

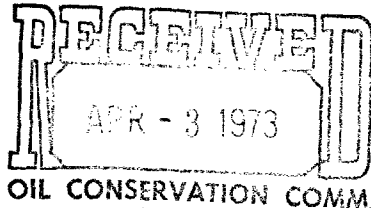


PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79760
PHILLIPS BUILDING, FOURTH & WASHINGTON

EXPLORATION & PRODUCTION DEPARTMENT

March 30, 1973



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

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

File: W2-Ed-192-73

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. 5, Ranger Lake (Penn) Field, Lea County. This well is located in Unit B, 660 feet from the north and 1978 feet from the east lines Section 26, T-12-S, R-34-E. Water disposal will be into the Pennsylvanian interval 10,241 feet to 10,327 feet. This proposal is detailed within the named form.

The Ranger Lease was re-established upon the dissolution of the Ranger Lake Unit, a secondary waterflood project, effective April 1, 1973. That waterflood unit was approved and had operated under Commission Order No. R-2754 which provided for injection into the Pennsylvanian formation. Now that secondary recovery unit operations have ceased, we must provide means of salt water disposal in order to continue the production of the Ranger Lease, and even though the water will be disposed into a productive and producing formation, the primary injection use of the Ranger No. 5 will be salt water disposal.

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 this 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

cc: New Mexico Oil Conservation Commission, Hobbs, New Mexico

Offset Operators
Attachments

ADMINISTRATIVE ACTION REQUESTED

Form C-108
Revised 3-1-68

SALT WATER DISPOSAL

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. 5	FIELD Ranger Lake (Penn)	COUNTY Lea
LOCATION UNIT LETTER <u>B</u> ; WELL IS LOCATED <u>660</u> FEET FROM THE <u>north</u> LINE AND <u>1978</u> FEET FROM THE <u>east</u> LINE, SECTION <u>26</u> TOWNSHIP <u>12-S</u> RANGE <u>34-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8"	355'	355	Circ at surface	---
INTERMEDIATE	8-5/8"	4223'	648	Circ at surface	---
LONG STRING	5-1/2"	10360'	920	900	Temperature survey
TUBING	2-3/8"	10200'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model D		

NAME OF PROPOSED INJECTION FORMATION Pennsylvanian		TOP OF FORMATION 10238'	BOTTOM OF FORMATION 10340' PBTD
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing	PERFORATIONS OR OPEN HOLES Perfs	PROPOSED INTERVAL(S) OF INJECTION 10241-66', 10274-80', 10286-305', 10309-27'.	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil well	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No	

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

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 10,000'	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 12,800'
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 25	MAXIMUM 600	OPEN OR CLOSED TYPE SYSTEM closed
IS INJECTION TO BE BY GRAVITY OR PRESSURE? pressure		APPROX. PRESSURE (PSI) 3000 (Max.)
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

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) State Lease No. E906 (Leasee=A.D. Jones, Est., Attn: 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 Prod. Co., Box 68, Hobbs, N.M. 88240; Amerada Hess Corp. Box 817, Seminole, Texas 79360 Amer. Trading & Prod. Co., Box 992, Midland, Texas 79701; J.C. Barnes, Box 505, Midland, Texas 79701 Gordon M. Cone, Box 1148, Lovington, N.M. 88260; L.R. French, Jr., 1204 ABC Bldg., Odessa, Texas 79761 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 Road, Dallas, Texas 75230 Texaco Inc., Box 3109, Midland, Texas 79701; Texas Pacific Oil Co., Box 4067, Midland, Texas 79701; Union Oil Co. 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, Senior Reservoir Engineer

3-29-73

(Signature)

(Title)

(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.

