

McClellan Oil Corporation

January 19, 1977

New Mexico Oil Conservation Commission
P. O. Box 2088
Sante Fe, New Mexico 87501

Re: Application to Convert
East Henshaw Unit
Tract 18-4 to Water Injection
Eddy County, New Mexico

Gentlemen:

Under the provisions of Order No. R-5010, McClellan Oil Corporation hereby applies to the Commission for permission to expand its East Henshaw Unit Water Flood Project in the West Henshaw Grayburg Pool, Eddy County, New Mexico, by converting Tract 18-4 to water injection service.

We will inject into the Premier formation at a depth of approximately 3,000' using fresh water supplied by the City of Carlsbad.

Injection rates will be 100 barrels of water per day initially at a maximum plant pressure of 2,200 psig.

Attached is the necessary information required under Rule 701. Should any additional information be needed, please advise.

Yours very truly,

McCLELLAN OIL CORPORATION

Robert R. Graham
Robert R. Graham
Petroleum Engineer

RECEIVED

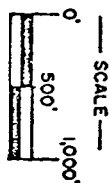
JAN 26 1977

O. C. C.
ARTESIA, OFFICE

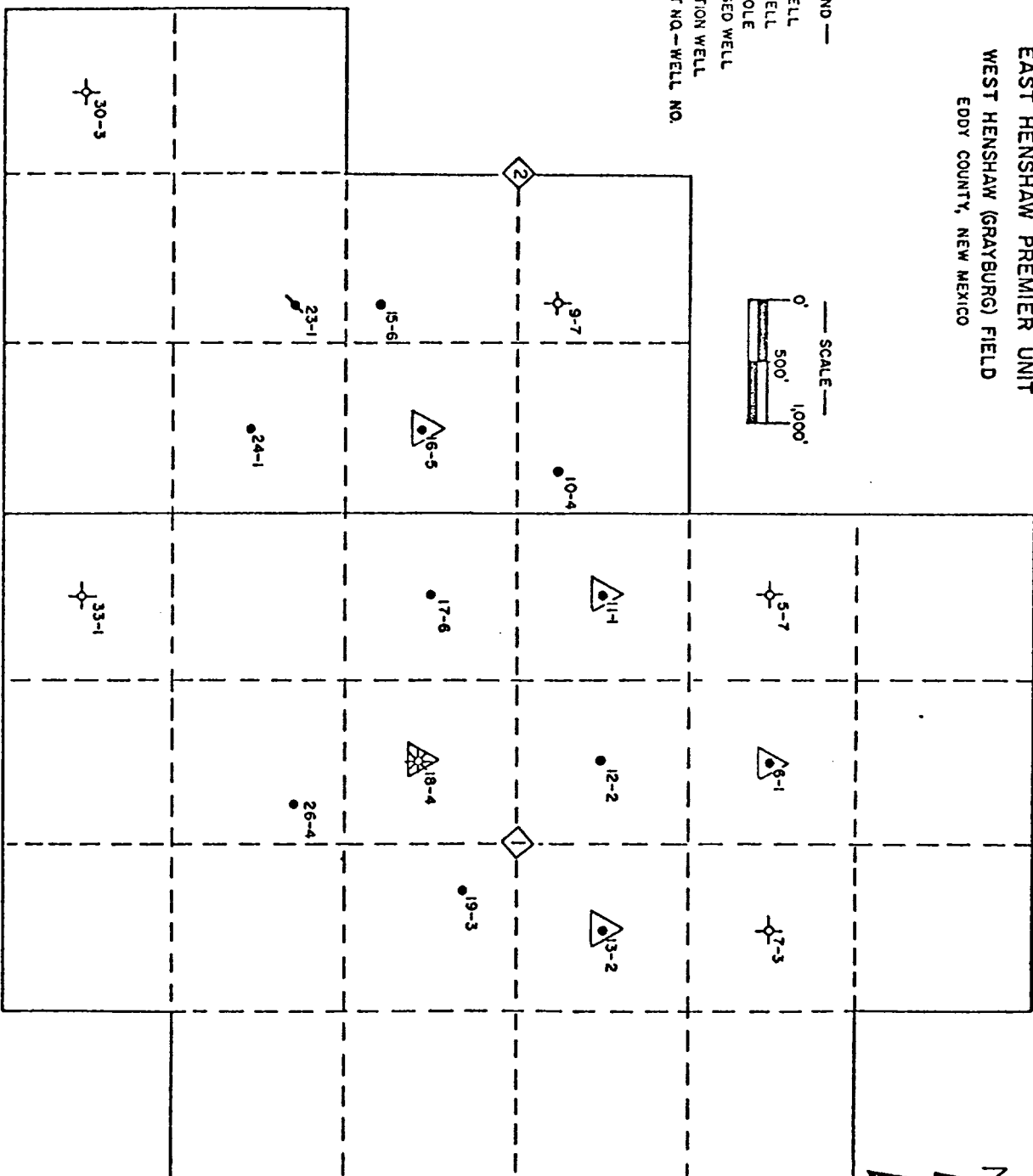
cc: Oil Conservation Commission - Artesia

