CASE 5538: PHILLIPS PETROLEUM COMPANY FOR A DUAL COMPLETION AND SALT WATER DISPOSAL, CHAVES COUNTY, NEW MEXICO

CASE NO.

5538

APPlication,
Transcripts,
Small Exhibits,

ETC.

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501 September 9, 1975

Re:

CASE NO.

Tom Kellahin ORDER NO. R-5090 Kellahin & Fox Attorneys at Law Post Office Box 1769 Applicant: Santa Fe, New Mexico Phillips Petroleum Company Dear Sir: Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case. Yours very truly JOE D. RAMEY Secretary-Director JDR/fd Copy of order also sent to: Hobbs OCC Artesia OCC Aztec OCC Other

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. 5538 Order No. R-5090

APPLICATION OF PHILLIPS PETROLEUM COMPANY FOR A DUAL COMPLETION AND SALT WATER DISPOSAL, CHAVES COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 13, 1975, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this gth day of September, 1975, 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 authority to complete its Luther-A Well No. 1, located in Unit N of Section 18, Township 8 South, Range 32 East, NMPM, Chaves County, New Mexico, as a dual completion to produce oil from the Lonesome-San Andres Pool from the perforated interval from 4,118 feet to 4,248 feet and to dispose of produced salt water in the Glorieta formation through the open-hole interval from 4,584 feet to 4,720 feet.
- (3) That the production of oil from the San Andres formation and the disposal of water into the Glorieta formation will be accomplished through parallel strings of 2 3/8-inch tubing, the injection string being plastic-lined, with separation of the zones by means of a packer at 4,520 feet.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will prevent waste and protect correlative rights.

-2-Case No. 5538 Order No. R-5090

IT IS THEREFORE ORDERED:

(1) That the applicant, Phillips Petroleum Company, is hereby authorized to complete its Luther-A Well No. 1, located in Unit N of Section 18, Township 8 South, Range 32 East, NMPM, Chaves County, New Mexico, as a dual completion to produce oil from the Lonesome-San Andres Pool from perforations from 4,118 feet to 4,248 feet, and to dispose of produced salt water into the Glorieta formation through parallel strings of tubing, injection to be accomplished through 2 3/8-inch plastic-lined tubing installed in a packer set at approximately 4,520 feet, with injection into the open-hole interval from approximately 4,584 feet to 4,720 feet.

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Lonesome-San Andres Pool.

- (2) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (3) That the operator shall immediately notify the supervisor of the Commission's Hobbs district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.
- (4) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-3-Case No. 5538 Order No. R-5090

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

SEAL

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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. 5538

APPLICATION OF PHILLIPS PETROLEUM COMPANY FOR A DUAL COMPLETION AND SALT WATER DISPOSAL, CHAVES COUNTY, NEW MEXICO. Order No. R- 5090

ORDER OF THE COMMISSION

BY THE COMMISSION.

This cause came on for hearing at 9 a.m. on August 13 at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this ______ day of ______ day of ______ 1975, 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-Case No. 5538 Order No. R- -28-inch tubing, the injection string being plastic-lined,

- That the production of oil from the San Andres

 (3) Applicant further seeks to dispose of produced water into
 formation and the disposal of water into the Glorieta
 the Glorieta formation in the open-hole interval from 1584 feet to
 formation will be accomplished through

 1720 feet the parallel strings of tubing, with separation of
 the zones by means of a packer of 4520 feet.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Phillips Petroleum Company, is hereby authorized to complete its Luther-A Well No. 1, located in Unit N of Section 18. Township 8 South, Range 32 East, NMPM, Chaves

County, New Mexico, as a dual completion

Trom perforations from 118 feet to 1248 feet, produce oil from the Lonesome-San Andres Pool and 10

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take pecker

/eakage tests upon completion and annually thereafter during the Annual Gas-oi/Ratio Test Period for the

(2) That the applicant is further authorised to utilize the above-described well to dispose of produced salt water into through parallel strings of tubing, the Glorieta formation, injection to be accomplished through —inch tubing installed in a packer set at approximately 4520 feet, with injection into the open-hole interval from approximately 4584 feet to 4720 feet, through parallel

strings of tubing.

-3-Case No. 5538 Order No. R-

that the casing tubing annulus shall be filled with an inert fluid and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the gasing, tubing, or packer.

- (3) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 700 psi.
- That the operator shall notify the supervisor of the Nebbs
 Artesia district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- That the operator shall immediately notify the supervisor of the Commission's Artesia district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.
- That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (7) 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.

NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

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b. Top and Bottom of	4118' - Top		4645° Top
Pay Section	4248' - Bottom		4584 Top of OH
(Perforations)			4720 PBTD Bott
e. Type of production (Oil or Gas d. Mothed of Production			Salt Water Disposa
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day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

