case 3089: Application of PHILLIPS for a waterflood project, Lea County, New Mexico

FSE 80.

APPlication, Transcripts, SMAIL Exh. bits ETC.

Memo

From

D. S. NUTTER

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Memo

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R. L. STAMETS Technical Support Chief

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Oil Conservation Commission - Santa Fe, New Mexico



STATE OF NEW MEXICO

STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER

July 22, 1964

Address correspondence to:
STATE CAPITOL
SANTA FE, N. M.

Mr. A. L. Porter, Jr. Secretary-Director Oil Conservation Commission Santa Fe, N. M.

Dear Mr. Porter:

Reference is made to the application of Phillips Petroleum Corporation which seeks approval of the Ranger Lake Unit Agreement and water flood project submitted on June 19, 1964, which involves the following wells:

Ranger State No. 11 - Unit F, 26-12 S-34 E
Ranger State No. 4 - Unit F, 23-12 S-34 E
Ranger State No. 2 - Unit D, 25-12 S-34 E
State I, No. 1 - Unit P, 14-12 S-34 E
Humbler State No. 2 - Unit J, 27-12 S-34 E
State "AZ" No. 3 - Unit J, 34-12 S-34 E
State "WRA" No. 1 - Unit D, 35-12 S-34 E
State "K" No. 1 - Unit A, 27-12 S-34 E
State "24" No. 2 - Unit M, 24-12 S-34 E

The diagrammatic sketches of the wells which were submitted with the application do not show any packers. In fact, they show the wells as now constructed and equipped. It is my understanding from Phillips' attorney, Jason W. Kellahin, and their representative, Mr. McConnell, that only one string of tubing will be used in each well and that packers sealing the annulus between the tubing and casing will be installed at a point well below the top of the cement surrounding the 5½ inch casing. If the construction and equipment of the wells is in accordance with this understanding, it appears that no threat of contamination to the waters which exist in the area will occur. Therefore, this office offers no objection

to the granting of this application, provided construction and equipment of the wells is carried out as set forth above.

Yours truly,

S. E. Reynolds _ State Engineer

Chief

Water Rights Division

FEI/ma

cc-Mr. J. W. Kellahin

Mr. McConnell

Mr. F. H. Hennighausen

while set packer parker force above my Three force by Jahren Jahren Jahren Dach Well Ogalada Vsacu viel in j 12000 BPD 8-5/8" casing at 1999' Cast. Vol. 1000 axa TOC: Circ Thrun the quistly start in all quistly BEFORE EXAMILER NU CH CONSERVATION COM helia EXHIAT 160. 308 2-3/8" tabing at 102501 Perforations: 10274-102841 10300-103261 10340-103521 5-1/2" casing at 10359' Oat. Vol. 4000 exe PBTD 10357

Ranger Lake Penn. Pield

Phillips Petroleum Company

Texas Pacific Oil Company

Texas Pacific Oil Company

Texas Pacific Oil Company

New Rexistant Research

Lea County, New Mexico

13-3/8" casing at 3561 Out. Vol. 375 exa TOC: Circ.

8-5/84 casing at 42221 Cut. Vol. 3300 axa TOC: Circ.

Parallel tubing strings: 2-3/8" and 1.315" at 102321

Perforations: 10240-10286' 10304-10318' 10328-10350'

PBTD 103551

5-1/2" casing at 10365'
Out. Vol. 2050 sks TOC: 2810'

Ranger Lake Penn. Field

Phillips Petrolaus Gempany & Texas Pacific Oil Company Ranger State No. 4 - Unit F, 23-175-31.8 Lea County, New Maxico

ions:

13-3/8" casing at 356'
Oct. Vol. 375 exs TOC: Circ.

8-5/8" casing at 4226'
Out. Vol. 2350 exe. TOC: Circ.

Parallel tubing strings: 2-3/8" and 1.315" at 10234'

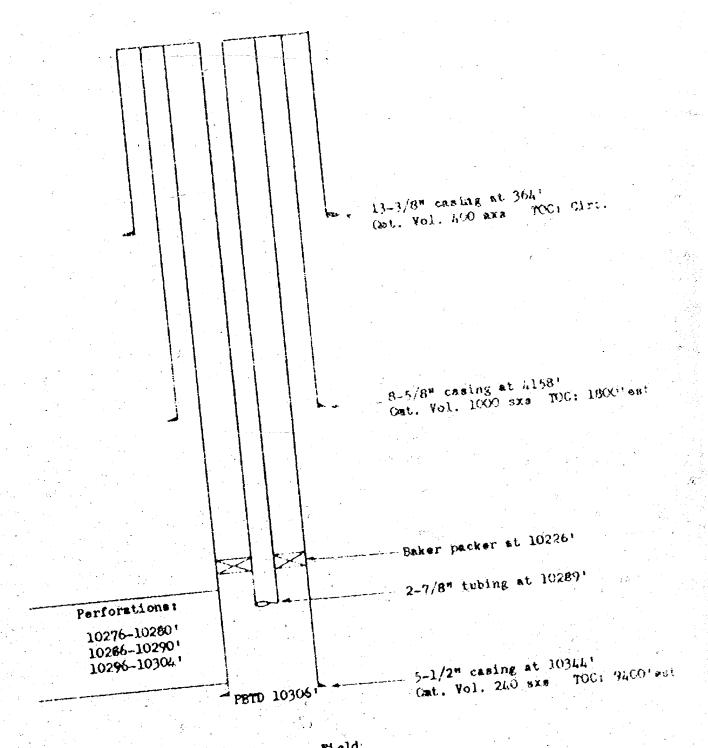
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Cat. Vol. 2500 exs TOC: 2750'

