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PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79760 PHILLIPS BUILDING, FOURTH & WASHINGTON

exploration & production department cc: N.M.O.C.C., Hobbs (Attach.) Pan Am (Attach.) State Land Office

December 17, 1968

Ranger Lake Unit--Tract 2, Well No. 1, Ranger Lake Penn Field, Lea County, New Mexico Application to Convert Well and Inject Water

File: W3-McC-649-68

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

Gentlemen:

Attached is our application and supporting data for the conversion of Ranger Lake Unit Tract 2 Well No. 1, Unit P, Section 23, T-12-S, R-34-E, Lea County, New Mexico, and injection of water into the well.

The Ranger Lake Unit was originally approved by NMOCC Order No. R-2751, July 22, 1964. This order granted Phillips Petroleum Company authority to operate this unit with 7 injection wells.

As shown on Forms C-ll6 attached, the affected wells offsetting injection well 2-W-2 began to show waterflood response by increased fluid production in 1965 and continued increasing through early 1966. However, well 2-1 showed increased water production with decreasing oil production in late 1966 and in November, 1966, tested 100% water and was shut down. This response indicated that communication existed between injection well 2W2 and well 2-1, and, as a result, injection into well 2W2 was stopped in late 1966. Wells 2-3 and 2-5 continued to show increased fluid production but with an increasing percentage of water until early 1968 when production began to decline.

Recent injection profiles show that Well 2W2 will accept injection only into the upper portion of the pay interval while No. 2-1 will accept injection into parts of the entire interval.

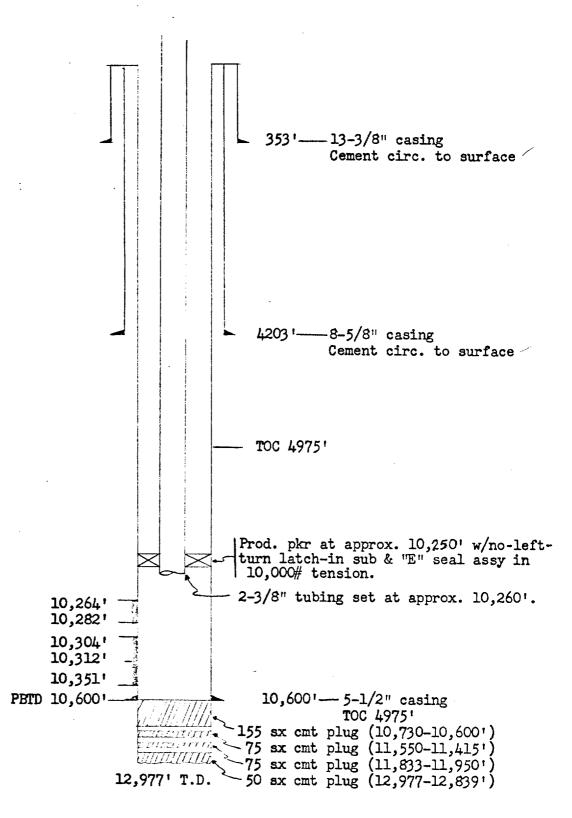
In order to continue the most expeditious operations of the unit, it is proposed to shut down well 2-W-2 and convert well 2-1 to injection. This will allow us to continue the injection response in wells 2-3 and 2-5 with better distribution of injected fluid in the pay section. Wells 2-W-2 and 2-1 are structurally flat and both are below or near the oil-water contact of the field.

In view of these facts, we request your administrative approval of our application.

