APPLICATION OF TIDEWATER OIL COMPANY FOR APPROVAL OF A WATER FLOOD PROJECT IN THE EAST EUMONT UNIT AREA, EUMONT POOL, LEA COUNTY, NEW MEXICO

No. 3234

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APPLICATION

Comes now Tidewater Oil Company by its Attorneys and seeks authority to institute a Water Flood Project in the East Eumont Unit Area, Eumont Pool, Lea County, New Mexico and in support of its Application states:

By a separate Application Applicant is seeking approval of the East Eumont Unit Agreement covering the following lands in Lea County, New Mexico:

> Township 18 South, Range 37 East, N.M.P.M., Lea County, New Mexico

S/2 NE/4, SE/4 NW/4, SE/4, S/2 SW/4 and NE/4 SW/4 Section 33:

SW/4 SW/4 Section 34:

Township 19 South, Range 37 East, N.M.P.M., Lea County, New Mexico

Section 3: Section 4:

Lot 4, S/2 NW/4 and SW/4 Lots 1, 2, 3 and 4, S/2 NW/4, S/2 NE/4 and E/2 SE/4

N/2 NE/4Section 9:

NW/4, SW/4, and NW/4 NE/4

Section 10: Section 15: W/2

Section 16: E/2 E/2 and SW/4 SE/4

E/2 E/2 Section 21:

Section 22:

W/2 and S/2 SE/4 SW/4 NW/4, NW/4 SW/4, Section 26:

S/2 SW/4, and SW/4 SE/4 N/2, SE/4, and E/2 SW/4 E/2 NE/4 Section 27:

Section 28:

NE/4 NW/4, NW/4 NE/4, Section 34:

and E/2 NE/4

Section 35:

E/2, NW/4 and E/2 SW/4 SW/4 NW/4, NW/4 SW/4 and S/2 SW/4 Section 36:

DOCKET MAILED

Date 3/24 63

Township 20 South, Range 37 East, N.M.P.M., Lea County, New Mexico

Section 1:

Lots 2, 3 and 4, S/2 NW/4, SW/4 NE/4, SW/4 and W/2 SE/4 Lots 1, 2 and 3, SE/4 NW/4, S/2 NE/4, SE/4, and SE/4 SW/4 NE/4 NE/4 Section 2:

Section 11:

NW/4 NW/4, E/2 NW/4 and W/2 NE/4Section 12:

- 2. Applicant proposes to conduct a Water Flood Project in the proposed East Eumont Unit Area by the injection of water into sixty-nine wells located within the Unit Area. The location of each injection well is shown on the plat attached hereto entitled Unit Well Designation and is described on the Table of Proposed Injection Wells also attached to this Application.
- The initial injection in the proposed unit area will be through four injection wells designated as Unit Wells Numbers 98,101,103 and 107 on the plat and table attached to this Application. The area in which this initial injection program will be conducted is shown colored in green as the Pilot Flood Area on the plat attached to this Application.
- 4. The Plat attached to this Application shows all Wells within a radius of two miles from each of the proposed injection wells and the formation from which those wells are producing or have produced; this plat also indicates the Lessees within the two mile radius.
- 5. Submitted with this Application are logs of each of the proposed injection wells to the extent that such logs are available.
- 6. Attached to this Application is a diagrammatic sketch of a typical single zone, dual zone and triple zone injection well for the proposed Water Flood Project. data concerning the proposed injection wells is shown on the

Application is a plat showing the proposed water distribution system to be employed when the project is placed in full operation. Each of the three plants shown on this plat will have as its source a separate water supply well; each plant will have a capacity estimated between 8,000 and 10,000 barrels per day. Injection into each injection well is estimated at the rate of 350 barrels per day at a pressure of twenty-two hundred pounds per square inch.

