

CASE 2781: Application of JOHN H.
TRIGG CO. for three water injection
wells - CHAVES COUNTY, N. MEX.

105a / 10.

2581

plication, Transcript,
and Exhibits, Etc.

DRAFT

JMD/esr
April 16, 1963

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. 2781

Order No. R- 2470

APPLICATION OF JOHN H. TRIGG COMPANY
FOR THREE WATER INJECTION WELLS, CHAVES
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on April 10, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this _____ day of April, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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, John H. Trigg Company, seeks authority to expand its Caprock-Queen Waterflood Project by converting to water injection the following-described wells located in Section 9, Township 14 South, Range 31 East, NMPM, Caprock-Queen Pool, Chaves County, New Mexico:

Federal Trigg Well No. 17-9, located in Unit N
Federal Trigg Well No. 26-9, located in Unit L
Federal Trigg Well No. 28-9, located in Unit D

(3) That since the subject wells have not received a substantial response to water injection and do not offset a producing well which has received such a response, they are not eligible for administrative approval for conversion to water injection under the provisions of Order No. R-1456.

(4) That the applicant has entered into ~~well~~(line) agreements with offset operators to the west and to the south of Section 9, Township 14 South, Range 31 East, NMPM, Chaves County, New Mexico, concerning the three subject wells.

(5) That the said line well agreements are in the interest of conservation, and that approval of the subject application will protect correlative rights.

(6) That approval of the subject application will not cause waste.

IT IS THEREFORE ORDERED:

(1) That the applicant, John H. Trigg Company, is hereby authorized to expand its Caprock-Queen Waterflood Project by converting to water injection the following-described wells ~~located~~ in Section 9, Township 14 South, Range 31 East, NMPM, Caprock-Queen Pool, Chaves County, New Mexico:

Federal Trigg Well No. 17-9, located in Unit N
Federal Trigg Well No. 26-9, located in Unit L
Federal Trigg Well No. 28-9, located in Unit D

(2) 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

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member

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

MAIN OFFICE 000



1963 MAR 25 AM 8:16 STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

March 25, 1963

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of John H. Trigg dated March 20, 1963 which seeks administrative approval to convert the following wells to water injection:

Federal Trigg 17-9, Unit N, Sec. 9, T. 14 S., R. 31 E.
Federal Trigg 26-9, Unit L, Sec. 9, T. 14 S., R. 31 E.
Federal Trigg 28-9, Unit D, Sec. 9, T. 14 S., R. 31 E.

The diagrammatic sketch accompanying the copy of the application received in this office which shows the casing and cementing program also shows that the well will be equipped with tubing and packer through which the water will be injected. The packer is set well below the top of the cement outside the 5½" casing and it appears that there will be no threat of contamination to the fresh waters which may exist in the area. Therefore, this office offers no objection to the granting of the application.

Yours truly,

S. E. Reynolds
State Engineer

By:

Frank E. Irby
Frank E. Irby
Chief

Water Rights Division

ma
cc-John H. Trigg Co.
F. H. Hennighausen



OFFICE 000

1963 MAR 25 AM 8:30

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

March 22, 1963

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of John H. Trigg dated March 20, 1963 which seeks administrative approval for the conversion of the following wells, to water injection:

Federal Trigg 17-9, Unit N, Section 9, T-14S, R-31E
Federal Trigg 26-9, Unit L, Section 9, T-14S, R-31E
Federal Trigg 23-9, Unit D, Section 9, T-14S, R-31E

The diagrammatic sketch accompanying the copy of the application received in this office which shows the casing and cementing program also shows that the wells will be equipped with tubing and packer through which the water will be injected. The packer is set well below the top of the cement outside the 5½" casing and it appears that there will be no threat of contamination to the fresh waters which may exist in the area. Therefore, this office offers no objection to the granting of the application.

Yours very truly,

S. E. Reynolds
State Engineer

By *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Division

ma
cc-Mr. John H. Trigg
F. H. Hennighausen

MAILED

3/29/63
[Signature]

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 4/15/63

CASE 2781

Hearing Date 9am 4/10/63

DSN @ SF

My recommendations for an order in the above numbered cases are as follows:

Enter an order authorizing
John H. Trigg to convert to
water injection in his Caprock Queen
water flood Project the following
wells:

Federal Trigg	17-9	Unit N	Sec 9	T14S	R31E
"	"	26-9	"	L	"
"	"	28-9	"	D	"

Find that although these wells have
not rec'd a response to the water injection
program currently being carried out,
nor do they offset wells which have
received such a response, their
conversion at this time is desirable
in the interest of protecting correlative
rights, in that they are included
in a line agreement between the
applicant and the water flood project operators
to the west and the south who are
authorized to convert certain wells
offsetting the applicant's property.