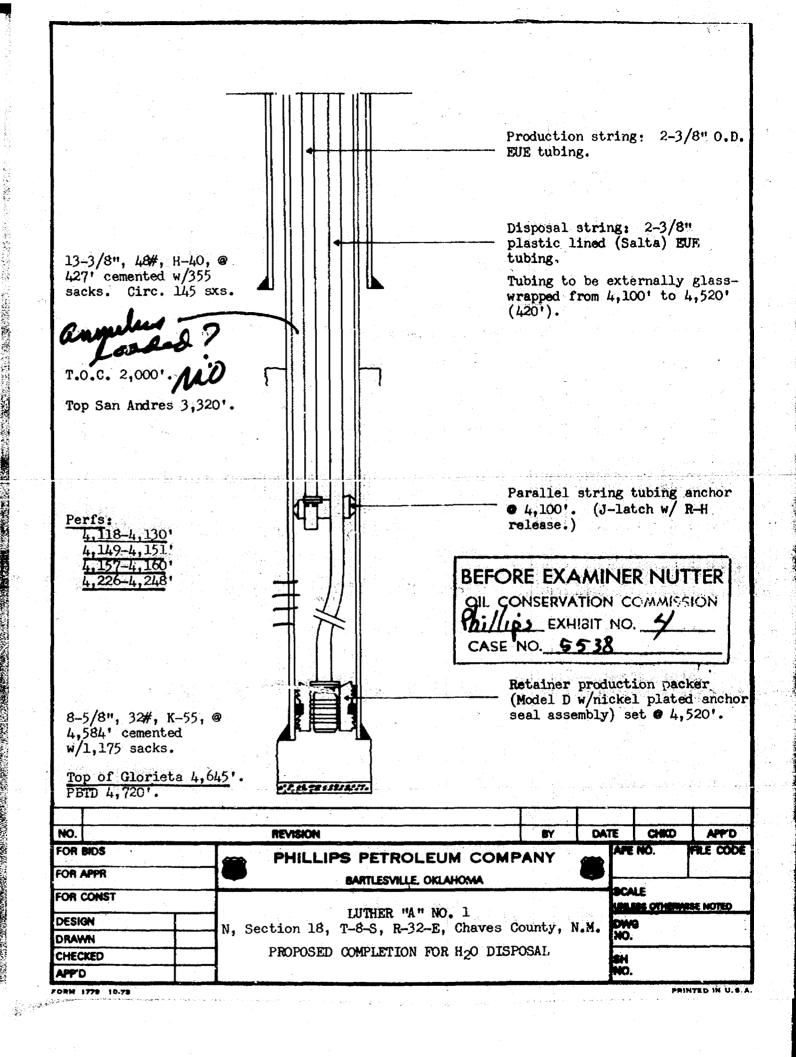
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard protation unit in One or of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR			ADDRES	15				
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	J. Mueller	Senior	Reservoir		·	<u>7–18</u>		
(Signature)			(Tit	14.7	Page Nation 1985 Table 1		(Date)	1000

NOTE: Should univers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this unplication, the Ser Hexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Sould For Office. I at the end of the 15-day uniting period no protest has been received by the Santa For office, the application will be processed. If a protest is received the application will be set for hearing, if the applicant so requests. SEC RULE 701.



HALLIBURTON DIVISION LABORATORY HALLIBURTON COMPANY

LOVINGTON, NEW MEXICO

1175-151

	LABORATORY	WATER A	NALYSIS	No. 175-15				
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This report is limited to the described sample tested. Any user of this report agrees that Holliburton shall not be liable for any loss or dumage, whether it be to act or omission, resulting from such report or its use.

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico August 13, 1975

EXAMINER HEARING

IN THE MATTER OF:

Application of Phillips Petroleum
CASE
Company for a dual completion and salt
water disposal, Chaves County, New Mexico

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil Thomas Derryberry, Esq.
Conservation Commission: Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

For the Applicant:

Thomas W. Kellahin, Esq.
KELLAHIN & FOX
Attorneys at Law
500 Don Gaspar
Santa Fe, New Mexico
and
Joe V. Peacock, Esq.
Attorney at Law
Odessa, Texas

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Phone (505) 982 9212

8.

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INDEX

GARY KRIEGER Direct Examination by Mr. Kellahin Cross Examination by Mr. Nutter

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Phyne (505) 987-9212

EXHIBIT INDEX

				Offered	Admitted
Exhibit Nu	mber One,	Map		9	9
Exhibit Nu	mber Two,	Application		.	
Exhibit Nu	mber Three	, Applicati	on	9	9
Exhibit Nu	mber Four	Sketch		9	9
Exhibit Nu	mber Five	Water Anal	ysis	9	9
Exhibit Nu	mber Six,	Log		9	9

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MR. NUTTER: We will call Case Number 5538.

MR. DERRYBERRY: Case 5538, application of Phillips
Petroleum Company for a dual completion and salt water
disposal. Chaves County, New Mexico.

(THEREUPON, the witness was duly aworn.)

MR. KELLAHIN: Tom Kellahin, Kellahin and Fox,
Santa Fe, New Mexico appearing on behalf of Phillips Petroleum
Company in association with Mr. Joe Peacock, an attorney
at law and a counsel for the Phillips Petroleum Company.

We have one witness who has already been sworn.

GARY KRIEGER

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Would you please state your name, by whom you are employed, and in what capacity?
- A. Gary Krieger, I'm employed by Phillips Petroleum Company as an Associate Reservoir Engineer.
 - Q. How do you spell your last name?
 - A K-r-i-e-g-e-r.
 - Q Have you previously testified before the Commission?
 - A. No.

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Q	Where	did you	obtain	your	degree	and	in	what	did
you obtain	n your	degree?							

- A. I have a Bachelor of Science in Petroleum Engineering from Colorado School of Mines.
 - Q. When did you obtain that degree?
 - A. In 1972.
 - Q. What other degrees do you hold?
- A. A Masters in Business Administration from the University of Denver in 1974.
- Q Since graduation where have you been employed and in what capacity?
- A. I have been employed by the Phillips Petroleum in Odessa for a year and a half now.
- Q Have you made a study of and are you familiar with the facts surrounding this particular application?
 - A Yes, sir.

