

Reply to: T. Harold McLemore
(915) 337-8611, Ext. 257

cc: New Mexico Oil Conservation Commission
Hobbs, New Mexico



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79760
PHILLIPS BUILDING, FOURTH & WASHINGTON

EXPLORATION & PRODUCTION DEPARTMENT

June 6, 1973

Offset Operators
Attachments

SWD - 144

Due June 30

7-5: Salt Water Disposal Application--
Ranger No. 16, West Ranger Lake
(Devonian) Field, Lea County,
New Mexico

File: W2-Ed-332-73

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New Mexico Oil Conservation Commission - 3
P. O. Box 2088
Santa Fe, New Mexico 87105

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

Gentlemen:

We respectfully request administrative approval of our attached Form C-108, "Application to Dispose of Salt Water by Injection into a Porous Formation", as it applies to our Ranger Well No. 16, West Ranger Lake (Devonian) Field, Lea County. This well is located in Unit K, 1980 feet from the south and west lines, Section 26, T-12-S, R-34-E. Water disposal will be into the Devonian open hole interval from 12,816 feet to 12,863 feet. Further details of this well completion and the proposed disposal operation are detailed in the named form.

This well was originally drilled to a total depth of 12,863 feet with production casing set at 12,816 feet and completed in the West Ranger Lake (Devonian) Gas Pool. Subsequently, it was plugged back with cement plugs at 12,400-859 feet and 10,100-600 feet, with a new PBTD of 10,100 feet completed in the Ranger Lake (Bough) Field, from a perforated interval of 9958 feet to 9976 feet. We propose to squeeze cement and abandon the Bough perforations with fifty sacks of Class H cement with 3/10% Diacel LWL, 3% Diacel-A and 1/4# per sack of Flocele. The Bough perforations will then be tested to 1000# and abandoned. The well bore will then be cleaned out to the old T.D. of 12,863 feet and converted to injection service with water disposal being in the open hole interval from 12,816-863 feet.

Offset operators, as listed within the body of the application, are hereby notified of this proposal. They are requested to furnish you and this office copies of their waiver of objections.

It is understood that administrative action on the request is subject to a 15-day waiting period. Your consideration will be appreciated.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

F. F. Lovering
F. F. Lovering, Manager
Southwestern District

HM:rm

Attachments

Administrative Action Requested

Form C-108
Revised 3-1-68

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Phillips Petroleum Company		ADDRESS Room 711, Phillips Bldg., Odessa, Texas 79761	
LEASE NAME Ranger	WELL NO. 16	FIELD West Ranger Lake (Devonian)	COUNTY Lea
LOCATION UNIT LETTER <u>K</u> ; WELL IS LOCATED <u>1980</u> FEET FROM THE <u>south</u> LINE AND <u>1980</u> FEET FROM THE <u>west</u> LINE, SECTION <u>26</u> TOWNSHIP <u>12-S</u> RANGE <u>34-E</u> NMPM. <u>Lea</u>			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8"	370'	480 Class H w/2% CaCl ₂ ; 1/2" Texplug	surface	Circ 150 sx.
INTERMEDIATE	8-5/8"	4200'	1/2" in 1st 200 sx 400 Class H	3600'	Temp. survey
LONG STRING	5-1/2"	12816'	600 sx Trinity IW w/3/10%DD, 150 Neat	6800'	Temp. survey
TUBING	2-3/8"	12600'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model D production		

NAME OF PROPOSED INJECTION FORMATION Devonian	TOP OF FORMATION 12,800'	BOTTOM OF FORMATION 12,863' T.D.
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IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? tubing	PERFORATIONS OR OPEN HOLES open hole	PROPOSED INTERVAL(S) OF INJECTION 12,816-63'
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IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Devonian-Gas; Bough C - Oil	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes
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LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH
Bough-C (oil zone) perfs 9958-76' squeezed w/50 sx Class H cmt, tested to 1000#.

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 300'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 10,400' (Penn)	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA Unknown
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ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 25	MINIMUM 600	MAXIMUM 600	OPEN OR CLOSED TYPE SYSTEM closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? pressure	APPROX. PRESSURE (PSI) 3000 (max.)
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ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE Yes	WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No
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NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)
State Lease E 906 (Lessee = A. D. Jones, Est., / Attention: R. C. Jones
Roswell Highway, Tatum, New Mexico)

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL
Amoco Production Co., Box 68, Hobbs, N.M., 88240; Amerada Hess Corp., Box 817, Seminole, Texas, 79360; American Trading & Prod. Co., Box 992, Midland, Texas 79701; J. C. Barnes Oil Co., Box 505, Midland, Texas, 79701; Gordon M. Cone, Box 1148, Lovington, N.M., 88260; L. R. French, Box 4577, Odessa, Texas, 79760; Getty Oil Co., Box 249, Hobbs, N.M., 88240; J. I. O'Neill, Jr., 410 W. Ohio, Midland, Texas, 79701; Marathon Oil Co., Box 2409, Hobbs, N.M., 88240; Sun Oil Co., 12850 Hillcrest Rd., Dallas, Texas, 75230; Texaco Inc., Box 3109, Midland, Texas, 79701; Texas Pacific Oil Co., Box 4067, Midland, Texas, 79701, and Union Oil Company of California, Box 671, Midland, Texas, 79701.