- 7. On March 5, 1965 Application was made by Tidewater Oil Company to the Office of the State Engineer in Roswell, New Mexico for permission to drill a San Andres Water Supply Well in the Southeast quarter Southeast quarter of Section 35, Township 19 South, Range 37 East, within the proposed Filot Flood Area.
- 8. The Wells in the proposed Water Flood Project have reached an advanced state of depletion and are to be regarded as "stripper" wells.
- 9. Approval of the subject Application will permit the recovery of oil that would not be recovered by primary means of production and will thereby prevent waste. Operation of the proposed project as a unit will adequately protect correlative rights.

Wherefore, Applicant requests that this Application be set for hearing before the Commission or one of its Examiners and that the Commission enter its order approving the proposed Water Flood Project.

SETH, MONTGOMERY, FEDERICI & ANDREWS

Post Office Box 2307

Santa Fe, New Mexico Attorneys for Applicant Tidewater

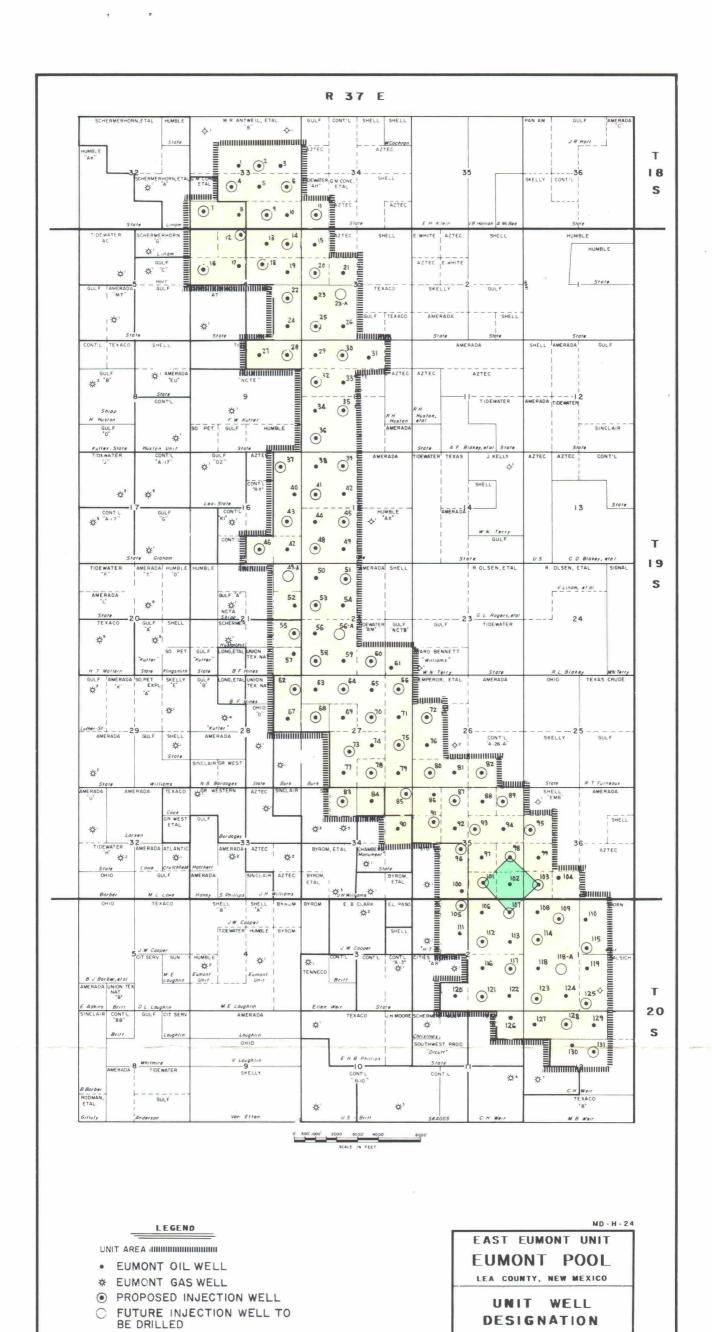
Sichard S. Morris

Oil Company

CERTIFICATE OF MAILING

I hereby certify that on this 17th day of March, 1965 I mailed a copy of this Application with Exhibits attached thereto to the State Engineer Office, Capitol Building, Santa Fe, New Mexico as required by Rule 701 of the Rules and Regulations of the New Mexico Oil Conservation Commission.