MR. KELLAHIN: If the Examiner please, are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are.

- Q (Mr. Kellahin continuing.) Would you please refer to what has been marked as Applicant's Exhibit Number One, identify it and state what Phillips is seeking?
- A. Our first exhibit shows the area within a two-mile radius surrounding our Luther-A No. 1. We are requesting permission to dual complete and dispose of produced San Andres

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water in the Glorieta formation.

Luther-A No. 1 is located in Section 18, 8 South, 32 in Chaves County.

- What is the proration unit to be dedicated to the Q. well?
 - Forty acres. A.
 - Please refer to Exhibit Two and identify it? Q.
- The second exhibit is the application for multiple A. completion which was filed July 18th, '75. As previously stated we are producing oil from the San Andres formation and request permission to complete and inject salt water in the open hole from forty-rive eighty-four to forty-seven twenty by gravity flow.
- The formation for disposal is designated as Glorieta, is that right?
 - Yes, it is. The Glorieta at forty-six, forty-five.
 - Please refer to Exhibit Three and identify it.
- Our third Exhibit is the application to dispose of salt water by injection into the Glorieta formation. The bottom of the fresh water zone in this area is four hundred and twenty-five feet and we propose to inject a minimum of twenty-five barrels to a maximum of five hundred barrels per day.
 - Will this be under pressure or gravity?
 - Gravity.

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Q You are disposing of produced water only from the San Andres formation in this particular well, is that correct?

- A. This is correct.
- Q Have you been upon the surface location of this well?
 - A. Yes.
- Q Are there any fresh water sources or wells in the area?
- A. There is a rancher who has a well approximately a half-a-mile to the west of our Luther-B in Section 19.
- Q Would you locate for me on the exhibit the approximate location of that fresh water well by circling it?
 - A Yes, sir.
- Q It would be in the northeast of the northeast of Section 19, is that correct?
 - A. That's right.
- Q Okay. In your opinion will there be any risk of contamination to fresh water sources, including this farmer's well, from the disposal of salt water through the Glorieta formation in this well?
 - A. No, sir.
- Q. Please refer to what has been marked as Exhibit Number Four?
- A Our fourth exhibit is a diagrammatic sketch of the well showing its proposed dual completion. We are

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proposing to use a production string of two and three-eights inch EUE tubing, a disposal string of two and three-eighths inch plastic line, and we will produce the San Andres under a parallel string tubing anchor and we will inject below a retainer production packer at fortyfive twenty into the Glorieta. This is approximately sixty feet above the shoe.

- Q Will you fill the annular spaces above the parallel string of tubing anchor?
 - A. Yes, with water.
 - Q What kind of surface installation do you have?
- hundred barrel tanks.
 - Q How often will you monitor the well?
- A. We have a pumper who is supposed to make the trip every day each week, or at least every other day.
 - Q What type of surface gauges are on the surface?
- A We will have just a liquid level in the tanks to gauge the water production.
- Q What is the capacity of the tank battery at the surface?
 - A. Five hundred. Excuse me, the water or the oil?
 - Q The water.
- A The water will be approximately five hundred barrels.

Q Please refer to Exhibit Number Five and identify it?

A The fifth exhibit is a water analysis of the San Andres water in the Luther-A No. 1.

- Q In your opinion will the type of completion anticipated for this well be consistent with good engineering practices contingent upon the quality of water here?
 - A Yes, sir.
 - Q Please refer to Exhibit Number Six and identify it?
- A. Our sixth exhibit is the borehole compensated sonic log. The formation tops and well information has been marked on the two-inch scale.
 - Q Okay.

A This is Glorieta sand, the sample shown is a clear to frosted unconsolidated fine to medium grained rounded quartzitic sand and we tested this similar Glorieta sand in our Wilcox-A No. 1 which is located in Section 21, 5 South, 30 East and we have recovered two thousand, four hundred and seventy-five feet of drilling mud and formation water at an instantaneous shut down pressure of eighteen hundred and eighty pounds.

Pan American in their White Federal No. 1 in Section 13, 9, 30 South tested this Glorieta also and they recovered one hundred and twenty-seven barrels of water in ten hours.

Based on our water analysis of the Luther water, with a specific gravity of one point one, one, five or forty-eight one-hundredths psi per foot, we will have a hydrostatic head of twenty-two hundred pounds at the shoe which should overcome this anticipated pressure in the Glorieta.

- Q Is this well currently producing?
- A. Yes, it is.
- Q How are you currently disposing of the produced salt water?
 - A. We are trucking the water out of the location.
- were Exhibits One through Six either prepared by you directly or under your direction and supervision?
 - A. Yes, sir, they were.
- Q In your opinion will approval of this application be in the best interests of conservation, the prevention of waste and the protection of correlative rights?
 - A. Yes, they will.

MR. KELLAHIN: If the Examiner please, we move the introduction of Exhibits One through Six.

MR. NUTTER: Phillips' Exhibits One through Six will be admitted into evidence.

MR. KELLAHIN: That concludes our direct examination

CROSS EXAMINATION

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BY MR. NUTTER:

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Mr. Krieger, you mentioned that the water to be disposed of in this particular well would be produced by this particular well, yet I notice on Exhibit One that you apparently have a new location for drilling in the same section and maybe another one?