Perforations: 10282-10303' 10310-10336'

PETD 103481

Ranger Lake Penn. Field

Phillips Petroleum Company & Texas Pacific Oil Company Ranger-State No. 2 - Unit_D, 25-125-348
Lan County, New Mexico



Ranger Lake Penn. Field

Joseph I. O'Neil

State *I* No. 1 - Unit P, 14-12S-34E

Lea County, New Hexico

13-7,6% exercy at 37%.
Ont. vol. 375 sxs 70%: Circ.

8_5/8" casing at 4250; Cmt. vol. 1606 sas. TOO: 682!

2-3/8" tubing at 10,250"

PBTD 10310

5-1/2" casing at 10385" Cat. vol. 310 exe TOO 93951

Hanger lake Penn. Field J. C. Barnes Oil Co. Humble State No. 2 - Hhit J, 27-128 34K Lea County, New Mexico

Perforations: 10259-10265'

10277-10281 10283-10291' 10298-103091

- 13-3/8" casing at 405'
Cat. vol. 350 exa TOO: Circ.

8-5/8" caring at 1.270" Cmt. vol. 300 sxe TOC: 32751

2-7 8" tubing at 7341'

Perforations: 10280-10307' 10334-10346'

PETO 10372

5-1/2" casing at 1044.0! Ont. vol. 300 see TOC: 8575!

Ranger Lake Penn, Field

Pan American Petroleum Corp.

State MAZM No. 3 - Unit J. 34-128-34E
Les County, New Mexico

Cat. 701. 37) axa TEXT Circles 8:5/84 eserog at 12041 Cat. vol. 1500 ave 700 17721 Baker Model "D" backer at 10,2001 -2-3/8#/2-7/8# tubing at 10,20) Perforations 10237-10254 10281-10305 5-1/2" Hiner from 60991 to 10348'
Cmt. vol. 600 exe PBTD 10340

Ranger lake Ponn. Field Amerada Petroleum Corp.

State "WRA" No. 1 .. Unit D, 35-12S-34E
Lea County, New Mexico

13-3,8" casing at 361. Ont. Vol. 300 axe 700: Circ Brigh Carles 8, 1333, 2001 1581, Guiberson packet at 10203' Combination 2-3 Re: 2-7/3" turing string at 10211' Perforations: 10226-10229' 10245-10251' 10258-10269' 10272-10277' 10301-10305' 10326-10323' PATO 10342' Cut. vol. 600 8xx 10045'

Ranger Lake Penn. Field Tidesater Oll Company
State *K* No.) - Unit A, 27-125-34E
State *K* No.) - Whit A , 27-125-34E
Les County, New Mexico

Cat. Vol. 350 axa TOC: Circ. 8-5/8" casing at 4240' Out. Vol. 1600 sxs 700; Circ. Perforations 10310-103201 - 2-3/8" tubing at 10,335! -5-1/2" casing at 103751 Cat. Vol. 350 axs TOC: 90001 sat. PETU 10340'

Ranger Lake Penn. Field State M24 No. 2 - Unit M, 24-128-341 Lea County, New Mexico

JASON W. KELLAHIN ROBERT E. FOX KELLAHIN AND FOX
ATTORNEYS AT LAW

54% EAST SAN FRANCISCO STREET
POST OFFICE BOX ## 1769

SANTA FE, NEW MEXICO

MAIN OFFICE 660 5 983-9396 982-2991

1964 JUN 23 AH 7:38

June 22, 1964

Case 3089

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

Re: Phillips Petroleum
Company Ranger Lake
Unit Agreement and
Water Flood Project,
Lea County, New Mexico.

Gentlemen:

Enclosed are copies of exhibits showing the casing and cementing program on the proposed injection wells in connection with the above application.

Logs of these wells have not yet been received but will be forwarded to the Commission immediately upon receipt.

very truly yours,

Jaso W. Kellohi

JASON W. KELLAHIN

jwk:mas enclosures

DOCKET MAILED

Date 1/8/69

KELLAHIN AND FOX ATTORNEYS AT LAW

54% EAST SAN FRANCISCO STREET
POST OFFICE BOX 1713 1.769
SANTA FE. NEW MEXICO

MAIN OFFICE OCC

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June 22, 1964

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Cas 3089

Mr. Frank Irby State Engineer's Office State Capitol Santa Pe, New Mexico

> Re: Phillips Petroleum Company Ranger Lake Unit Agreement and Water Flood Project, Lea County, New Mexico.