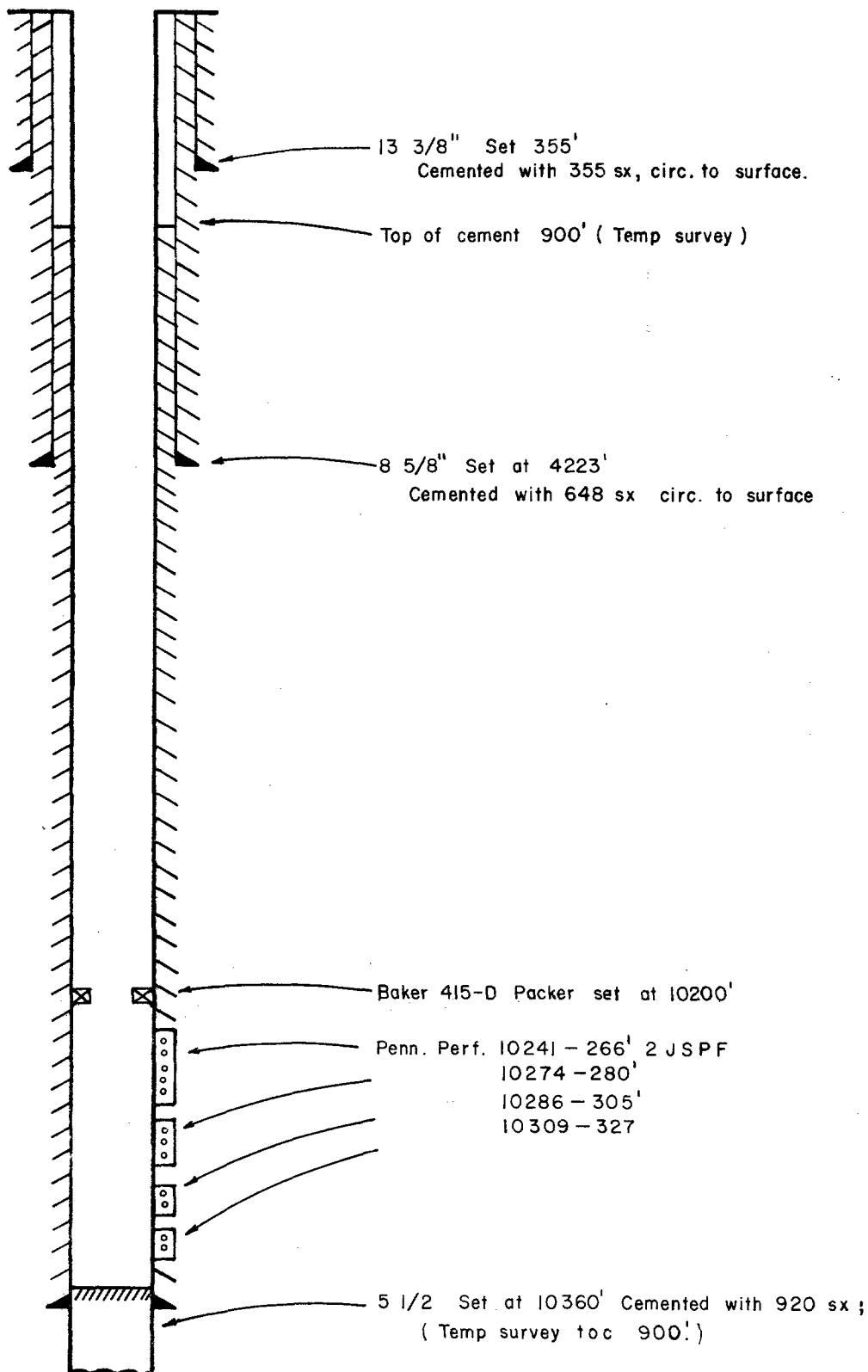
PHILLIPS PETROLEUM COMPANY

RANGER NO. 5

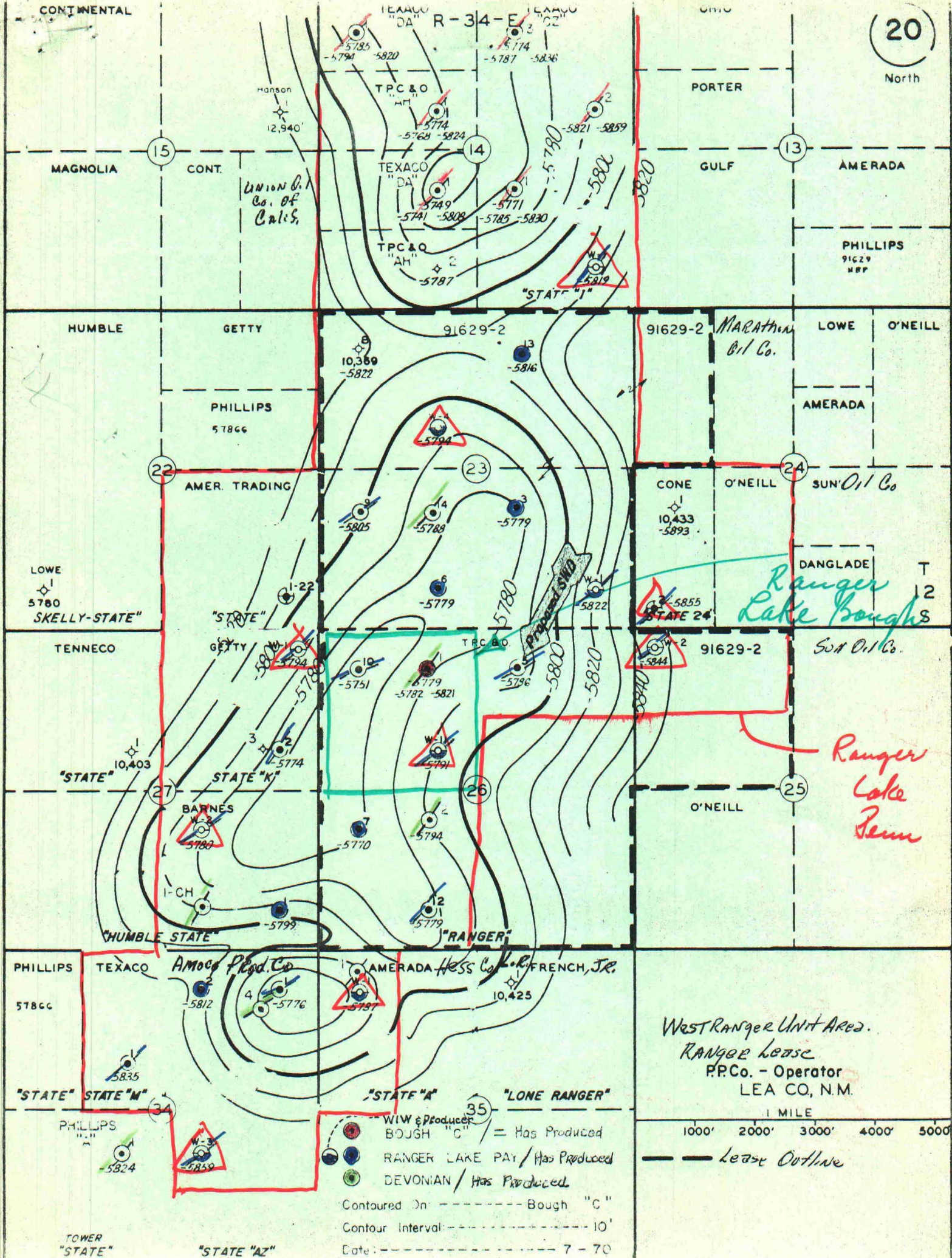
RANGER LAKE FIELD

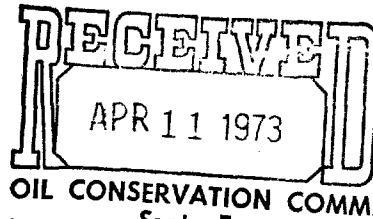
WELL DIAGRAM

Elevation ; 4143' G.L.
4156' R.K.B.



TD 10365
PB 10340





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

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

Salt Water Disposal
Phillips Petroleum Company
Ranger No. 5
Ranger Lake Penn Field
Lea County, New Mexico

Gentlemen:

Texas Pacific Oil Company, Inc., as an offset operator, has been duly notified of the proposed injection. We have no objection to the proposal.

Yours very truly,

TEXAS PACIFIC OIL COMPANY, INC.



R.J. Womack
District Manager

Date April 6, 1973

cc: Phillips Petroleum Co.
Phillips Bldg., 4th & Washington
Odessa, Texas 79760
Attn: Mr. T. Harold McLemore

AMERADA HESS CORPORATION

April 17, 1973

DRAWER 817
SEMINOLE, TEXAS 79360
915-758-5805



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

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

Dear Sir:

Amerada Hess Corporation hereby waives objection to the application of Phillips Petroleum Company to dispose of salt-water into the Pennsylvanian interval from 10,241' - 10,327' in their Ranger Well No. 5, Ranger Lake (Penn) Field.

Yours very truly,

L. J. Crandal
Regional Technical Services Manager

bh

cc: Phillips Petroleum Company
Attention Mr. T. Harold McLemore
Phillips Building, Fourth & Washington
Odessa, Texas 79760