This is true. We have the 2-A and 3-A that are proposed locations as of right now. We have just recently completed Luther-B No. 1 just to the southwest of the A.

- Q. That is a completed well now?
- Yes, sir.
- In the San Andres?

Yes. We have swab tested this well at three barrels of oil per hour and nine barrels of water per hour and we are waiting for a pumping unit to continue testing this well.

Then what about the 2-A and 3-A on the Luther lease?

- They are just proposed locations right now.
- Well, eventually then this 1-A maybe handling water from additional wells besides the one?
 - Yes, sir. A.
- And I suppose that was the reason for stating that you anticipate injection volumes would range from twenty-five

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to five hundred barrels?

A. Correct.

Q Okay, now, on your Exhibit Five I'm having a little difficulty reading the figure here for chlorides. Could you tell me what that figure is?

- A Yes, sir, that is one hundred and three thousand.
- One hundred and three thousand parts per million.

 Now, you said that the annulus would be loaded with an inert fluid, how can you keep that inert fluid in there?

 Does this tubing anchor act as a packer?
- A No, I was mistaken this is just an anchor, it is not a packer.
 - Q So you won't be able to load the annulus?
 - A That's right.
 - But the tubing will be a plastic-lined tubing?
 - A Yes, sir.
- Q Now, this production packer with a nickel-plated anchor seal assembly, is that supposed to be a corrosion-proof type of packer?
 - A Yes, sir, I believe so.
- Q And the four hundred and twenty-seven feet of surface pipe here, does it penetrate and go through all of the fresh water sands that are in the area?
- A. Yes, sir, it is set two feet below what they anticipate the lowest fresh water sand is.

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•	Q.	How	deep	is	that	water	well	that	you	mentioned	in
Secti	on I	19?					i.	* *, *, *, *, *, *, *, *, *, *, *, *, *,			_

A. I cannot say right now, I don't know.

MR. NUTTER: Are there any further questions of this witness?

MR. KELLAHIN: No, sir.

MR. NUTTER: The witness maybe excused.

Do you have anything further, Mr. Kellahin?

MR. KELLAHIN: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 5538?

We will take the Case under advisement.

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Phone (505) 982-9212

State of New Mexico)
) ss.
County of Santa Fe)

I, SIDNEY F. MORRISH, a court reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

Sidney F. Morrish, Court Reporter

I do hereby certify that the foregoing is a complete record of the probeodings in the Examiner hearing of Case No. 3538 heard by me on 9/3, 1975

New Mexico Oil Conservation Commission

(Reopened & Readvertised)

(Reopened & Readvertised)

CASE 5152:

CASE 5262:

- CASE 5536: Application of Petroleum Development Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its McKay-West Federal Well No. 1 located in Unit F of Section 34, Township 18 South, Range 32 East, Lea County, New Mexico, to produce oil from the Bone Spring formation and gas from the Morrow formation through parallel strings of tubing.
- CASE 5537: Application of Cotton Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the E/2 of Section 10, Township 21 South, Range 25 East, adjacent to the Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico, to be dedicated to a well to be drilled at an orthodox location in Unit I of said Section 10. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of the applicant as the operator of the well and a charge for the risk involved in drilling said well.
- CASE 5538: Application of Phillips Petroleum Company for a dual completion and salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Luther-A Well No. 1, located in Unit N of Section 18, Township 8 South, Range 32 East, to produce oil from the Lonesome-San Andres Pool and to dispose of produced water into the Glorieta formation in the open-hole interval from 4584 feet to 4720 feet through parallel strings of tubing.
 - In the matter of Case No. 5152 being reopened pursuant to the provisions of Order No. R-4713, as amended by Order No. R-4713-A, which order established a special depth bracket allowable for the Media-Entrada Oil Pool, Sandoval County, New Mexico. All interested parties may appear and show cause why said special depth bracket allowable should remain in effect.

cause why said pool should not be developed on 40-acre spacing.

In the matter of Case No. 5262 being reopened pursuant to the provisions of Order No. R-4822-A, which order promulgated special pool rules for the Southwest Media-Entrada Oil Pool, Sandoval County, New Mexico, including a provision for 160-acre provation units. All interested parties may appear and show

AMICO MORON COMA

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

Attention: Joe D. Ramey

Exxon has no objection to Phillips request to dually complete and dispose of saltwater into their Luther - A No. 1 Well located in Unit N, Section 18, T-8-5, R-32-E as proposed in their letter of July 17, 1975.

BY Boulen

DATE ___8-5-75

al R

HNR/ss

cc: Phillips Petroleum Company, Odessa Texas

PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79761 PHILLIPS BUILDING

NATURAL RESOURCES GROUP

July 17, 1975

M COMM.

Santa Fe-Luther-A No. 1 Application to Dually Complete And for Salt Water Disposal V Unit N, 18, 8-S, 32-E, Chaves County

File: W4-Ta-54-75

New Mexico Oil Conservation Commission (3) P. O. Box 2088 Santa Fe. New Mexico 87501

Attention: Mr. Joe D. Ramey. Secretary-Director

Gentlemen:

We respectfully request administrative approval of exceptions to Rule 112-A-II for a conventional dual completion and to Rule 701-C for salt water disposal into a nonproductive reservoir, as they apply to our Luther-A, Well No. 1 - located in Unit N, 660 feet from the south line and 1980 feet from the west line of Section 18, T-8-S, R-32-E, Chaves County. This well currently produces from the San Andres reservoir of the Lonesome San Andres Pool.