Dear Mr. Irby:

Enclosed are copies of exhibits showing the casing and cementing program on the proposed injection wells in connection with the above application.

The application of Phillips Petroleum Company will be set for hearing before the Oil Conservation Commission's examiner on July 22. If there is anything further you need prior to that time, would you please let me know?

Very truly yours,

JASON W. KELLAHIN

jwk:mas enclosures cu: Oil Conservation Commission



ROBERT E. FOX

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico July 22, 1964

EXAMINER HEARING

IN THE MATTER OF:

Application of Phillips Petroleum Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Ranger Lake cause, seeks approval of the Ranger Lake Unit Area comprising 2,680 acres, more or less, of State land in Township 12 or less, of State land in Township 12 South, Range 34 East, Lea County, New Mexico.

Application of Phillips Petroleum Company for a waterflood project, Lea County, New Mexico.

Case No. 3088

Case No. 3089

BEFORE: DANIEL S. NUTTER, Examiner.

TRANSCRIPT OF HEARING

DEARNLEY-MEIER REPORTING SERVICE, Inc.

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ME 325-1182

MR. NUTTER: We will call Case 3088.

MR. DURRETT: Application of Phillips Petroleum Company for a unit agreement, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa Fe, representing the Applicant. We have one witness we would like to have sworn.

(Witness sworn.)

M. H. McCONNELL

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Would you state your name, please?
 - A M. H. McConnell.
 - Q By whom are you employed and in what position?
 - A Phillips Petroleum Company as a petroleum engineer.
- Q Mr. McConnell, have you ever testified before the Oil Conservation Commission of New Mexico and made your qualifications a matter of record?
 - A Yes, I have.

able?

MR. KELLAHIN: Are the witness's qualifications accept-

and arrendered are all and are

MR. NUTTER: Yes, sir.



PHONE 243 6691

Mr. McConnell, are you familiar with the application of Phillips Petroleum Company in Case 3088?

Yes, sir.

MR. KELLAHIN: At this time I would like to move the Commission that this case be consolidated with Case 3089 in view of the fact one is a unit agreement and the other covers a waterflood project for the same unit.

MR. NUTTER: We will now call Case 3089.

MR. DURRETT: Application of Phillips Petroleum Company for a waterflood project, Lea County, New Mexico.

MR. NUTTER: Is there objection to the consolidation of Cases 3088 and 3089 for purposes of hearing? The cases will be consolidated.

(By Mr. Kellahin) Are you familiar with the application of Phillips in Case 3089?

Yes, I am. A

Would you state briefly to the Commission Examiner what is proposed by Phillips Petroleum Company in these two cases?

We propose to unitize the reservoir that produces in this area, the Ranger Lake-Penn formation, and we propose to initiate a water injection program to waterflood this reservoir and increase the recovery.

Do you have a plat showing the area involved in this Q



application?

Yes, sir.

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

MR. NUTTER: Mr. McConnell, what office do you work out of?

I work out of the Phillips office in Odessa. A

(By Mr. Kellahin) Now, referring to what has been Q marked as Exhibit No. 1, Mr. McConnell, would you identify that exhibit and state what is shown on it?

This exhibit shows lease ownership in the area surrounding the proposed Ranger Lake Unit. It shows colored in in yellow the proposed unit area, which is the entire producing reservoir, and it shows all producing wells and those wells with the large circle around them as the proposed water injection wells.

In connection with the application, a copy of the unit Q agreement and unit operating agreement was filed with the Oil Conservation Commission, was it not?

Yes, sir.

Making reference to that exhibit attached to the application and in particular to the unit area as shown by Exhibit A, has all of the area been committed to the unit?

As of now it has not all been committed to the unit



- What areas have not been committed as to the working Q interest we're referring to?
- Tract 3 has not been committed, which is in Section 22. Tract 4 has not been committed in Section 24, and Tract 7 in Section 34 has not been committed.
- Has the remainder of the tracts as shown on Exhibit A been committed to the unit?
 - Yes, sir.
- And all of the working interest owners have agreed to unitization?
 - Yes, sir.
- And have they agreed to the waterflood project as proposed?
 - Yes, they have. A
- What is the status as to the revalty interest involved Q in this unit?
 - The royalty is all owned by the State of New Mexico.
- Has the form of unit been submitted to the office of A the State Land Commissioner?
 - Yes, it has.
- Has approval been given by the State Land Commissioner as to the form and content of the unit agreement?



- A Yes, sir, approval has been given in letter form.
- Q What is the situation as to any overriding royalties?
- A All overriding royalties have been committed to the unit agreement.
 - Q Are all of the lands involved in this unit state lands?
 - A Yes, sir.
 - Q And there are no federal or fee lands involved?
 - A That's correct.
- Q Does the unit agreement substantially give control of the area for secondary recovery purposes?
 - A Yes, sir, it does.
- Q In connection with the secondary recovery program, did you file with the application an exhibit showing the present status of the wells which will be utilized for injection wells?
 - A We did.
- Q Are those wells as presently shown, will they be utilized in that fashion for water injection purposes?
- A Well, these diagrams show the present status of the wells as they are shown in the Commission office in Hobbs. The only deviation from this is that we will install a packer in each well and inject through tubing under a packer in all cases.