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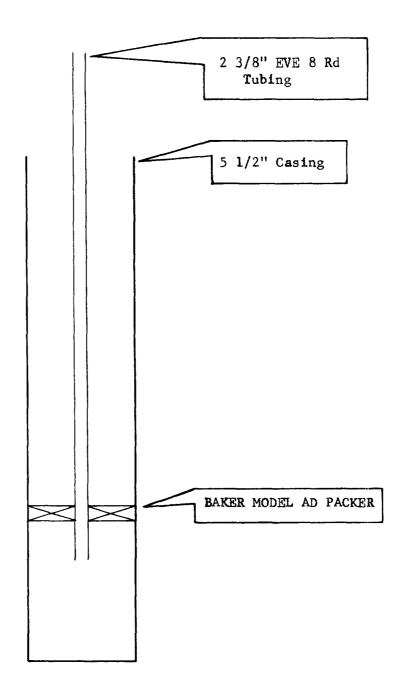


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EAST EUMONT UNIT

DIAGRAMMATIC SKETCH OF

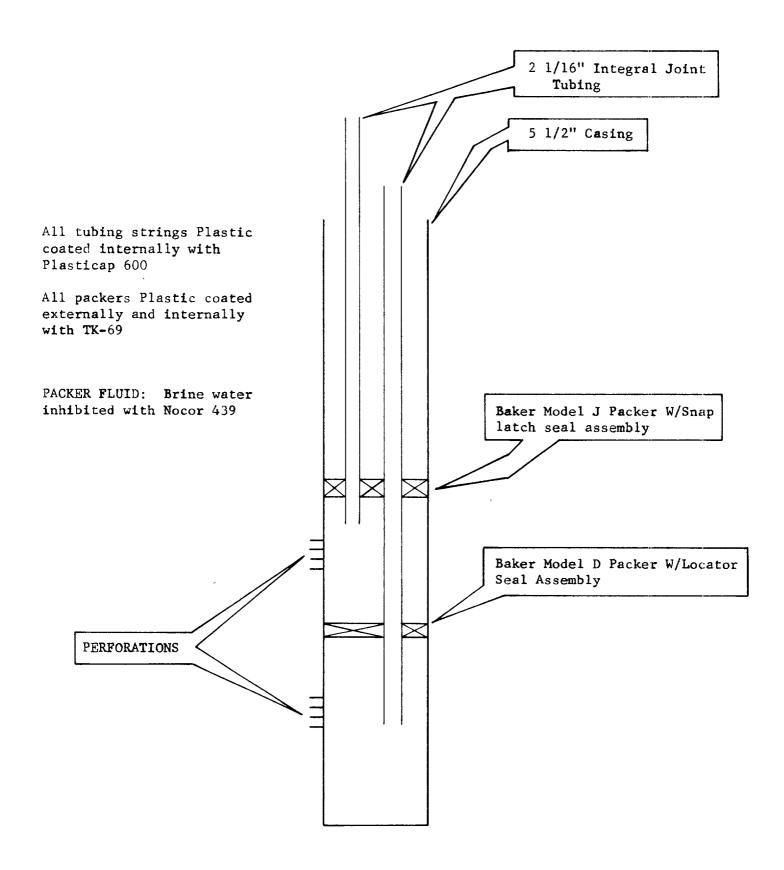
SINGLE ZONE INJECTION WELL



Tubing plastic coated internally with Plasticap 600 Packer plastic coated internally and externally with TK-69 Packer fluid: Brine water inhibited with Nocor 439