San Juan.

No. 11-63

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 10, 1963

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, as alternate Examiner:

- CASE 2780: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Petroleum Consultants and all other interested parties to appear and show cause why the State Well No. 1 located 660 feet from the South and East lines of Section 2, Township 1 North, Range 20 East, De Baca County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.
- CASE 2781: Application of John H. Trigg Company for three water injection wells, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to convert its Federal Trigg Wells Nos. 17-9, 26-9, and 28-9, located in Units N, L, and D respectively, Section 9, Township 14 South, Range 31 East, Caprock-Queen Pool, Chaves County, New Mexico, to water injection off-setting Phillips Petroleum Company's West Caprock waterflood project.
- CASE 2782: Application of Texaco Inc., for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 320-acre non-standard gas proration unit comprising the E/2 SW/4, S/2 SE/4, NE/4 SE/4, E/2 NE/4, and NW/4 NE/4 of Section 12, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to its Roy Riddel Well No. 1 located in Unit N of Section 12.
- CASE 2783: Application of Pan American Petroleum Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of its Southland Royalty "A" Well No. 8, located in Unit W, Section 4, Township 21 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) to produce oil from the Blinebry Oil Pool, Tubb Gas Pool, and Drinkard Pool through parallel strings of tubing.
- CASE 2784: Application of Continental Oil Company for authority to conduct interference tests, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to shut-in one Oil Center Blinebry well on its Meyer B-4 Lease, Section

4, Township 21 South, Range 36 East, Lea County, New Mexico, to observe pressure behavior and to transfer said well's allowable to other wells on said lease for a period not to exceed 90 days.

CASE 2785: Application of DOB Oil Properties, Inc., for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Northeast Anderson Ranch Unit Area, comprising 1680 acres of State land in Township 15 South, Range 32 East, Lea County, New Mexico.

CASE 2786: Application of Apache Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Maljamar North Unit Area, comprising 1600 acres of State land in Township 16 South, Ranges 32 and 33 East, Lea County, New Mexico.

CASE 2787: Application of Cabot Corporation for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the unorthodox location of its John R. Thompson Well No. 1 at a point 1980 feet from the South line and 330 feet from the West line of Section 23, Township 11 South, Range 33 East, North Bagley-Wolfcamp Pool, Lea County, New Mexico.

CASE 2788: Application of Ralph Lowe for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of his Indian Basin "A" Well No. 1, located in Unit J of Section 22, Township 21 South, Range 23 East, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Indian Basin-Upper Pennsylvanian Gas Pool and the Indian Basin-Morrow Gas Pool through parallel strings of tubing.

CASE 2789: Application of Sam Boren Oil for a salt water disposal dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Robinson Well No. 1, located in Unit H, Section 23, Township 9 South, Range 33 East, Lea County, New Mexico, in such a manner as to produce oil from the Bough "C" zone of the Pennsylvanian formation and to dispose of produced salt water through the intermediate casing annulus into the open-hole interval from 4184 feet to approximately 5700 feet.

JOHN H. TRIGG COMPANY

P. O. BOX 106

MALJAMAR, NEW MEXICO

MAIN OFFICE 000

1963 MAR 22 AM 8:22

March 20, 1963

Oil Conservation Commission
State of New Mexico
P.O. Box 871
Santa Fe, New Mexico

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

Gentlemen:

John H. Trigg, the operator of a waterflood project in the Caprock Queen Field, as per order R-1456, request administrative approval for the conversion of the following wells:

Federal Trigg 17-9, Unit N, Section 9, T-14S, R-31E
Federal Trigg 26-9, Unit L, Section 9, T-14S, R-31E
Federal Trigg 28-9, Unit D, Section 9, T-14S, R-31E

These wells do not comply with requirements for conversion as provided in Rule 701 but are necessary to protect correlative rights with the Phillips Petroleum Company's West Caprock Unit. New Mexico Oil Conservation Commission Order R-2336 authorized 17 wells in the West Caprock Unit to be converted simultaneously, thus to cooperate and protect correlative rights it will be necessary for John H. Trigg to convert the above mentioned wells to water injection. John H. Trigg and Phillips Petroleum Co. have entered into a line agreement along the common line between the two properties, in order to protect correlative rights and to promote good conservation practices.