MR. KELLAHIN: Off the record.

(Whereupon, a discussion was held off the record.)



(Whereupon, Applicant's Exhibit No. 2, pages 1 through 9, were marked for identification.)

- Q Referring to what has been marked as Exhibit 2, pages 1 through 9, are those the schematic diagrams of the present status of the wells you just mentioned?
 - A Of our proposed injection wells.
- Q What do you propose to do to these wells for injection purposes?
- A We will set a permanent packer immediately above the injection formation which is now the production formation, and set a string of tubing in the packer so that in all cases injection will be through a string of tubing and under a packer.
- Q Now, the exhibit reflects that there are two strings of tubing in some of the wells on which a Kobe pump is apparently used. Only one string of tubing will be used in those wells?
- A That's right, this parallel string of tubing will be pulled out and only the large string will be run back in and set in the packer.
- Q Was this manner of completion discussed by you with the State Engineer?
 - A Yes, it was.
- Q Did the State Engineer's Office, through Mr. Irby, agree to this proposed manner of completion?



- A Yes, sir.
- Q They furnished a letter to the Commission to that effect?
- A Yes.
- Q What will be the source of water to be used for injection?
 - A It will be an Ogallala formation.
 - Q Are you buying the water?
 - A No, we develop our own supply within the unit area.
- Q You have permits from the State Engineer and have already developed the water supply?
 - A That is correct.
 - Q What volumes will be injected in the unit?
 - A We anticipate injecting 12,000 barrels per day.
 - Q Through the nine wells?
 - A Through the nine wells.
- Q Will the injection start immediately on all of the wells, is that your plan?
 - A That's the plan.
 - Q Is this area at a substantial stage of completion?
 - A Yes, it's essentially depleted now.
 - Q Would you say it is at the stripper stage?
 - A Yes, sir, it is at the stripper stage.
 - Q Is there any primary recovery left in the field at the



present time?

- A Only an insignificant amount.
- Q Do you have logs of each of the injection wells?
- A I believe we have them right here.

MR. NUTTER: We have the logs, I presume they are the same logs.

A Same logs.

MR. NUTTER: The file is pretty thick, I think we can probably get along without those.

Q (By Mr. Kellahin) Logs on all the wells have been supplied to the Commission, have they not?

A Yes, sir.

MR. KELLAHIN: At this time I would like to offer in evidence Exhibits 1 and 2.

MR. NUTTER: Were you planning to offer the brochure as an exhibit?

MR. KELLAHIN: If the Commission desires.

MR. NUTTER: I would like to have this as an exhibit.

(Whereupon, Applicant's Exhibit No. 3 was marked for identification.)

Q Directing your attention to what has been marked as Exhibit No. 3 in Case 3088, is that the form of unit agreement proposed in this application?



Q Is that unit agreement substantially the same form that has been approved in previous cases by this Commission?

A Yes, it's the same form essentially.

MR. KELLAHIN: At this time I would like to offer in evidence Exhibits 1, 2 and 3.

MR. NUTTER: Applicant's Exhibits 1 through 3 will be admitted in evidence.

(Whereupon, Applicant's Exhibits 1, 2 and 3 were offered and admitted in evidence.)

MR. KELLAHIN: That's all I have on direct examination, Mr. Nutter.

MR. NUTTER: Are there any questions of Mr. McConnell?

CROSS EXAMINATION

BY MR. NUTTER:

- Q I believe you stated that Tracts 3, 4 and 7 had not been committed?
 - A That's right.
- Q Tract No. 4 has one of the proposed injection wells on it. Is this going to be converted to injection and operated independently, or are you anticipating that the well will come into the unit?
 - A We expect that the well will come in, but it's not



committed as of today. If it is not committed by the time we commence injection, it just won't be one of the injection wells.

- Q So we'll have eight wells rather than the nine?
- A That's correct.
- Q What's the status of the deal between American Trading and Texaco as far as the units are concerned?

A Well, American Trading has not elected as of the present time to ratify the unit agreement simply because that's almost a dry hole and they weren't going to have much ownership. They may sell it to the unit rather than ratify or it may be plugged. It has very little value anyway, because it's total cumulative production has only been about 1900 barrels. It was just included because we included the entire reservoir in the proposed unit.

- Q How about Texaco's CS lease?
- A Texaco has a half interest in that and has not ratified. Sunray DX, who has the other interest, has ratified. Whether Texaco is going to ratify, I don't dnow.
 - No injection well down there on that lease?
 - A That's right.
- Q What's the total cumulative production from this field, Mr. McConnell?
 - A As of the first of this year it was 3,099,000 barrels.
 - Q That's through December of '63?



Q Have you made any estimates as to what you'll recover as a result of the secondary effort?

A Yes, we estimate 3,210,000 barrels. This is the same as the utlimate primary estimate.

Q What is the participation formula under the unit agreement?