The Luther-A No. 1 was drilled to a total depth of 10,620 feet, and plugged back to 4535 feet for its present completion. We propose to clean out the well bore to approximately 4950 feet, spot cement plug, and dually complete in a conventional mammer for SWD in the non-productive Glorieta open hole interval of 4584 feet to 4720 feet with the San Andres oil zone between 4118 and 4248 feet. These zones will be separated by a production type packer, and will be operated/produced through separate tubing strings. Forms C-107, C-108, lease and offset plat, diagrammatic completion sketch, and electric logs are attached in support of this request and further detail the proposed completion and operation. A similar oil/salt water disposal dual completion has previously been approved by the Commission in Order No. R-3949, dated April 22, 1970, which covered Phillips' operation of the Marley-A No. 1 = Unit P, Section 3, T-11-S, R-31-E, Chaves County.

By copy hereof and the appropriate forms, offset and surface owners are notified of these applications and their waivers of objections are requested. It is understood that administrative action will be subject to the statutory waiting period when waivers are not enclosed with the application. If required, please schedule this proposal for hearing.

New Mexico Oil Conservation Commission W4-Ta-54-75
July 17, 1975
Page 2

Please direct any inquiries to Mr. W. J. Mueller of this office - telephone (915) 337-8611. Your consideration in this matter is appreciated.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

F. F. Lovering, Manager Southwestern Region

FFL:HM:jc Attachments

cc: With Attachments
New Mexico Oil Conservation Commission-Hobbs
USGS-Hobbs
Exxon Company-U.S.A., Box 1600,
Midland, Texas 79701
Superior Oil Company, Box 1900,
Midland, Texas 79701
H. H. Davis, Milnesand, New Mexico

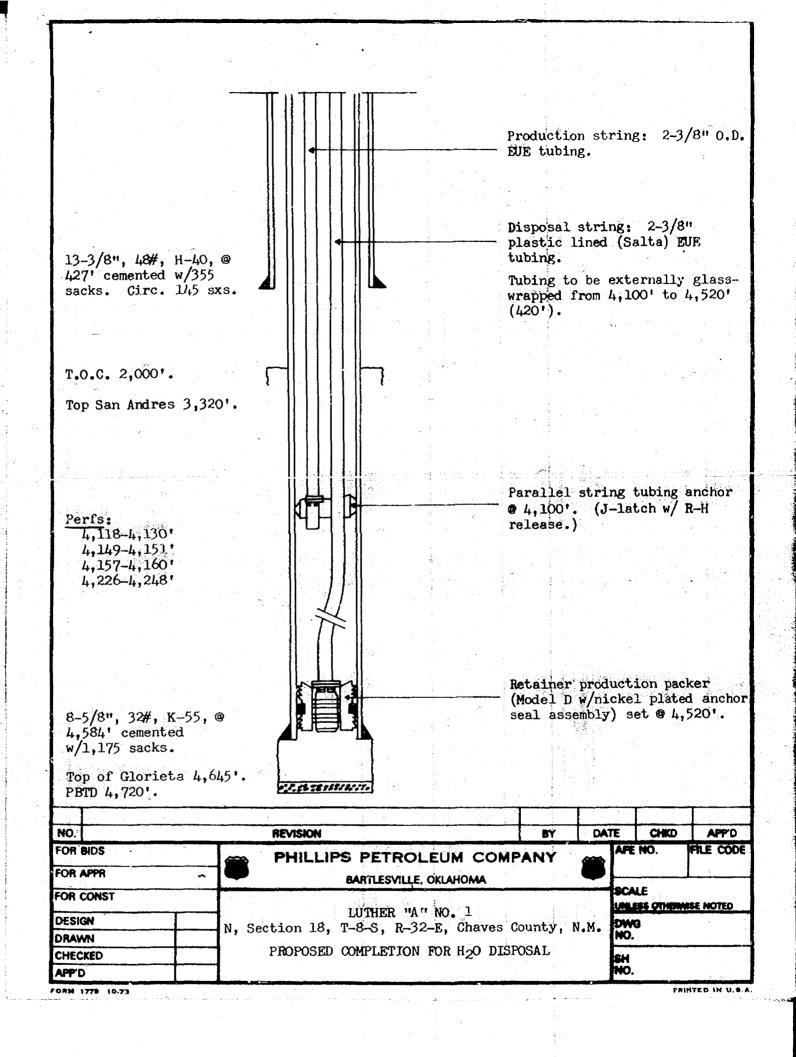
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Date 8/4/75

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

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TOWRSHIP IZE SETT -3/811 4	8S CASING AND FING DEPTH 500 27 W/2 84 850 DB	THE TROM THE 32E TUBING DATA SACKS CEMENT SX Class H Ca Cl X Ca Cl SX TRIW W/10 THE SALTES	south HMPM. TOP OF CEME! Surface	1980 NE AND FEET FROM NT TOP DETERMINED BY Circ. 145 sx.
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-3/8 ⁴¹ 4	CASING AND FING DEPTH 500 27 W/2 84 850	TUBING DATA SACKS CEMENT SX Class H Ca Cl SX TRIW W/10 THE BALL 325	Surface	Circ. 145 sx.
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NATURAL RESOURCES GROUP Exploration and Production

July 17, 1975

Luther-A No. 1
Application to Dually Complete
And for Salt Water Disposal
Unit N, 18, 8-S, 32-E,
Chaves County

File: W4-Ta-54-75

New Mexico Oil Conservation Commission (3) P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey,

Secretary-Director

Centlemon:

We respectfully request administrative approval of exceptions to Rule 112-A-II for a conventional dual completion and to Rule 701-C for salt water disposal into a non-productive reservoir, as they apply to our Luther-A, Well No. 1 - located in Unit N, 660 feet from the south line and 1980 feet from the west line of Section 18, T-8-S, R-32-E, Chaves County. This well currently produces from the San Andres reservoir of the Lonesome San Andres Pool.