Water will be injected into the Queen formation through cement lined tubing with a packer set approximately 200 feet below the calculated cement top.

Copies of this letter have been sent to each offset operator and the State Engineer.

Very truly yours,

John H. Trigg Company

Jack R. McGraw
Jack R. McGraw

Petroleum Engineer

DOCKET MAILED

Date 3-29-63
JH

JOHN H. TRIGG COMPANY

P. O. BOX 106

MALJAMAR, NEW MEXICO

Attachment

cc:

State Engineer

Attention: Mr. Frank Irby

P. O. Box 1069

Santa Fe, New Mexico

Oil Conservation Commission

B. O. Box 2045

Hobbs, New Mexico

Cities Service Oil Company

P. O. Box 97

Hobbs, New Mexico

Phillips Petroleum Company

P. O. Box 2105

Hobbs, New Mexico

JOHN H. TRIGG COMPANY

P.O. BOX 106

MALJAMAR, NEW MEXICO

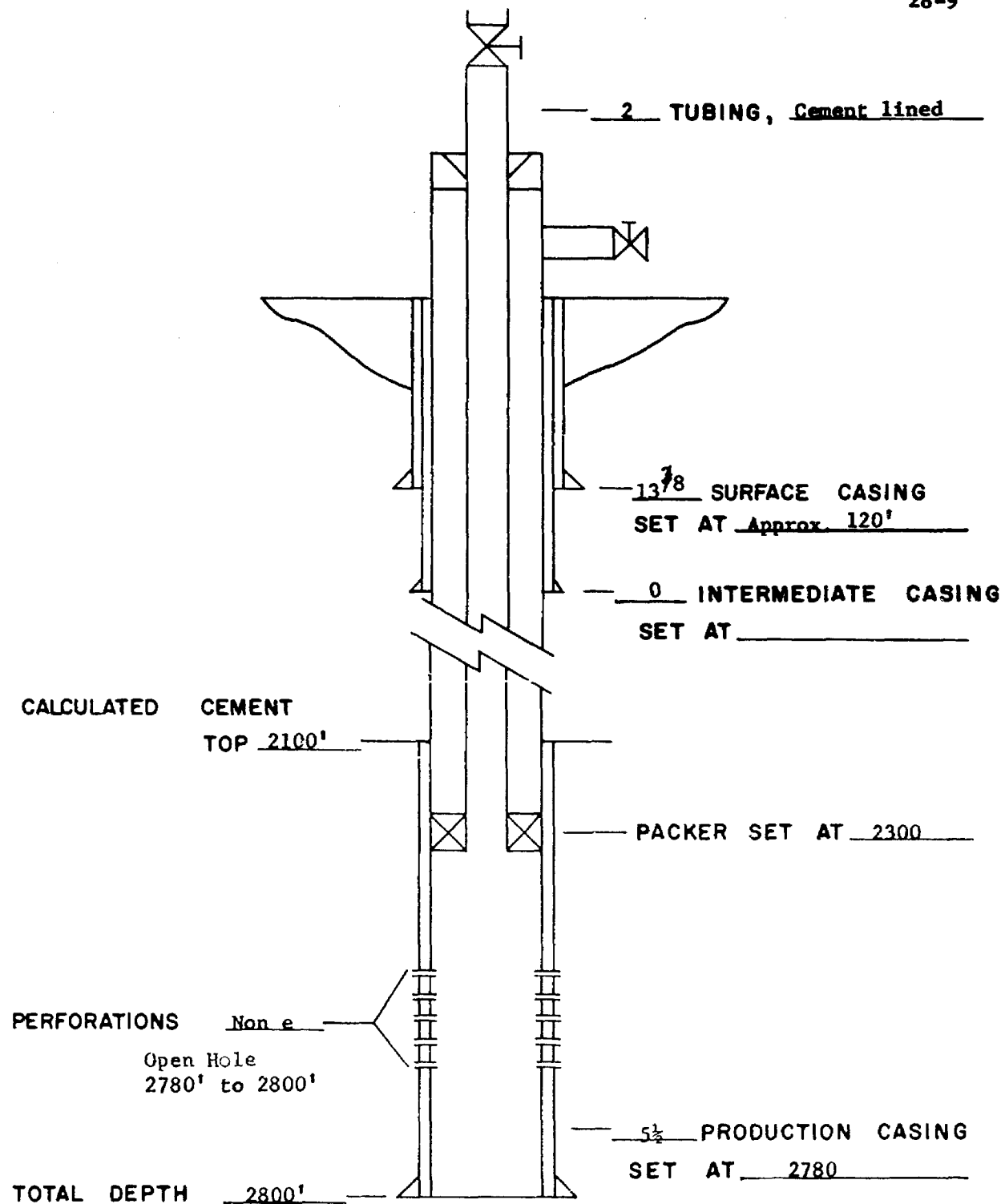
INJECTION WELL SCHEMATIC

PROJECT c Caprock Queen Water Flood

FIELD Caprock Queen LEASE or TRACT Fed. Trigg WELL NO. 17-9

26-9

28-9



GOVERNOR
JACK M. CAMPBELL
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER

P. O. BOX 871
SANTA FE

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

April 22, 1963

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Box 1713
Santa Fe, New Mexico

Re: Case No. 2781
Order No. R-2470
Applicant:
John H. Trigg

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.
A. L. PORTER, Jr.
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC x

Artesia CCC x

Aztec OCC

OTHER Mr. Frank Irby

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. 2781
Order No. R-2470

APPLICATION OF JOHN H. TRIGG COMPANY
FOR THREE WATER INJECTION WELLS, CHAVES
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on April 10, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 22nd day of April, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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, John H. Trigg Company, seeks authority to expand its Caprock-Queen Waterflood Project by converting to water injection the following-described wells in Section 9, Township 14 South, Range 31 East, NMPM, Caprock-Queen Pool, Chaves County, New Mexico:

Federal Trigg Well No. 17-9, located in Unit N
Federal Trigg Well No. 26-9, located in Unit L
Federal Trigg Well No. 28-9, located in Unit D

(3) That since the subject wells have not received a substantial response to water injection and do not offset a producing well which has received such a response, they are not eligible for administrative approval for conversion to water injection under the provisions of Order No. R-1456.

