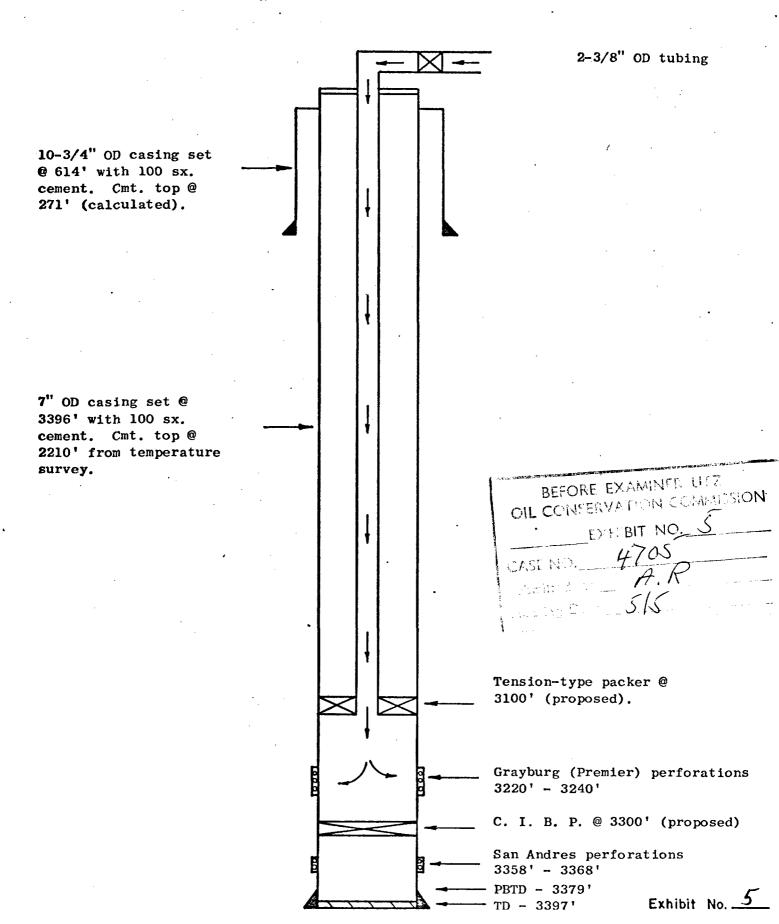
MAX FRIESS MA WELL NO. 1 660' FNL & 1980' FEL Sec. 30, T-17-S, R-31-E EDDY COUNTY, NEW MEXICO INJECTION WELL DIAGRAM 2-3/8" OD tubing 8-5/8" OD casing set @ 524' with 50 sx. cement. Cmt. top @ 271' (calculated). 7" OD casing set @ 1852' with 100 sx. cement. Cmt. top @ 630! (calculated). BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSIO EXHIBIT NO. 4Submitted by A.K Hearing Date 5/5/72 5" OD casing set @ 2830' with 100 sx. cement. Cmt. top @ 1980' from temperature Tension-type packer @ survey. 2600' (proposed). 3½" OD FJ Casing to be set from 2630' to 3260' and be cemented with enough cement to circulate to top of liner. Proposed Grayburg (Premier) perforations 3100'-3240' Proposed PBTD - 3260' Protosed Till A divid! Present TD - 3439 Exhibit No. .

