producing his own oil and having an allowable based on his own total productive acreage.

A line drive pattern is projected, and later it may be developed further by additional injection wells.

It is proposed to use the produced Wolfcamp water of John H. Trigg from his well located in SE SE Section 20, T185, R29E, This will be supplemented with water from Double Eagle Corporation when it becomes available.

Hereinafter are listed the proposed injection wells:

John H. Trigg, Sivley Jennings #2, located in NW SW, Section 28, T18S, R29.
Kersey & Hanson Y. D. #2, located in SE NW, Section 28, T18S, R29E.
Yates Drilling Company Y. D. #3, located in NW NE Section 28, T18S, R29E.
Kersey & Hanson Denton #1, located in SE SE Section 21, T18S, R29E.

 \quad Exhibit "A" shows the area and wells within 2 mile radius of the proposed flood.

Exhibit "B" shows in detail the proposed flood.

CIL CONTRON CONTRON CASE NO.

October 1, 1968 Page 2 011 Conservation Commission

Exhibit "C", "D", "E", and "F" shows how each injection well is to be completed.

Copies of this application and attachments will be sent to all offset operators as listed below, and also to the U.S.G.S. office.

The operators constituting this cooperative flood will upon approval of the flood immediately notify the New Mexico Oil Conservation Commission of injection operations and abide by the rules and regulations as set out in the Order and will also file and maintain accurate records as required by the New Mexico Oil Conservation Commission.

Yours very truly,

KERSEY & COMPANY

Harved Kusey
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cc: U.S.G.S. Bond Operating Company Gordon M. Cone Yates Drilling Company

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EXHIBIT "A"

Shows proposed Flood Area and other wells within

2 mile radius.

CASE NO. 3896

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Exhibit "B"

Aportion of Turkey Track Queen field Eddy County, N. Mex.

CAPT NO 日本でとう 17 アンドラス 3896 Exhibit "C" Kersey- Hanson K.D. #2 1950-Tension
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YATES DRILLING COMPANY YAYES BUILDING -- SOY BOURS AYA BY, -- DIAL 746.8535

3. 2. YATES, PARGIDENT

HUGH W. PARRY.

ARTESIA, NEW MEXICO - 28210 October 16, 1968

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

Attn: Secretary Director, Mr. A. L. Porter Jr.

Re: Kersey & Company Waterflood Project Turkey Track Queen Grayburg Field

Dear Sir:

Please regard this letter as support for Mr. Harold Kersey in his application dated October 1, 1968, for the installation of a waterflood project on certain oil and gas leases in Section's 21 and 28, Township 18 South, Range 29 East, Eddy County, New Mexico.

We have by copy of this letter also given Mr. Harold Kersey authority to represent Yates Drilling Company on the subject and case.

> Sincerely, Paul sublite

Paul G. White Engineer

PGW/gs

cc: Mr. Harold Kersey

BEFORE EXAMINER NUTTER

CIE CALIFORNATION CAR HOLD IN exhibit no. <u>G</u>

JOHN H. TRIGG COMPANY P. O. BOX 520 ROSWELL, NEW MEXICO 88201

October 15, 1968

Mr. Harold Kersey Kersey and Company P. O. Box 316 Artesia, New Mexico 88210

Water Flood Project T18S-R29E Eddy Courty, New Mexico

Dear Mr. Kersey:

This letter will serve as your authority to represent our Company at the hearing to be held in Santa Fe on October 23, regarding the West Turkey Track Water Flood Project.

Very truly yours,

Dick Woodgouse

R. W. Waggoner Executive Assistant to John H. Trigg

ms

KERSEY & COMPANY

DRILLING AND OIL PRODUCTION

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

ARTESIA, NEW MEXICO 88210

October 1, 1968

Re: Water Flood Project, Turkey Track Queen Grayburg Field

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

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

Dear Sir:

It is respectfully requested that in order to promote conservation Kersey & Hanson, Yates Drilling Company, and John H. Trigg be given approval for the water flood project which includes the injection wells hereinafter listed.

This project will be a cooperative flood with each party injecting into his own well, producing his own oil and having an allowable based on his own total productive acreage.

A line drive pattern is projected, and later it may be developed further by additional injection wells.

It is proposed to use the produced Wolfcamp water of John H. Trigg from his well located in SE SE Section 20, 718S, R29E, This will be supplemented with water from Double Eagle Corporation when it becomes available.

Hereinafter are listed the proposed injection wells:

John H. Trigg, Sivley Jennings #2, located in NW SW, Section 28, T18S, R29.
Kersey & Hanson Y. D. #2, located in SE NW, Section 28, T18S, R29E.
Yates Drilling Company Y. D. #3, located in NW NE Section 28, T18S, R29E.
Kersey & Hanson Denton #1, located in SE SE Section 21, T18S, R29E.