(4) That the applicant has entered into line well agreements with offset operators to the west and to the south of

-2-

CASE No. 2781
Order No. R-2470

Section 9, Township 14 South, Range 31 East, NMPN, Chaves County, New Mexico, concerning the three subject wells.

(5) That the said line well agreements are in the interest of conservation, and that approval of the subject application will protect correlative rights.

(6) That approval of the subject application will not cause waste.

IT IS THEREFORE ORDERED:

(1) That the applicant, John H. Trigg Company, is hereby authorized to expand its Caprock-Queen Waterflood Project by converting to water injection the following-described wells in Section 9, Township 14 South, Range 31 East, NMPN, Caprock-Queen Pool, Chaves County, New Mexico:

Federal Trigg Well No. 17-9, located in Unit N
Federal Trigg Well No. 26-9, located in Unit L
Federal Trigg Well No. 28-9, located in Unit D

(2) 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

Jack M. Campbell

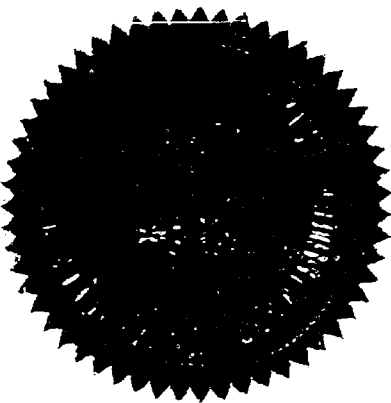
JACK M. CAMPBELL, Chairman

E. S. Walker

E. S. WALKER, Member

A. L. Porter, Jr.

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



esr/

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
April 10, 1963

EXAMINER HEARING

IN THE MATTER OF:

Application of John H. Trigg Company for three
water injection wells, Chaves County, New Mexi-
co. Applicant, in the above-styled cause,
seeks authority to convert its Federal Trigg
Wells Nos. 17-9, 26-9, and 28-9, located in
Units N, L, and D respectively, Section 9,
Township 14 South, Range 31 East, Caprock-
Queen Pool, Chaves County, New Mexico, to
water injection off-setting Phillips Petroleum
Company's West Caprock waterflood project.

Case 2781

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

MR. NUTTER: We will call next Case 2781.

MR. DURETTE: Application of John H. Trigg Company
for three water injection wells, Chaves County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, rep-
resenting the applicant. I would like to have the witness sworn,
please.

(Witness sworn.)

JACK R. MCGRAW

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



DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A Jack McGraw.

Q By whom are you employed and in what position?