A It's a two-phase formula. I believe Phase 1 is half the remaining primary --

Q This is it on pages 7 and 8, I presume, of the brochure?

A That's right. The primary phase is fifty percent six months' production for the first half of 1962 and fifty percent remaining primary production subsequent to June the 30th, 1962.

Now, if you look on the agreement there is a typographical error there. It shows '63, that should be '62.

Q That's on page 8?

A On page 8.

Q And you do have tentative approval from the Commissioner of Public Lands of the unit agreement?

A Yes, sir.

Q Mr. McConnell, will this tubing that will be installed in these wells be plastic coated?

A Either plastic coated or cement coated.



MR. NUTTER: Any other questions of Mr. McConnell? He may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further, Mr. Kellahin?

MR. KELLAHIN: That's all I have, Mr. Nutter.

MR. NUTTER: Does anyone have anything they wish to offer in Cases 3088 or 3089?

MR. DURRETT: I would like to state for the record that we have received a letter from Mr. Frank Irby, the State Engineer's Office, that was referred to in the testimony.

MR. NUTTER: If there's nothing further in Cases 3088 and 3089 we'll take these cases under advisement.

· Secretaria



STATE OF NEW MEXICO)

COUNTY OF BERNALILLO ;

I, ADA DEARNLEY, Notary Public 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.

Witness my Hand and Seal this 3rd day of August, 1964.

Oda Dearnley
NOTARY FUBLIC

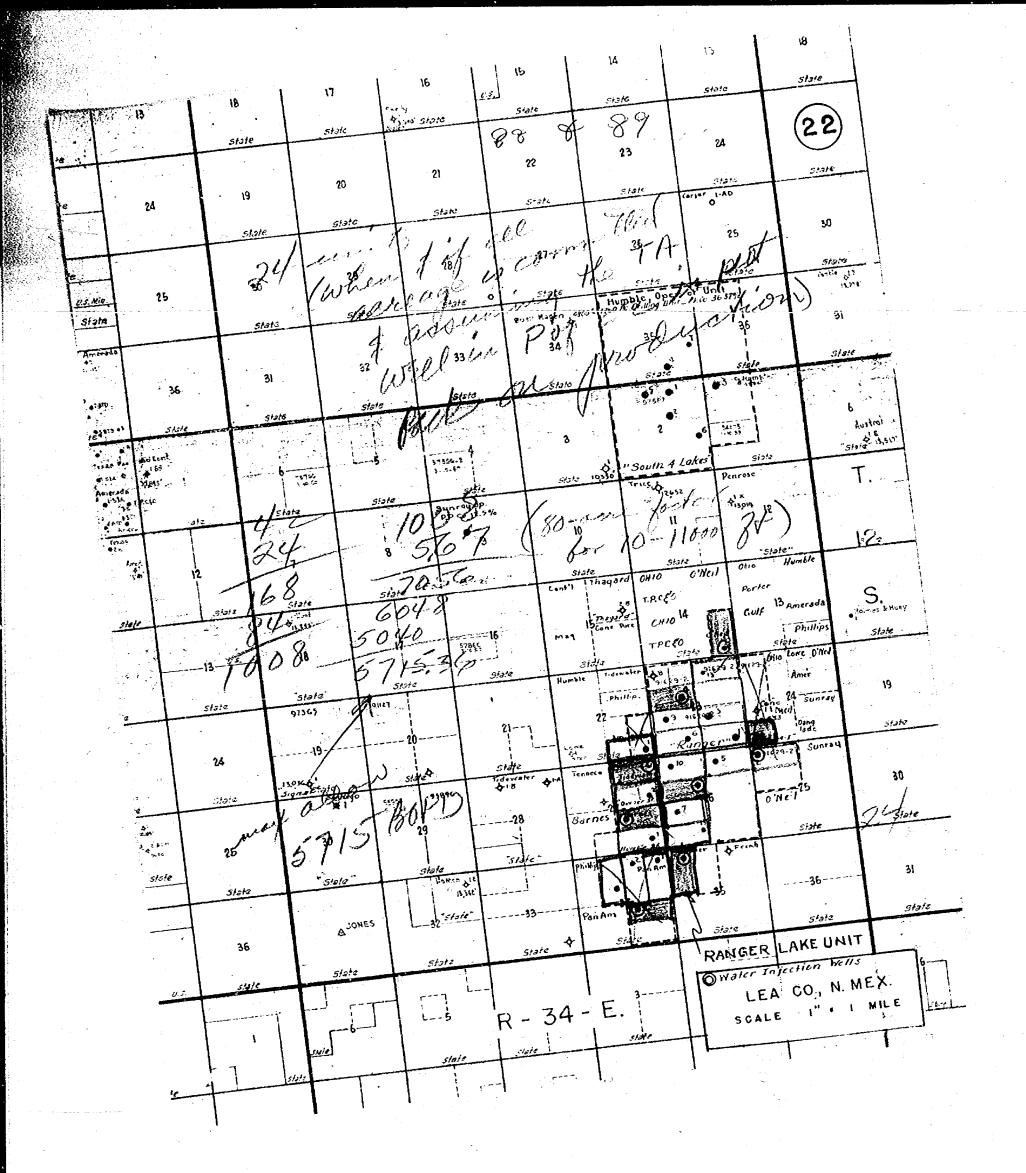
My Commission Expires: June 19, 1967.