Attachments: Plat showing location of well
Plat showing offset operators
Copy of application for USGS approval
Copy of Gamma Ray Neutron Log
Schematic sketch of proposed injection well

McCLELLAN OIL CORPORATION
 EAST HENSHAW PREMIER UNIT
 WEST HENSHAW (GRAYBURG) FIELD
 EDDY COUNTY, NEW MEXICO



- LEGEND —
- OIL WELL
 - ✱ GAS WELL
 - ✱ DRY HOLE
 - ✱ PLUGGED WELL
 - △ INJECTION WELL
 - II-TRACT NO. - WELL NO.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

FED. NM-06407-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Water Injection Well		7. UNIT AGREEMENT NAME East Henshaw Unit	
2. NAME OF OPERATOR McClellan Oil Corporation		8. FARM OR LEASE NAME Tract 18	
3. ADDRESS OF OPERATOR Box 2249, Wichita Falls, Texas 76307		9. WELL NO. 4	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 3,300' FSL & 1,980' FWL		10. FIELD AND POOL, OR WILDCAT West Henshaw Grayburg	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 1, T16S, R30E	
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3,942 DF	12. COUNTY OR PARISH Eddy	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐
REPAIR WELL ☐	CHANGE PLANS ☐
(Other) <u>Convert to water injection</u>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We propose to convert this well to water injection service by running an R-4 tension packer on tubing and setting the packer at a depth of approximately 2,930' which is 100' above the top of the pay zone.

18. I hereby certify that the foregoing is true and correct

SIGNED

Robert P. Abraham

TITLE

Petroleum Engineer

DATE

1/7/77

(This space for Federal or State office use)