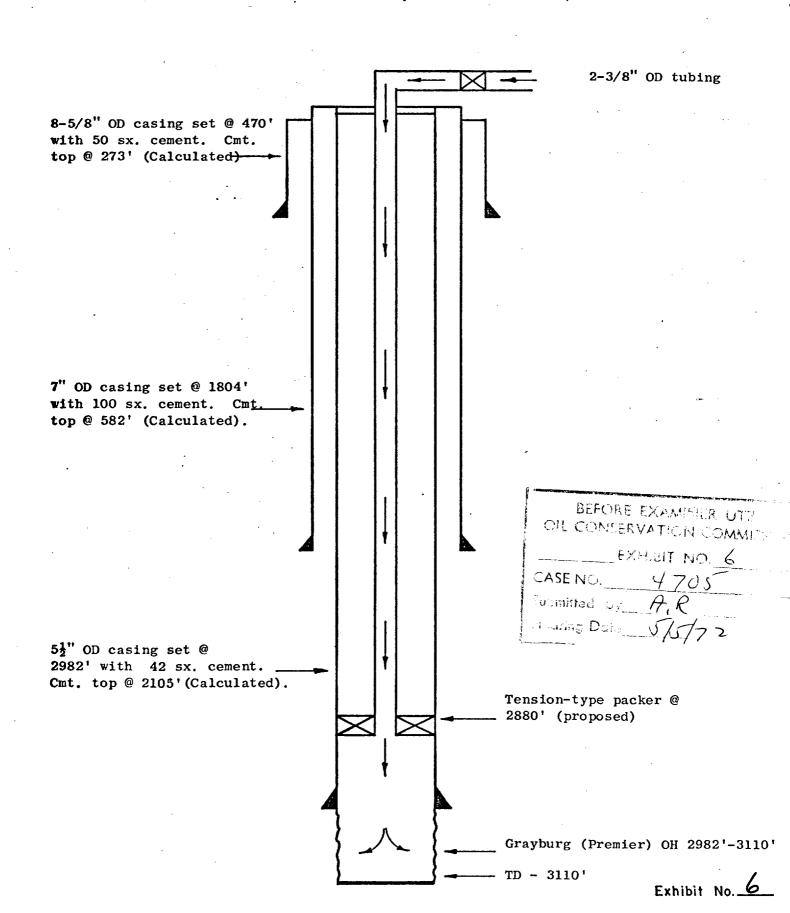
HETELD COMPANY

ATLANTIC RICHFIELD COMPANY MAX FRIESS MA WELL NO. 4 660' FEL & 1980' FNL Sec. 30, T-17-S, R-31-E EDDY COUNTY, NEW MEXICO INJECTION WELL DIAGRAM