The Luther-A No. 1 was drilled to a total depth of 10,620 feet, and plugged back to 4535 feet for its present completion. We propose to clean out the well bore to approximately 4950 feet, spot cement plug, and dually complete in a conventional manner for SWD in the non-productive Glorieta open hole interval of 4584 feet to 4720 feet with the San Andres oil zone between 4118 and 4248 feet. These zones will be separated by a production type packer, and will be operated/produced through separate tubing strings. Forms C-107, C-108, lease and offset plat, diagrammatic completion sketch, and electric logs are attached in support of this request and further detail the proposed completion and operation. A similar oil/salt water disposal dual completion has previously been approved by the Commission in Order No. R-3949, dated April 22, 1970, which covered Phillips' operation of the Marley-A No. 1 = Unit P, Section 3, T-11-S, R-31-E, Chaves County.

By copy hereof and the appropriate forms, offset and surface owners are notified of these applications and their waivers of objections are requested. It is understood that administrative action will be subject to the statutory waiting period when waivers are not enclosed with the application. If required, please schedule this proposal for hearing.

New Mexico Oil Conservation Commission W4-Ta-54-75 July 17, 1975 Page 2

Please direct any inquiries to Mr. W. J. Mueller of this office - telephone (915) 337-8611. Your consideration in this matter is appreciated.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