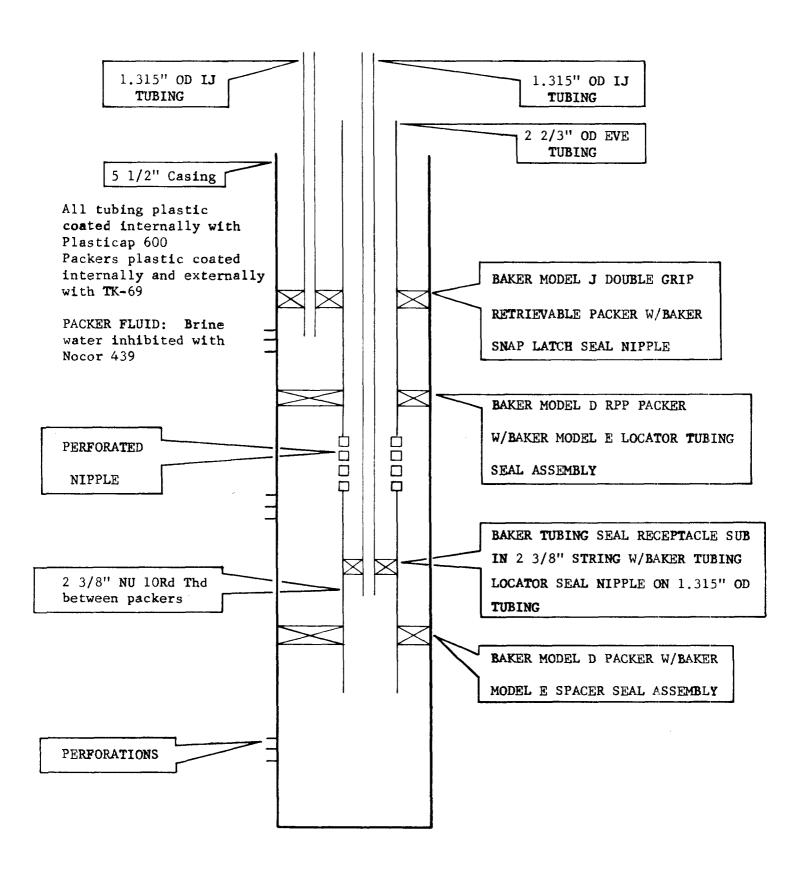
EAST EUMONT UNIT

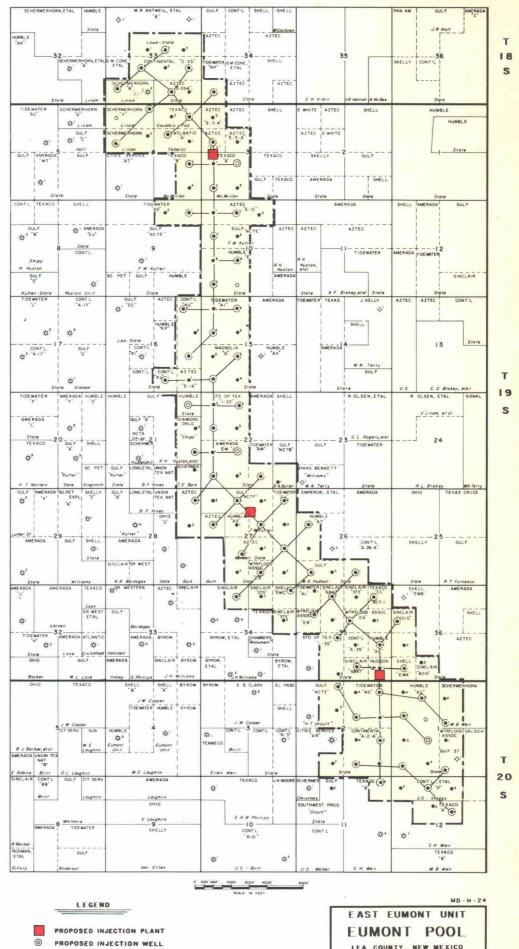
DIAGRAMMATIC SKETCH OF DUAL ZONE INJECTION WELL



EAST EUMONT UNIT

DIAGRAMMATIC SKETCH OF TRIPLE ZONE INJECTION WELL





PROPOSED PRODUCING WELL PROPOSED CONVERSION

TO INJECTION WELL - UNIT AREA

LEA COUNTY, NEW MEXICO

PROPOSED WATER DISTRIBUTION SYSTEM