Exhibit $^{11}A^{11}$ shows the area and wells within 2 mile radius of the proposed flood.

Exhibit "B" shows in detail the proposed flood.

October 1, 1968 Page 2 Oil Conservation Commission

Exhibit "C", "D", "E", and "F" shows how each injection well is to be completed.

Copies of this application and attachments will be sent to all offset operators as listed below, and also to the U.S.G.S. office.

The operators constituting this cooperative flood will upon approval of the flood immediately notify the New Mexico Oil Conservation Commission of injection operations and abide by the rules and regulations as set out in the Order and will also file and maintain accurate records as required by the New Mexico Oil Conservation Commission.

Yours very truly,

KERSEY & COMPANY

Harold Kersey

HK:cg

CC: U.S.G.S.

Bond Operating Company

Gordon M. Cone

Yates Drilling Company

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EXHIBIT "A"

	Shows proposed Fl	ood Area and other wells within	1	42
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Apartion of Turkey Track Queen field Eddy County, N. Mex.

Exhibit "B"

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KERSEY & COMPANY

DRILLING AND OIL PRODUCTION
Phone SH 6-3671 • P. O. Box 316 • 808 W. Grand ARTESIA. NEW MEXICO 88210

October 1, 1968

Case 3896

Re: Water Flood Project, Turkey Track Queen Grayburg Field

State of New Mexico Oil Conservation Commission P. 0. Box 2088 Santa Fe, New Mexico 87501

Attention: Secrétary Director, Mr. A. L. Porter, Jr.

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Exhibit "A" shows the area and wells within 2 mile radius of the proposed flood.

Exhibit "B" shows in detail the proposed flood.

DOCKEL WATER

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October 1, 1968 Page 2 Oil Conservation Commission

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Conservation Commission of injection operations and abide by the Conservation commission or injection operations and abide by the rules and regulations as set out in the Order and will also file and maintain accurate records as required by the New Mexico 011

Yours very truly,

KERSEY & COMPANY

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cc: U.S.G.S. Bond Operating Company Gordon M. Cone Yates Drilling Company

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EXHIBIT "A"

Shows proposed Flood Area and other wells within 2 mile radius.

Case 3896

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Apartion of Turkey Track Queen field Eddy County, N. Mex.

Injection Well

Exhibit "B"

Exhibit "C" Kersey- Hanson 人口 \$2 23/6" Tubing @ 1950-Tension Pucker 1985-2000 2026' 150 Sax בא אי שיל "ס" Yates Prilling Co. 2045 100 Sax 1950 Tension = Perf. 1983-2000 7" CS3 75 SAX Ressey - Hanson Denton#1 ロメカioit ma 1950 - Tension 5 to 2054 je Perf. 2002'-26' 85° @ 426° John H. Trigg Swedy-Jennings#2 日本からさせで 1950' TUBING 1950' TURSING TORCKET 100 Sax 100 Sex

DRAFT

GMH/esr

OF THE STATE OF NEW MEXICO

MAR

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

CASE No. 3896

Order No. R- 355

APPLICATION OF KERSEY & HANSON, YATES DRILLING COMPANY, AND JOHN H. TRIGG FOR SEVERAL WATERFLOOD PROJECTS, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 23 , 1968 at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this <u>day of Med</u>, 1968, the Commission, a guorum 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 applicants, Kersey & Hanson, Yates Drilling four Company, and John H. Trigg, seek permission to institute three cooperative waterflood projects in the Turkey Track Queen-Grayburg Pool by the injection of water into the Queen and Grayburg formations through four injection wells located in Sections 21 and 28, Township 18 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project areas are in an advanced state of depletion and should properly be classified as "stripper" wells.

- (4) That the proposed waterflood projects should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the subject application should be approved and the projects 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 applicants, Kersey & Hanson, Yates Drilling
Company, and John H. Trigg, are hereby authorized to institute

four
the following cooperative waterflood projects in the Turkey Track
Queen-Grayburg Pool by the injection of water into the Queen and
Grayburg formations through the following-described wells in Township 18 South, Range 29 East, NMPM, Eddy County, New Mexico:

Tring Kerse, of Hanson Turkey Track Denton with Let Wherfood Oragest
Injection well:

John H. Tring Sinle, Jenning Ideal Web. 2 1 28

Kersey and Hanson Oenton Well no. 1, Chink P, Attin 21

Kersey & Hanson Turkey Track YD Walterflood Project Injection well: Kersey & Nomen YO Federal Well no. 2, think F, Set 28

yster Turkey Track YD weer flood Project
Injection wees:

yeter Orilling Company y D Well no. 3 thit B, Se 28

Trigg Turkey Track Sivley water flood Project

John H. Irigg tracky Sixley Jennings Well No. 2 With Se 28

- (2) That the subject waterflood projects 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 projects herein authorized shall be submitted to the Commission in accor-

(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.