F. F. Lovering, Manager Southwestern Region

FFL:HM:jc Attachments

cc: With Attachments

New Mexico Oil Conservation Commission-Hobbs

USGS-Hobbs

Exxon Company-U.S.A., Box 1600, Midland, Texas 79701

Superior Oil Company, Box 1900, Midland, Texas

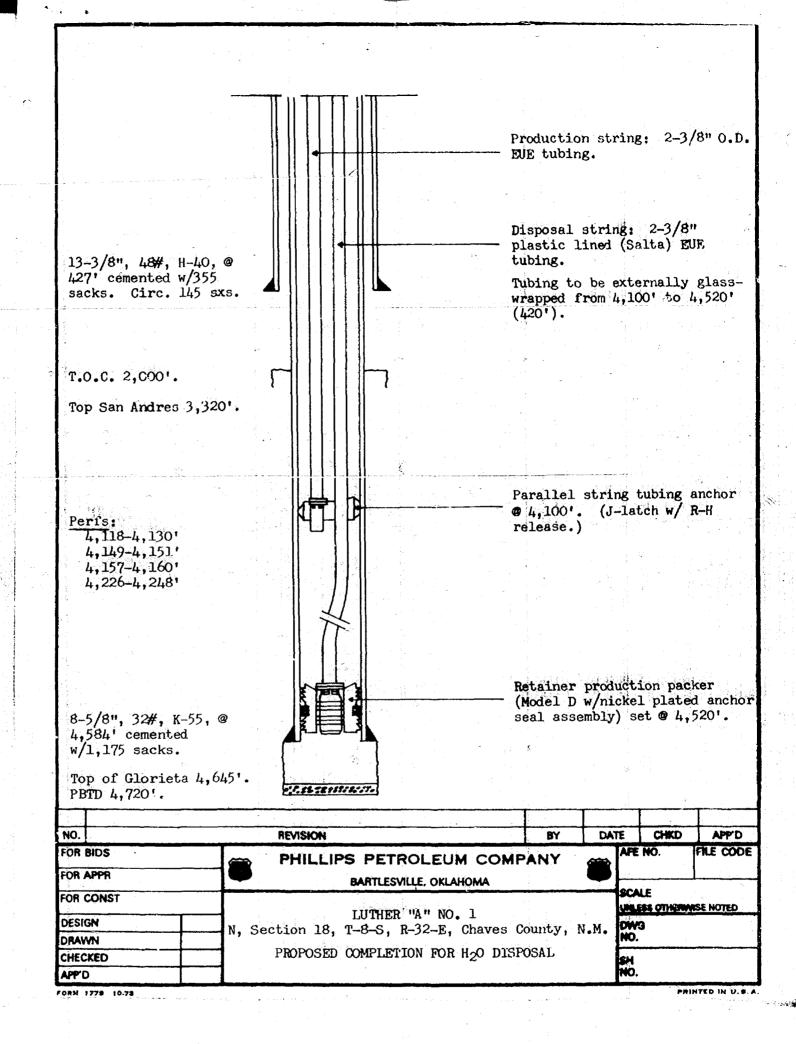
H. H. Davis, Milnesend, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR			ADDRESS		
Phillips Petro	leum Company	•	Room 711.	Phillips Bui	lding, Odessa, TX 79761
LEASE HAME		WELL NO.	riclo		COUNTY
Luther-A		11	Undesigna	ted Glorieta	Chaves
COUNTION	N	60	60	south	1980
UNIT LETTER		ELL 19 FOCATED	PEET FROM TO		INE AND FEET FROM 1
west LINE. SECTION	18 ,,	WHISHIP 85	MANGE 32E	нмрм,	•
	.,	CVSING	AND TUBING DATA		
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEME	NT TOP DETERMINED BY
	13-3/8"	427	500 sx Class H w/2% Ca Cl ₂ .	Surface	Circ. 145 sx.
INTERMEDIATE	8-5/8"	4584	850 sx TRLW w/1 DD 75# salt&325	0½ 2000'	Temperature Surv
LONG STRING			Class H w/2% Ca		
TUAING	,		Cl2	OF TUBING PACKER	
	2-3/8"	45201	Baker Model D	45201	• * * * * * * * * * * * * * * * * * * *
MTHE OF PROPOSED INJECTION FORM	IATION		46451		47201 PBTD
Glorieta Is INJECTION THROUGH TUBING, CASI	HC, OR ANNULUST	PERFORATION	4045'	D INTERVALIST OF THE	
Tubing		Open I		H 4584' to 47	
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NO LIST ACC SUCH PENFORATED INTERV	Drilled	to TD of 1062	201-test Atoka;	PB to 4535,	Yes Yes
4118-4248! (Dually co	Committee and the second secon				
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ANTICIPATED DAILY ANTHONIA INTESTION VOLUME 1 25	500	Clos		Gravity	VITY OR APPROX. CHESSURE (65)
ANSWER YES ON NO WHETHER THE FO ERALIZED TO SUCH A DECRTE AS TO STOCK, IRRIGATION, OR OTHER GENER	BE UNTIL FOR DOMES	TIG. WAYER	Yes	Yes	NO
NAME AND ADDRESS OF SURFACE OW	1. 6. 2. 1. 新華語 (Francisco) 1. 1. 1.	TATE OR FEDERAL LA	an Tabibi an in the same 🛊		
United States Dept.	of Interior	w/H. H. Davi	s; Milnesand, N	ew Mexico , a	s surface lessee
LIST NAMES AND ADDRESSES OF ALL	OPPRATORS WITHIS	DAT-HALF () I MILE OF	THIS INJECTION WELL		
Exxon Company-U	.S.A.: Box 1	600; Mildand,	Texas 79701		and the same of th
A		000 15 13	mara1		
Superior Oil Cor	npany; Box L	yw; Midland,	Texas 79701		من من المسلمان من المسلمان من المساوي المساوي المساوي المساوي المساوي المساوي المساوي المساوي المساوي
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ENT TO LACK OF THE POLLOWINGS	Yes		jer this well	Yes	
RE THE POLLOWING STEMS ATTACHE	D TO PLAY OF AREA		ELECTRICAL LOS	100	DIAGRAMMATIC SKETCH OF WELL
HIS APPLICATION (SEE RULE 701-D)		Yes		Yes	Yes
I horreby c	ertify that the inf	ormation above is	true and complete to th	ic best of my knowle	edge and belief.
V. Val all		14.0	ing the second s	•	and the second s
THULLING W.					
(Signature)	J. Mueller	Senior F	leservoir Enginee	<u>er </u>	7-18-75

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accommy this application, the Ne Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa For office, at the end of the 13-day writing period no protest has been received by the Santa For office, the application will be processed. If a protest is received the opplication will be set for hearing, if the applicant so requests. SEC RULE 701.



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NATURAL RESOURCES GROUP Exploration and Production

July 17, 1975

Luther-A No. 1
Application to Dually Complete
And for Salt Water Disposal
Unit N, 18, 8-S, 32-E,
Chaves County

File: W4-Ta-54-75

New Mexico Oil Conservation Commission (3) P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey, Secretary-Director

Gentlemen:

We respectfully request administrative approval of exceptions to Rule 112-A-II for a conventional dual completion and to Rule 701-C for salt water disposal into a non-productive reservoir, as they apply to our Luther-A, Well No. 1 - located in Unit N, 660 feet from the south line and 1980 feet from the west line of Section 18, T-8-S, R-32-E, Chaves County. This well currently produces from the San Andres reservoir of the Lonesome San Andres Pool.

The Luther-A No. 1 was drilled to a total depth of 10,620 feet, and plugged back to 4535 feet for its present completion. We propose to clean out the well bore to approximately 4950 feet, spot cement plug, and dually complete in a conventional manner for SWD in the non-productive Glorieta open hole interval of 4584 feet to 4720 feet with the San Andres oil zone between 4118 and 4248 feet. These zones will be separated by a production type packer, and will be operated/produced through separate tubing strings. Forms C-107, C-108, lease and offset plat, diagrammatic completion sketch, and electric logs are attached in support of this request and further detail the proposed completion and operation. A similar oil/salt water disposal dual completion has previously been approved by the Commission in Order No. R-3949, dated April 22, 1970, which covered Phillips' operation of the Marley-A No. 1 = Unit P, Section 3, T-11-S, R-31-E, Chaves County.

By copy hereof and the appropriate forms, offset and surface owners are notified of these applications and their waivers of objections are requested. It is understood that administrative action will be subject to the statutory waiting period when waivers are not enclosed with the application. If required, please schedule this proposal for hearing.