I do hereby certify that the foregoing is a complete with the foregoing in the first of the firs

New Mexico Oil Conservation Commission



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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

August 4, 1964

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

Dear Mr. Kellahin:

Enclosed herewith is Commission Order No. R-2754, entered in Case No. 3089, approving the Phillips Petroleum Company Ranger Lake Waterflood Project.

Injection shall be through the authorized wells which are to be equipped with tubing and packers, said packers to be set to a depth of at least 10,000 feet.

As to allowable, our calculations indicate that when all of the authorised injection wells have been placed on active injection, and assuming that all of the wells in the unit area are committed and participating, and assuming further that the well in the SE/4 SE/4 of Section 22 is restored to production, that the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 5,715 barrels per day.

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

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

Mr. Jason Kellahin

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

ALPOSM/ir

661 Oil Conservation Commission Hobbs, New Mexico

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

DEFORE THE OIL CONSERVATION COUNTESION OF THE STATE OF NEW MEXICO

IR THE NATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF HEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASS No. 3099 Order No. R-2754

Application of Phillips Petroleum Company for a Waterplood Project, Lea County, New Mexico.

ORDER OF THE COUNTESTON

BY THE COMMISSION.

This cause came on for hearing at 9 o'clock a.m. on July 22, 1964, at Santa Pe, Now Mexico, before Examiner Daniel S. Butter.

Wow, on this 3rd day of August, 1964, 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, Phillips Petroleum Company, seeks permission to institute a waterflood project in the Manger Lake-Pennsylvanian Pool in the Manger Lake Unit Area by the injection of water into the Pennsylvanian formation through nine injection wells in Sections 14, 23, 24, 25, 26, 27, 34, and 35, Younship 12 South, Range 34 East, NMPH, Lea 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. 1689 Order No. R-2754

(3) 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 CAUERUD!

(1) That the applicant, Philips Petroleum Company, is hereby authorized to institute a waterflood project in the Ranger Lake-Pennsylvanian Pool in the Ranger Lake Unit Area by the injection of water into the Fennsylvanian formation through the followingdescribed wells in Township 12 South, Range 34 East, RMPM, Lea County, New Mexico:

State I No. 1 - Unit P, Section 14
Ranger State No. 2 - Unit M, Section 24
Ranger State No. 2 - Unit D, Section 25
Ranger State No. 11 - Unit P, Section 26
State "X" No. 1 - Unit A, Section 27
Humbler State No. 2 - Unit J, Section 27
State "AR" No. 3 - Unit J, Section 34
State "WRA" No. 1 - Unit D, Section 34

- (2) That the subject vaterflood project 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 authorised shall be submitted to the Commission in accordance with Rules 704 and 1119 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.

FORE at Santa Fe, New Mexico, on the dny and year hereinubove designated.

> STATE OF BEW MERICO CIL CONSBRVATION COMMISSION

JACK M. CAMPBELL, Chairman

S. S. WALKER, Mumber

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

esr/

GOVERNOR EDWIN L. MECHEM CHAIRMAN

State of New Mexico Oil Conservation Commission

LAND COMMISSIONER E, S. JOHNNY WALKER MEMBER



P. O. BOX 2088 SANTA FE 87501 STATE GEOLOGIST

A. L. PORTER, JR.
SECRETARY - DIRECTOR

o Section 22

production,

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

Gentlemen:

No. 3089, approving the Phillips Petroleum Company Rauger Lake
Water Flood Project.

According to our calculations, 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 the unit

Please report any error in this calculated maximum allowable immediately, and are 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, paring, and 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 in the status of wells in the project farther 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.

Her Stly Stly

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 Frank Irby DRAFT

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: som att.

CASE No. 3089

Order No. R- 2754

APPLICATION OF PHILLIPS PETROLEUM COMPANY
FOR A WATERFLOOD PROJECT, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 22 , 1964, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter .

NOW, on this day of July, 1964, 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.
- seeks permission to institute a waterflood project in the Ranger

 in the Ranger Lake Unit Area
 Lake-Pennsylvanian Pool/by the injection of water into the

 Pennsylvanian formation through nine injection wells in

 14, 23, 24, 25, 26, 27,
 Sections 34 and 35, Township 12 Maxxii, Range South

 34

 West, NMPM, Lea County, New Mexico.
 East
- (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.