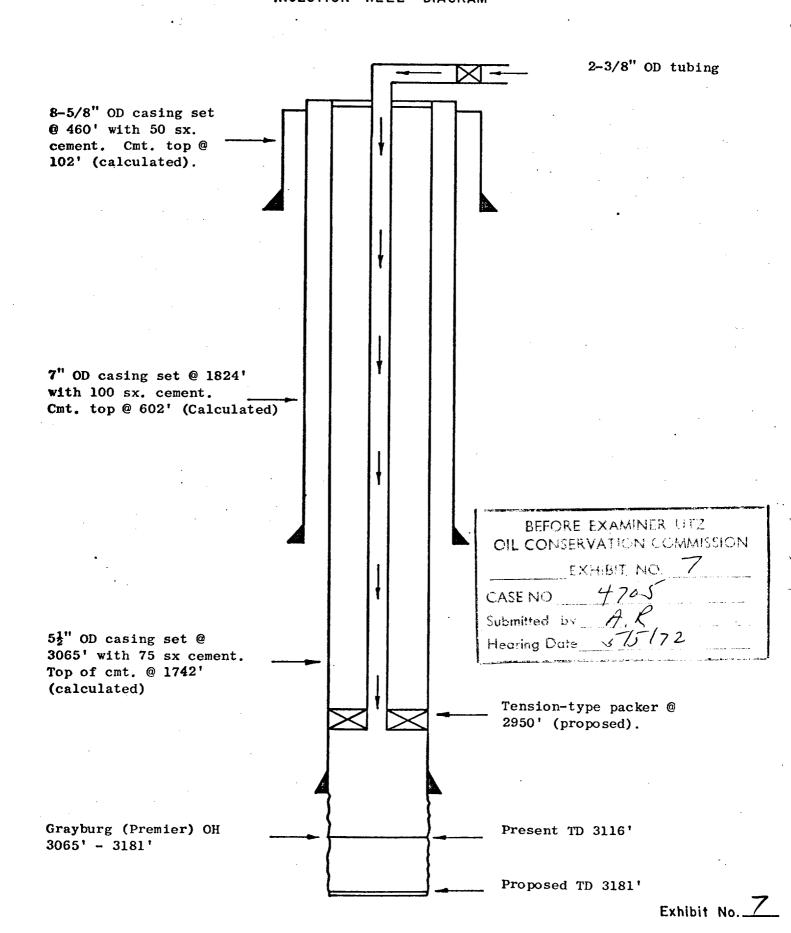


ÁTLANTIC RICHFIELD COMPANY FRIESS FEDERAL WELL NO. 2 1980' FSL & 1980' FEL Sec. 19, T-17-S, R-31-E

1980' FSL & 1980' FEL Sec. 19, T-17-S, R-31-E EDDY COUNTY, NEW MEXICO INJECTION WELL DIAGRAM



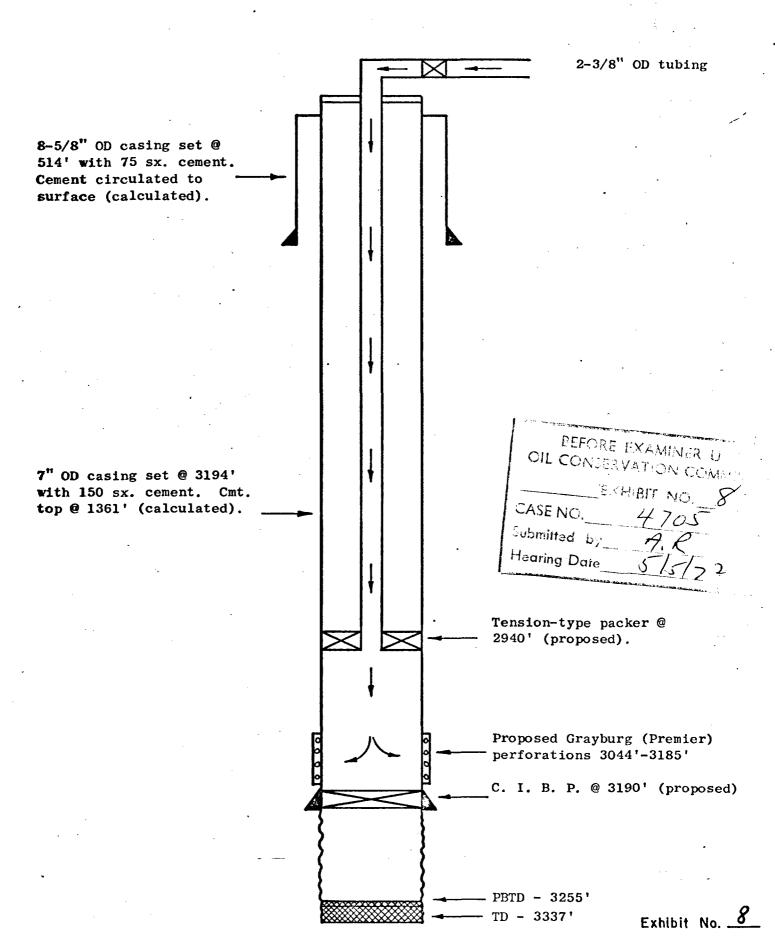
ATLANTIC RICHFIELD COMPANY FREN OIL COMPANY WELL NO. 2 660' FSL & 1980' FWL Sec. 19, T-17-S, R-31-E EDDY COUNTY, NEW MEXICO INJECTION WELL DIAGRAM