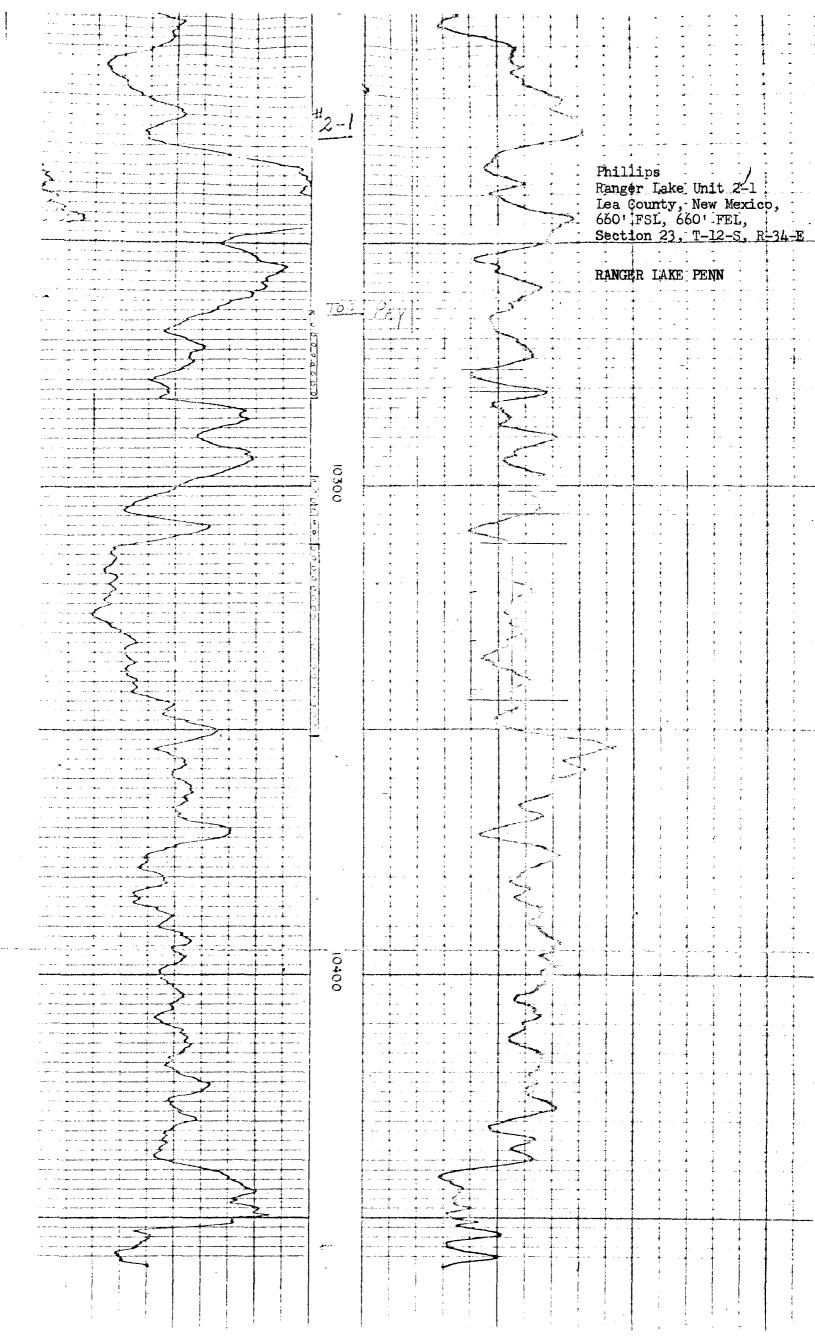
ery truly yours, pueru F. F. Lovering

F. F. Lovering Manager, Southwestern Region

BEB:lj Attachment



Ranger Lake Unit Well No. 2-1 Lea County, New Mexico



O OIL CONSERVATION COMMISSION CAS-OIL RATIO TESTS Revised 1-1-65	County	TYPEOF TEST - (X) Scheduled Completion Special	CHOKE TBG. DAILY LENGTH PROD. DURING TEST G.	PRESS. ABLE	0 11 25 2273	166 55 33 600	286 16 35 2188	WIST I ZII	391 0 0	Shut Down			In of oil produced on the official test. a rate not exceeding the top unit allowable for the pool in which well is advantage of this 25 percent tolerance in order that well can be assigned. I hereby certify that the above information is true and complete to the best of my know- ledge and belief.		servation commission in accordance with (Signature)	(Tide)	(Date)
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NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

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NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116

December 17, 1968

Application to Convert Well and Inject Water-Ranger Lake Unit Tract 2 Well 1

Pile: W3-McC-651-68

Gordan H. Cone P. O. Box 1148 Lovington, New Mexico A. D. Jones Estate Tatum, New Mexico

Gentlemen:

Attached is a copy of our application to the New Mexico Oil Conservation Conmission to convert and inject water in our Manger Lake Unit Tract 2 Well No. 1, Unit P. Section 23, T-12-5, N-34-E, Lee County, New Mexico.

This will serve as motification to you of our proposal, as required by regulations of the Commission.

Yours very truly,

PHILLIPS PETROLEUE COMPANY

P. F. Lovering Manager, Southwestern Region

BEB:1j Attachment

cc: N.M.O.C.C., Santa Fe, N. M. N.M.O.C.C., Hobbs, N. M.

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	ODESSA, TEXAS 79760 PHILLIPS BUILDING, FOURTH & WASHINGTON		X SU	
	EXPLORATION & PRODUCTION DEPARTMENT		<u></u>	
	January 6, 1969			

Re: Ranger Lake Unit, Tract 2, Well No. 1 -Application to Convert well and inject water

File: W3-McC-3-69

New Mexico Conservation Commission Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. J.E. Kapteina

Dear Sir:

As requested in your letter of December 31, 1968, attached are two additional copies of our subject application.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

Kovering F. F. Lovering

BEB/ep

Att. (2)