(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, | Phillips | s Petroleum Comp | any , |
|------------------|-----------------|---------------------|--|-----------------------|
| is hereby author | ized to institu | ite a water | flood project i | n the |
| Ranger Lake-Penr | nsylvanian Pcol | in the | Ranger Lake jection of wate | _ Unit Arear into the |
| Pennsylvanian | | - | following-descr | ibed wells |
| in Township | 12 | Markk, Ran South | ige34 | ₩ ₩ ₩₩, |
| NMPM, Lea | County, New Me | exico: | en e | |

Ranger State No. 11 - Unit F, 26-12 6-34 E Octo- 36

Ranger State No. 4 - Unit F, 23-12 8-34 E

Ranger State No. 2 - Unit D, 25-12 8-34 E

State LO No. 1 - Unit P, 14-12 8-34 E

Humbler State No. 2 - Unit J, 27-12 8-34 E

State "AZ" No. 3 - Unit J, 34-12 8-34 E

State "WRA" No. 1 - Unit D, 35-12 6-34 E

State "K" No. 1 - Unit A, 27-12 8-34 E

State "24" No. 2 - Unit M, 24-12 8-34 E

State "24" No. 2 - Unit M, 24-12 8-34 E

- (2) That the subject waterflood project 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 1119 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. CASE 3087: Application of William A. and Edward R. Hudson for an unorthodox location, Eddy County, New Mexico. Applicants, in the above-styled cause, seek authority to drill their Puckett "A" Well No. 26 at an unorthodox location 1295 feet from the North and West lines of Section 24, Township 17 South, Range 31 East, Eddy County, New Mexico. Said well would be projected to the Paddock formation at approximately 5400 feet.

Application of Phillips Petroleum Company for a unit agreement, Lea County, CASE 3088: New Mexico. Applicant, in the above-styled cause, seeks approval of the Ranger Lake Unit Area comprising 2,680 acres, more or less, of State land in Township 12 South, Range 34 East, Lea County, New Mexico.

> Application of Phillips Petroleum Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Ranger Lake-Pennsylvanian Pool in its Ranger Lake Unit Area by the injection of water into the Pennsylvanian formation through nine wells in Sections 14, 23, 24, 25, 26, 27, 34 and 35, Township 12 South, Range 34 East, Lea County, New Mexico.

Application of Tenneco Oil Company for salt water disposal, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Pictured Cliffs formation through its Callow Well No. 2 located in Unit B, Section 33, Township 29 North, Range 13 West, West Kutz-Pictured Cliffs Pool, San Juan County, New Mexico.

CASE 3091: Application of The British-American Oil Producing Company for a dual completion and pool commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its North Wilson Deep Unit Well No. 1, located in Unit O of Section 31, Township 20 South, Range 36 East, Lea County, New Mexico, to produce oil from the Upper Bone Spring formation and the Lower Bone Spring formation through parallel strings of tubing. Applicant further seeks authority to commingle the production from said pools after separately metering the Lower Bone Spring production.

> Application of The British-American Oil Producing Company for the creation of a new oil pool and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Upper Bone Spring production for its North Wilson Deep Unit Well No. 1, located in Unit O of Section 31, Township 20 South, Range 36 East, Lea County, New Mexico, which well is perforated from 7888 to 7901 feet. Applicant further seeks the promulgation of special rules for said pool, including a provision for 80-acre proration units.

CASE 3093: Application of The British-American Oil Producing Company for the creation of a new oil pool and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Lower Bone Spring production for its North Wilson Deep Unit Well No. 1, located in Unit O of Section 31, Township 20 South, Range 36 East, Lea County, New Mexico, which well is perforated from 10,094 to 10,122 feet. Applicant further seeks the promulgation of special rules for said pool, including a provision for 80-acre proration units.

CASE 3089:

CASE 3090:

CASE 3092:

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 22, 1964

9 . 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 3081: Application of Shell Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Langlie-Mattix Pool by the injection of water through four wells at unorthodox locations in Section 21, Township 24 South, Range 37 East, Lea County, New Mexico.
- CASE 3082: Application of Union Oil Company of California 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 through perforations from 11,246 feet to 11,285 feet in its State-Gross Well No. 2 located in Unit L of Section 11, Township 12 South, Range 32 East, East Caprock Field, Lea County, New Mexico.
- Application of General American Oil Company of Texas 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 through twelve wells located in Sections 27, 28, 33 and 34, Township 17 South, Range 30 East, Eddy County, New Mexico. Certain of the aforesaid injection wells would be drilled at unorthodox locations.
- CASE 3084: Application of Fair Oil Company for a buffer zone extension and pool redelineation, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an amendment of Order No. R-2033 to extend the waterflood buffer zone authorized by said order to include the SE/4 NE/4 of Section 36, Township 17 South, Range 29 East, Eddy County, New Mexico. Applicant further seeks the extension of the Loco Hills Pool to include said quarter-quarter section, and the associated deletion of said acreage from the Grayburg-Jackson Pool.
- CASE 3085: Application of Humble Oil & Refining Company for two non-standard oil proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of two non-standard 80-acre oil proration units in Section 7, Township 19 South, Range 35 East, Scharb Bone Springs Pool, Lea County, New Mexico. The first unit would comprise the NW/4 NE/4 and the NE/4 NW/4 of Section 7 and be dedicated to applicant's Alves Well No. 1 located in Unit B of said Section 7. The second unit would comprise the SW/4 NE/4 and the SE/4 NW/4 of Section 7 and be dedicated to applicant's Alves Well No. 2, which would be drilled in Unit G of said Section 7.
- CASE 3086: Application of Texaco Inc. for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Rhodes Yates Oil Pool by the injection of water into the Yates and Seven Rivers formations through two wells in Section 26, Township 26 South, Range 37 East, Lea County, New Mexico.