A By Mr. John H. Trigg, as a reservoir and production engineer.

Q Mr. McGraw, have you ever testified before the Oil Conservation Commission?

A No, sir, I have not.

Q For the benefit of the Examiner, would you outline briefly your educational background and your experience as a petroleum engineer?

A I was graduated from the University of Texas in 1959 with a B. S. in petroleum engineering. My first employment was with the Dow Chemical Company in Artesia, New Mexico. I worked there for one year in an engineering capacity. I took the job that I now hold with Mr. Trigg in June, '60. I've been employed as a production and reservoir engineer for the past three years.

Q That's with John Trigg?

A Yes, sir.

Q What area do you work in?

A I work in this area, mainly in the Caprock-Queen Field

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ALBUQUERQUE, N. M.
PHONE 243-6691

on this waterflood project.

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

MR. NUTTER: Yes, they are.

Q Mr. McGraw, are you familiar with the application of John H. Trigg in Case 2781?

A Yes, sir.

Q Would you state briefly what's proposed by Mr. Trigg in this case?

A We propose to convert three wells to water injection in order to protect the correlative rights.

Q Do you have a plat showing the area involved here?

A Yes.

(Whereupon, Applicant's Exhibit No. 1 was marked for identification.)

Q Referring to what has been marked as Exhibit No. 1, will you identify that exhibit and state what's shown thereon?

A All right. The John H. Trigg Federal Trigg lease is outlined in yellow. The Cities Service Dricky-Queen Unit is outlined in red; the Phillips Petroleum West Cap-Queen Unit is outlined in black, portions of it. This plat is a portion of the Caprock-Queen Field, Chaves County, New Mexico, portions of Township 13, 14 South, Range 31 East.



The wells in question are the Wells No. 17, 26 and 28 in Section 9 of 14, 31. They are indicated by a broken circle colored with yellow. The broken circle to the Southwest, enclosing the wells that have this broken circle, indicate presently approved injection wells. They are not on injection wells, but they have been approved by the O.C.C. The wells to the Northeast with the penciled circle around, they are present injection wells. The wells indicated by a dot are present producing wells.

Q The John H. Trigg presently has a waterflood project going on their Federal Trigg lease, is that correct?

A That's right.

Q And the acreage is offset directly by the Phillips West Cap-Queen Unit and the Cities Service Dricky-Queen Unit?

A That's right.

Q They are both under waterflood, are they?

A The Phillips Unit is in the process of injecting water now. They are not presently injecting any water, but they will be in the next week or so.

Q The three subject wells are not on pattern of the present injection program, is that correct?

A Yes, these three wells, they follow the pattern.

Q What occasions this application to the Commission at this time?

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PHONE 243 6691



DEARNLEY-MEIER REPORTING SERVICE, Inc.

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PHONE 983.3971

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PHONE 243.6031

A Well, the approval of the 17 injection wells in the West Caprock for Phillips causes us to have to get approval for these three wells.

Q Does the approval of three injection wells for Cities Service have anything to do with it, too?

A Yes, we have a line agreement with Cities Service in this same area, and we've agreed to put these wells on.

Q Do you have a line agreement with Phillips?

A Yes, we do.

Q Is all the acreage Federal, State or fee?

A All of our acreage is Federal.

Q Do you have the approval of the United States Geological Survey for putting these wells on injection?

A Yes, we do, subject to Oil Conservation Commission approval.

Q Has this application been submitted to the office of the State Engineer?

A Yes, and we have a letter approving that.

Q In your opinion as a petroleum engineer, is the approval of these wells for water injection essential to protect the correlative rights of John H. Trigg Company?

A Yes, sir, very definitely so.

Q Was Exhibit No. 1 prepared by you or under your



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325.1182

SANTA FE, N. M.
PHONE 983.3971

ALBUQUERQUE, N. M.
PHONE 243.6031

supervision?

A Yes, sir.

MR. KELLAHIN: At this time I would like to offer in evidence Exhibit No. 1.

MR. NUTTER: Exhibit No. 1 will be admitted in evidence.

MR. KELLAHIN: That completes the direct examination of the witness.

MR. NUTTER: Any questions of Mr. McGraw?

CROSS EXAMINATION

BY MR. NUTTER:

Q This waterflood that is operated by John Trigg is of the capacity allowable type, is it not?

A Yes, sir.

Q You have circled Well No. 29 there in Unit M of Section 4 with a pencil?

A Yes.