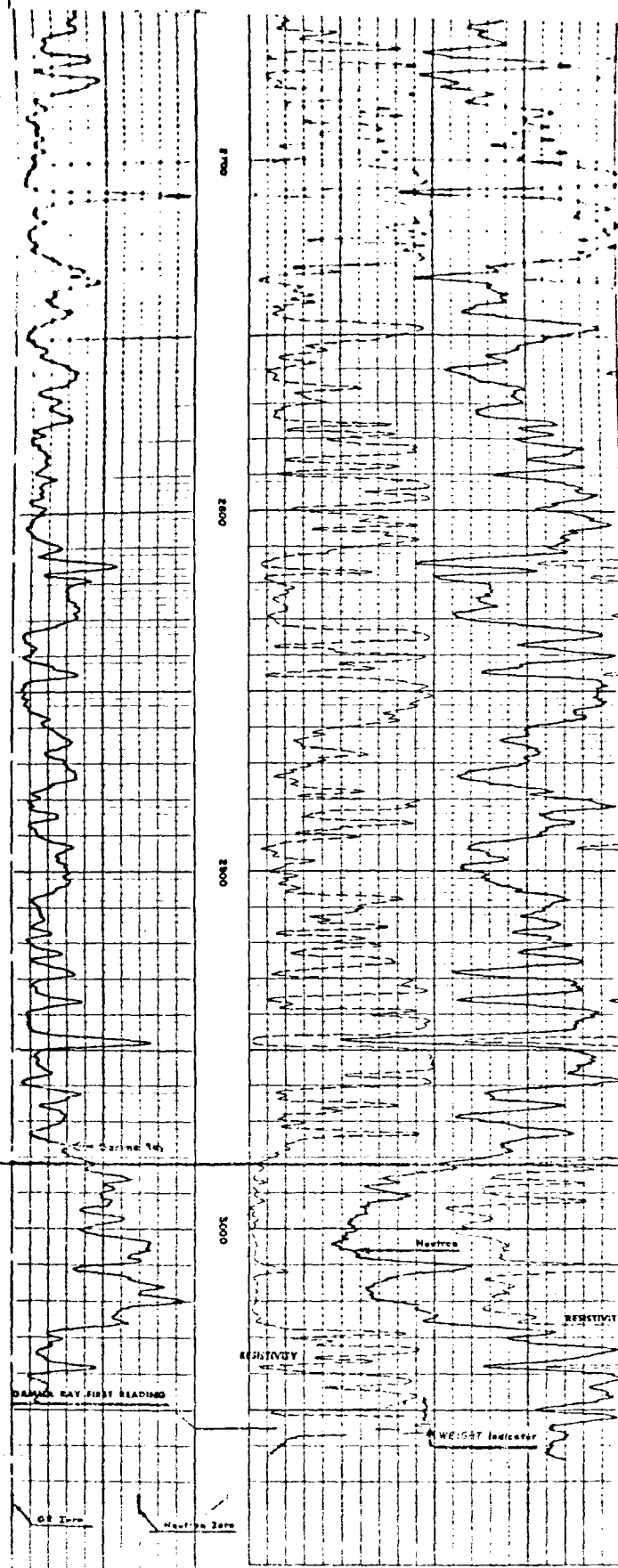
APPROVED BY

TITLE

DATE

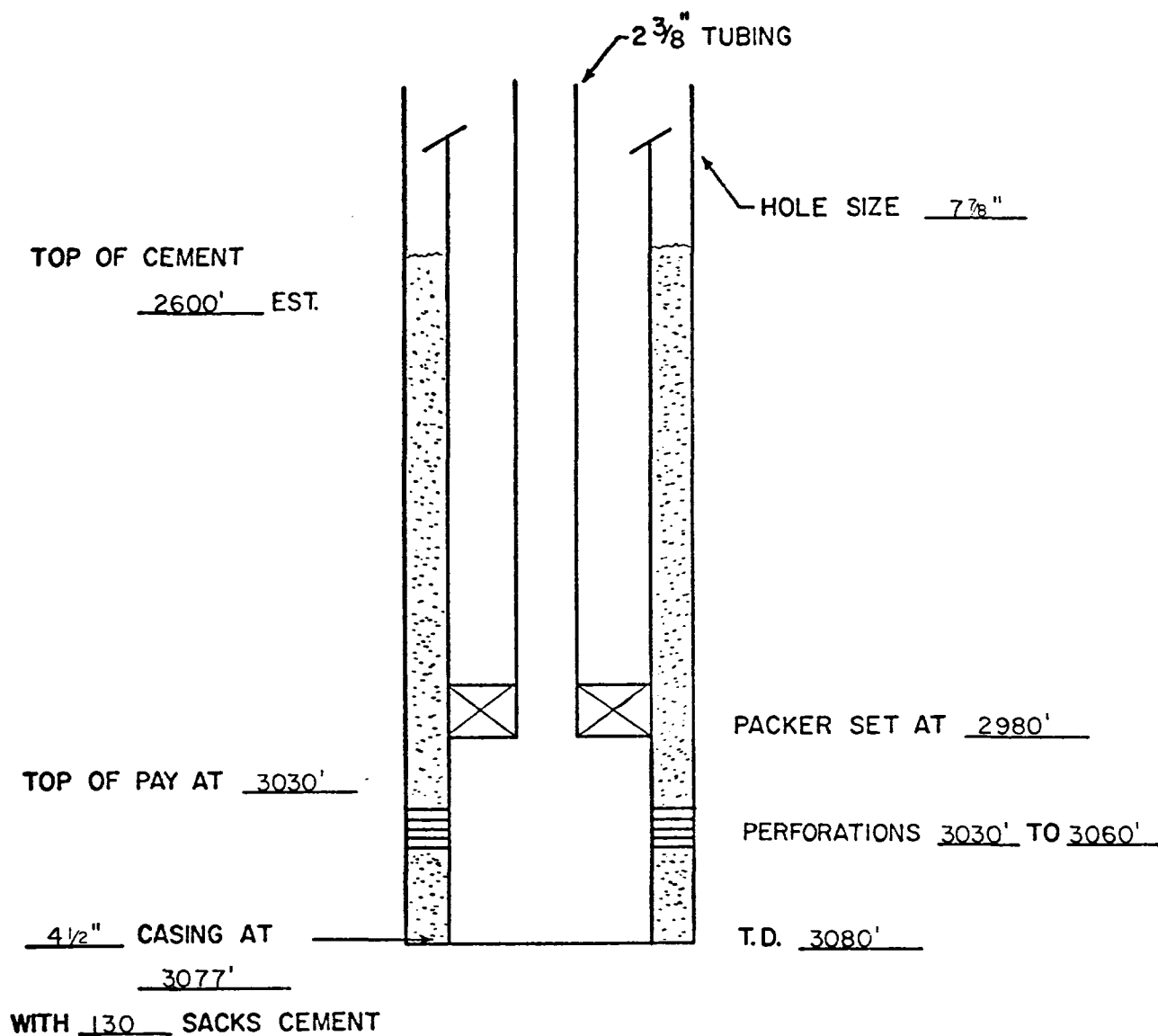
CONDITIONS OF APPROVAL, IF ANY:

WELTAP 343		COMPANY SOUTHERN LOG PRODUCTION COMPANY	
COMPANY Southern Union Production C. C. C. Co.		WELL TAYLOR # 4 FIELD WEST HENSHAW COUNTY EDOY STATE NEW MEXICO	
WELL TAYLOR # 4 PROD. West Henshaw FIELD West Henshaw State N.M.		Location 3300' FSL 1980' FWL Sec. 1, Twp. 16-S, Rce. 30-E 1-2-2-24	
Sec. _____ 1-2-2-24 Page _____		Owner Service Forxo	
Permanent Datum Ground Level Elev. 3933		Elev. 3943 3932 3933	
Log Measured From Kelly Bucking 10' Above Perm. Datum Drilling Measured From Kelly Bucking 10' Above Perm. Datum			
Date 6-14-61			
Rum Ma - One -			
Depth - Driller 3080			
Depth - Water 3092			
Run Log Inter. 3094			
Top Log Inter. 30			
Casing - Driller 8-5/8" 192			
Casing - Water 192			
R-Size 6-3/4			
Type Fluid in Hole Mud			
Water Base			
Dens. 10.2 31			
pH 4.8 ml			
Source of Sample Pit			
R. @ Mean Temp. 05 @ 75			
R. @ Mean Temp. 08 @ 75			
R. @ Mean Temp. 08 @ 75			
Source Measured			
R. @ BHT 0.15 @ 90			
Time Since Core 3 Hours			
Max. Rec. Temp. 90			
Equip. Location 3000' Elev.			
Recorded By P. C. Hays			
Witnessed By N. F. La. 24			



McCLELLAN OIL CORPORATION
EAST HENSHAW PREMIER UNIT
WEST HENSHAW GRAYBURG FIELD
EDDY COUNTY, NEW MEXICO

DIAGRAMMATIC SKETCH
PROPOSED WATER INJECTION WELL
WELL NO. 18-4



OTHER WELL DATES:

COMPLETION DATE: 9-10-62

ELEVATION: 3943'

TREATMENT: 100 GAL. ACID & 40,000 # SAND

ORIGINAL OWNER, LEASE & WELL NO.: SOUTH UNION, FEDERAL TAYLOR NO. 4