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes	SURFACE OWNER Yes	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes	PLAT OF AREA Yes	ELECTRICAL LOG Yes
		DIAGRAMMATIC SKETCH OF WELL Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

W. J. Mueller
(Signature)

W. J. Mueller Senior Reservoir Engineer
(Title)

6-5-73
(Date)

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

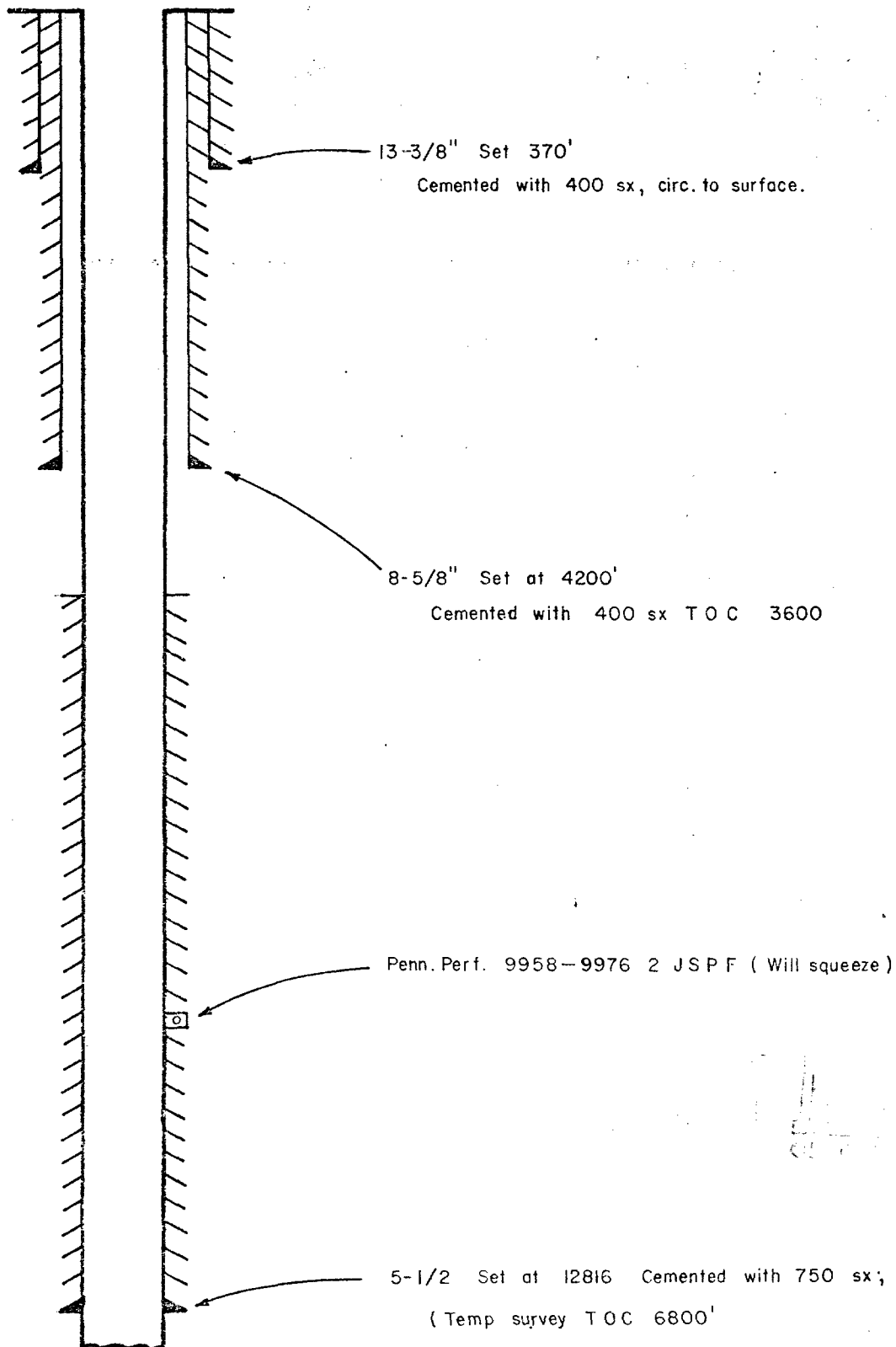
PHILLIPS PETROLEUM COMPANY

RANGER NO. 16

RANGER LAKE FIELD

WELL DIAGRAM

Elevation ; 4146' G.L.
4160' R.K.B.



TD 12863