Q That well is on water injection?

A It was one of the original wells put on in order to stop oil migration into the gas-cap area. Wells No. 29, 34, 35 and 36 were drilled for that purpose, in order to build a water barrier between our oil zone and our gas cap.

Q Would 34 and 36 also be injection wells, then?



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ALBUQUERQUE, N. M.
PHONE 243-3691

A 34 and 36 have already been plugged. We have moved in with the injection almost a half a million barrels of water in those wells. When we put Well No. 30, which is to the East of 34, we put it on injection in order to comply with the pattern of the field, we plugged the 34. We put Well No. 32 on injection, we plugged 36.

Q So both of those were used to saturate the gas cap and then when that was completed, you plugged?

A Yes, sir.

Q No. 35 is still on injection?

A It's still on its pattern well.

Q So, of the wells that are used for injection at the present time, 29 is the only one off pattern?

A It's still on and we will most likely plug it when we put 28 on.

Q Has Well No. 20 in Unit C of Section 9 received any response from the water injection program to date?

A Only to water. It has broken through to water. It was a gas well to begin with. It had no primary production history of much, if any.

Q No. 20?

A No. 20, yes, sir.

Q Did No. 28 have any primary production history?



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6641

A Yes, sir, 28 produced 2,273 barrels primary.

Q Has 28 received any response as yet to the water injection in Well No. 29?

A No, sir, it has not.

Q When was Well No. 19 put on injection?

A Well No. 19 was put on injection in June of '61, approximately.

Q Have wells 27 or 18 received any response from it?

A Well No. 18 has not received any and neither has 27.

Q When was Well No. 10 put on injection, Mr. McGraw?

A Soon after 19. We only have approximately 50,000 barrels of water in 19, 10 and Well No. 2 on down in the corner. Those wells are extremely tight. They take water very slowly compared to the rest of the field.

Q Do you anticipate that 26 and 17 will be more or less of the same nature?

A No, sir, we feel that they'll be better wells. They were better primary wells, they're in a little better portion of the field as far as the reservoir is concerned.

Q Does the line agreement that you have with Phillips in operating their unit to the West stipulate the amount of water that's going to be injected into the wells?

A It stipulates that we will balance it. In other words,



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FARMINGTON, N. H.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6671

if they're able to get in 400 barrels a day, then we will try to inject that amount. If they are not able to inject that amount, then we won't. In other words, it will be balanced across the line.

Q You expect that Phillips will have their wells on injection within a week?

A Possibly longer on their wells offsetting us. They're putting them on as fast as they can, it might be a little longer before they get out to that area, but they will go on just as soon as they can.

Q When do you expect to convert these three wells that is the subject of this hearing?

A We expect to convert them just as soon as Phillips converts their well.

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

MR. NUTTER: Mr. Irby.

BY MR. IRBY:

Q I don't believe there's anything in the record concerning the casing program on this well or the matter of injection. Would you like me to ask questions?

MR. KELLAHIN: The casing program was attached as an exhibit to the application. We will be happy to have you ask any



questions that you wish.

A Yes, it was attached.

MR. IRBY: Do you have a copy of that with you that I could look at?

MR. DURETTE: Here's the one from the file.

MR. NUTTER: That is the casing program for all three wells?

A Yes, sir. It's a general form that we use for this field. It varies a little bit, some wells have four and a half casing, one of these wells has four and a half casing set through the pay and perforated, the other two are open hole completions with five and a half casing set above the pay and cemented with 100 sacks of regular Neet cement. We intend to inject through cement-lined tubing with packer set approximately 200 feet below the calculated cement top. This will be a tension-type packer.

MR. NUTTER: All three wells will have injection down tubing under a packer?

A That's right.

MR. IRBY: That's all I need, thank you.

MR. NUTTER: Did you have any questions, Mr. Irby?

MR. IRBY: No, nothing further.

MR. NUTTER: If there's no further questions of Mr.

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McGraw, he may be excused.

(Witness excused.)

MR. NUTTER: Mr. Kellahin, do you have anything further in this case?

MR. KELLAHIN: That's all.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2781? We'll take the case under advisement and call Case 2782.

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 18th day of April, 1963.

Ada Dearnley
Notary Public-Court Reporter

My commission expires:
June 19, 1963.

I do hereby certify that the foregoing is a complete and correct transcript of the proceedings in the case of *2781* held by me on *4/10*, 19*63*.

James, Examiner
New Mexico Oil Conservation Commission

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