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BEFORE THE OIL CONSERVATION COMMISSION

OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF PHILLIPS PETROLEUM COMPANY FOR APPROVAL OF A WATER FLOOD PROJECT OF THE RANGER LAKE ZONE OF THE 21-27 PENNSYLVANIAN FORMATION UNDERLYING THE RANGER LAKE UNIT, LEA COUNTY, 3J-34 NEW MEXICO.

Case No. 308

10-35

1A-27

2M-24

APPLICATION

Comes now Phillips Petroleum Company, a Delaware corporation duly authorized to do business in the State of New Mexico, and applies to the Oil Conservation Commission of New Mexico for approval of a water flood project under the provisions of Rule 701 of the Commission's Rules and Regulations, for the formation known as the Ranger Lake Zone of the Pennsylvanian formation, underlying the applicant's Range Lake Unit, Lea County, New Mexico, and in support thereof would show:

1. The area to be affected by the project is more particularly described as follows:

Township 12S, Range 34E

Section 35:

Section 14: E/2 SE/4 Section 22: E/2 SE/4 Section 23: A11 W/2 NW/4 and W/2 SW/4 Section 24: Section 25: NW/4Section 26: All Section 27: E/2 and SE/4 SW/4E/2 and E/2 NW/4 Section 34:

NW/4

The zone to be subject to water flood in the event this application is approved is commonly known as the Ranger Lake Zone of the Pennsylvanian formation, further identified as the producing formation found in the Phillips Petroleum Company's Ranger Lake Unit No. 1 well, located in the SE/4 SE/4, Section 23, Township 12 South, Range 34 East, N.M.P.M., Lea County, New Mexico, between the depths of 6,080 and 6,230 feet below sea

- level. This zone has been substantially depleted on primary recovery and is approaching its economic limit unless secondary recovery is instituted as proposed by this application.
- 3. Attached hereto as Exhibit "A" and made a part hereof, is a plat showing the Range Lake Unit Area and offsetting acreage, with the ownership thereof insofar as known to applicant, and wells completed in the same zone, within a two-mile radius of the water flood project, together with the location of proposed injection wells within the project.
- 4. Logs of proposed injection wells and diagrammatic sketches of the proposed injection wells showing all casing strings, setting depths, cementing program, perforations and other pertinent data will furnished to the Commission and to the Office of the State Engineer prior to the hearing of this application.
- 5. It is proposed that a total of approximately 12,000 barrels of water per day will be injected into the Ranger Lake Zone underlying the unit. The source of the injection water will be the Ogallala Sand.
- 6. A copy of this application, with exhibits, is filed simultaneously with the Office of the State Engineer, as required by Rule 701 (b) of the Rules and Regulations of the Commission.

WHEREFORE, applicant Phillips Petroleum Company requests that this application be set for hearing before the Commission's examiner and that after notice and hearing as required by law the Commission enter its order approving the water flood project for the Ranger Lake Unit, as applied for.

PHILLIPS PETROLEUM COMPANY

By Jason W. Kellahin

Kellahin & Fox

P. O. Box 1769 Santa Fe, New Mexico

CARL W. JONES P. O. Box 791 Midland, Texas

J. V. PEACOCK P. O. Box 791 Midland, Texas

ATTORNEYS FOR APPLICANT

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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. 3089 Order No. R-2754

APPLICATION OF PHILLIPS PETROLEUM COMPANY FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 22, 1964, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this day of August, 1964, 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, Phillips Petroleum Company, seeks permission to institute a waterflood project in the Ranger Lake-Pennsylvanian Pool in the Ranger Lake Unit Area by the injection of water into the Pennsylvanian formation through nine injection wells in Sections 14, 23, 24, 25, 26, 27, 34, and 35, Township 12 South, Range 34 East, MMPM, Lea 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. 3089 Order No. R-2754

(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, Phillips Petroleum Company, is hereby authorized to institute a waterflood project in the Ranger Lake-Pennsylvanian Pool in the Ranger Lake Unit Area by the injection of water into the Pennsylvanian formation through the followingdescribed wells in Township 12 South, Range 34 East, NMPM, Lea County, New Mexico:

State I No. 1 - Unit P, Section 14
Ranger State No. 2 - Unit F, Section 23
State "24" No. 2 - Unit M, Section 24
Ranger State No. 1 - Unit F, Section 25
Ranger State No. 11 - Unit F, Section 26
State "X" No. 1 - Unit A, Section 27
Humbler State No. 2 - Unit J, Section 27
State "AZ" No. 3 - Unit J, Section 34
State "WRA" No. 1 - Unit D, Section 35

- (2) That the subject waterflood project 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 1119 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.

oth conservation commission

ACK M. CAMPBELL, Chairman

E S. WALKER Member

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