New Mexico Oil Conservation Commission W4-Te-54-75 July 17, 1975 Page 2

Please direct any inquiries to Mr. W. J. Mueller of this office - telephone (915) 337-8611. Your consideration in this matter is appreciated.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

F. F. Lovering, Manager Southwestern Region

FFL:HM:jc Attachments

cc:

With Attachments New Mexico Oil Conservation Commission-Hobbs

USGS-Hobbs

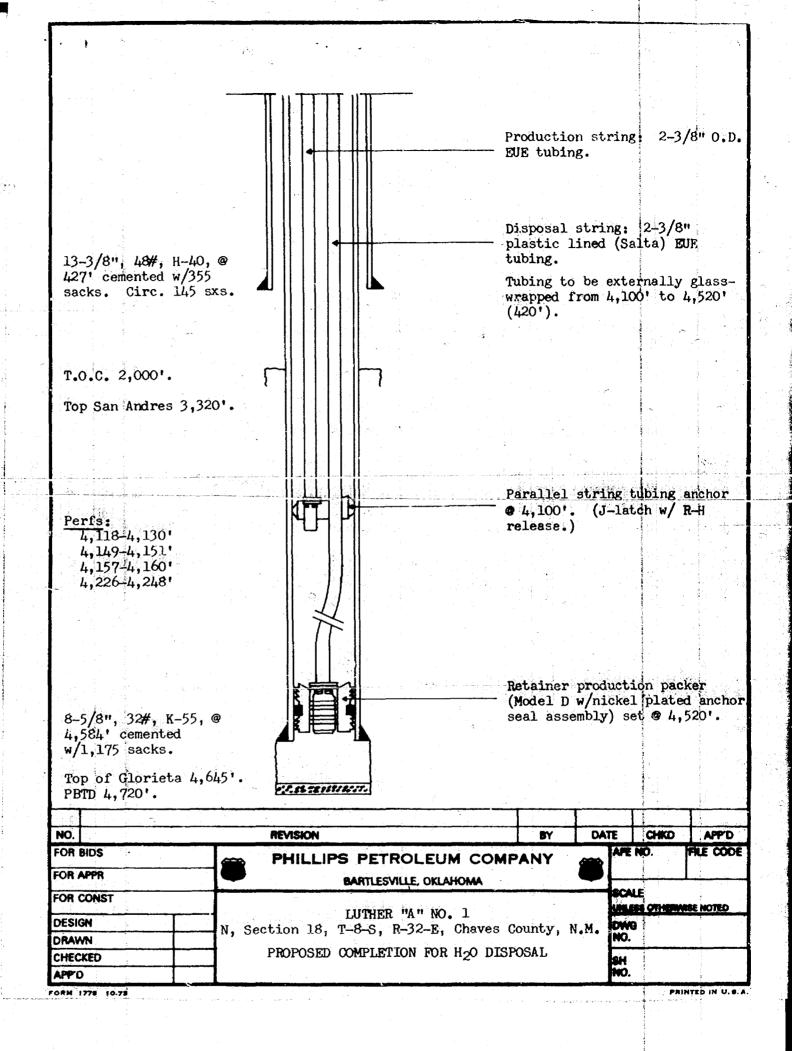
Exxon Company-U.S.A., Box 1600,
Midland, Texas 70701

Superior Oil Company, Box 1900, Midland, Texas 79701 H. H. Davis, Milnesand, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

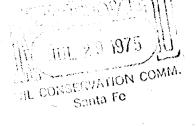
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OIL CONSERVATION COMMISSION Hobbs DISTRICT



OIL CONSERVATION COMMISSION	DATE July 25, 1975
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SANTA FE, NEW MEXICO	RE: Proposed MC X
	Proposed DHC
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Gentlemen:	
I have examined the application	dated
for the Phillips Pet. Co. Luther A	#1-N 18-8-32
for the Indiana	ase and Well No. Unit, S-T-R
Operator	Ase and well No.
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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. 4333 Order No. R-3949

APPLICATION OF PHILLIPS PETROLEUM COMPANY FOR A DUAL COMPLETION AND SALT WATER DISPOSAL, CHAVES COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 15, 1970, at Hobbs, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 22nd day of April, 1970, 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 authority to complete its Marley "A" Well No. 1, a wildcat well, located in Unit P of Section 3, Township 11 South, Range 31 East, NMPM, Chaves County, New Mexico, as a dual completion to produce oil from the San Andres formation in the interval from 4148 feet to 4165 feet through 2 3/8-inch tubing and to dispose of produced salt water into the San Andres formation in the perforated interval from 4344 feet to 4800 feet through a parallel string of 2 3/8-inch plastic-lined tubing, with separation of the zones by a packer set at approximately 4315 feet.
- (3) That approval of the dual completion and salt water disposal as set out above will prevent the drilling of unnecessary

wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Phillips Petroleum Company, is hereby authorized to complete its Marley "A" Well No. 1, a wildcat well, located in Unit P of Section 3, Township 11 South, Range 31 East, NMPM, Chaves County, New Mexico, as a dual completion to produce oil from the San Andres formation in the interval from 4148 feet to 4165 feet through 2 3/8-inch tubing and to dispose of produced salt water into the San Andres formation in the perforated interval from 4344 feet to 4800 feet through a parallel string of 2 3/8-inch plastic-lined tubing, with separation of the zones by a packer set at approximately 4315 feet;

PROVIDED HOWEVER, that the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(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

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

SEAL

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

esr/