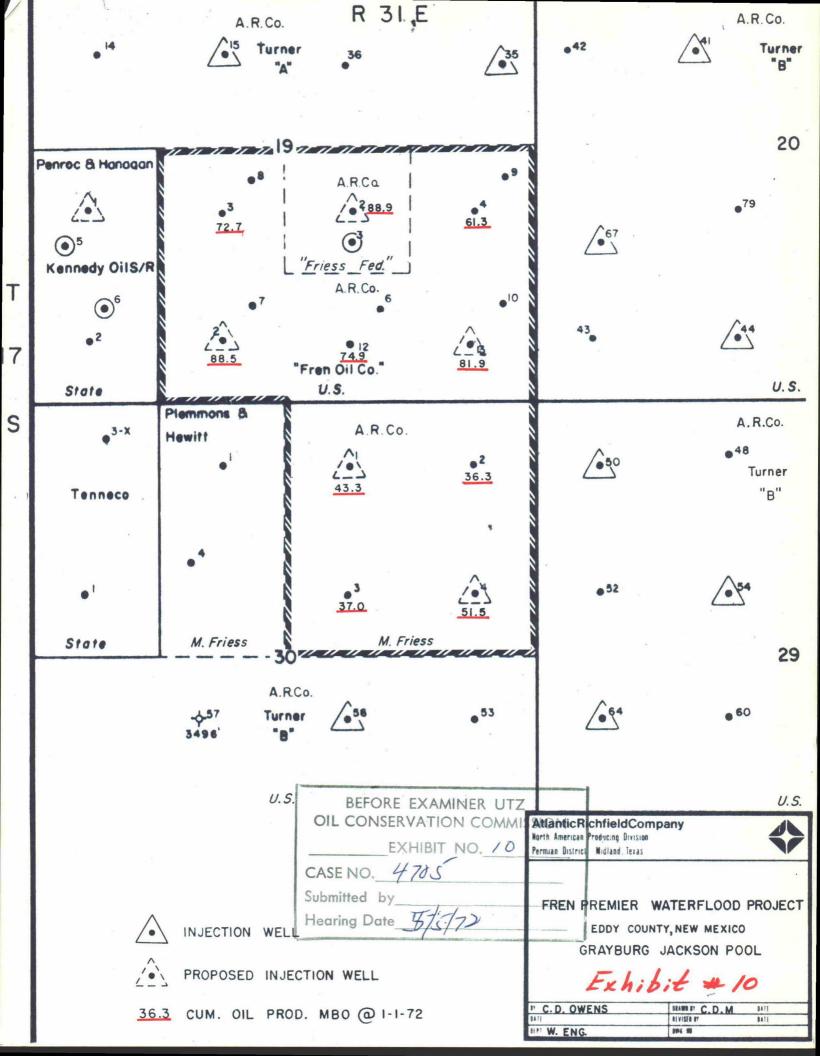
ATLANTIC RICHFIELD COMPANY FREN OIL COMPANY WELL NO. 13

660'FSL & 710'FEL Sec. 19, T-17-S, R-31-E

EDDY COUNTY, NEW MEXICO
INJECTION WELL DIAGRAM



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United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U Artesia, New Mexico 88210

March 28, 1972

Atlantic Richfield Company Post Office Box 1610 Midland, Texas 79701

Gentlemen:

Your letter of March 7, 1972 requests approval to operate a waterflood of the Premier zone of the Grayburg formation in T. 17 S., R. 31 E., N.M.P.M., Eddy County, New Mexico on that portion of oil and gas leases described as follows:

Las Cruces 031844 sec. 19: E½SE½, SW½SE½, E½SV½

Las Cruces 060409 sec. 19: NW\(\frac{1}{2}\)SE\(\frac{1}{2}\)

Las Cruces 065014 sec. 30: NE½

The flood pattern would be 80-acre 5-spot, which would be a continuation of the pattern of the waterfloods to the north, east, and south, and in lease line agreement with one operator on the west. You propose to convert to water injection the following wells:

Well Number and Lease		Location
1	Max Friess	NW-NE sec. 30
4	Max Friess	SE-NE sec. 30
2	Fren Oil Co.	SE-SW sec. 19
13	Fren Oil Co.	SE-SE sec. 19
2	Friess Fed.	NW-SE sec. 19

The plan for operating the above described waterflood project as proposed in the application is satisfactory to this office and hereby approved subject to approval by the New Mexico Oil Conservation Commission and the following:

	BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION	-
I	EXHIBIT NO //	
Į	CASE NO. 4705	1
l	Submitted by A.R.	1
	Hearing Date 5/5/72	1
	5.0/72	

Exhibit # 11

- 1. This project will be operated in compliance with the New Mexico Oil Conservation Commission regulations governing waterflood operations.
- 2. Duplicate copies of a monthly progress report (N.M.O.C.C. form C-120 acceptable) are to be submitted to this office showing the volume of water injected and average pressure for the injection wells and production for the producing wells in the project area.
- 3. This approval does not preclude the necessity for further approval when the project is expanded to include other wells and leases or the necessity to submit the usual notices and reports on wells involved.

Sincerely yours,

District Engineer

N.M.O.C.C., Santa Fe Roswell

File

Accounts