



SHELL OIL COMPANY	MIDLAND AREA MIDLAND DIVISION	PRODUCTION DEPARTMENT
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WATERFLOOD SYSTEM NO. 7
SCARBOROUGH & JALMAT FIELDS

Enclosure 11

By <u>R.I.T. / H.O.C.</u>	Date <u>2-19-64</u>
Scale <u>1" = 1000'</u>	Drwg. No. <u> </u>

SCARBOROUGH WATER WELL NO. 7-1
LINEBERY LEASE
SCARBOROUGH FIELD
165' S OF LINEBERY 13

Elev: Approx. 2957

Pipe to gravel pack 7" csg

13 3/8 @ 125'
Gravel packed w/3 to 5
yds. of pea gravel

Santa Rosa
370'

Slotted Casing

7" @ 550'
Gravel packed w/12 to 15
yds. of pea gravel

INJECTION WATER ANALYSIS

Location - Scarborough Field, Winkler County, Texas

Formation - Santa Rosa

Depth - 500 feet

Physical Characteristics

Specific Gravity - 1.0004

pH - 7.42

Resistivity - 7.30 ohm-meters (at 80°F.)

Suspended solid - 2.40 ppm (hydrated iron oxide)

Dissolved Solids (ppm)

Iron - 0

Calcium - 84

Magnesium - 40

Sodium - 137

Bicarbonate - 229

Sulfate - 294

Chloride - 130

Sulfide - 0

Total - 914

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3026
Order No. R-2695

APPLICATION OF SHELL OIL COMPANY
FOR A WATERFLOOD PROJECT, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on April 8, 1964, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 28th day of April, 1964, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Shell Oil Company, seeks authority to institute a waterflood project in the Jalmat Pool by the injection of water into the Yates formation through four wells in Sections 32 and 33, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the wells in the proposed project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(4) That the proposed waterflood project is in the interest of conservation and should result in recovery of otherwise unrecoverable oil, thereby preventing waste.

(5) That the subject application should be approved and

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the project should be governed by the provisions of Rule 701 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Shell Oil Company, is hereby authorized to institute a waterflood project in the Jalmat Pool by the injection of water into the Yates formation through the following-described four wells in Township 26 South, Range 37 East, NMPM, Lea County, New Mexico:

Section 32:

Pubco State Well No. 2 located 1984 feet from the South line and 660 feet from the East line.

Section 33:

Wills Federal Well No. 3 located 660 feet from the North line and 660 feet from the West line.

Wills Federal Well No. 7 located 660 feet from the North line and 1980 feet from the West line.

Wills Federal Well No. 6 located 990 feet from the North line and 2310 feet from the East line.

(2) That the subject waterflood project shall be governed by the provisions of Rule 701 of the Commission Rules and Regulations, including the allowable provisions thereof, and including the provisions with respect to expansion of the waterflood project.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Jack M Campbell

JACK M. CAMPBELL, Chairman

E. S. Walker

E. S. WALKER, Member

A. L. Porter, Jr.

A. L. PORTER, Jr., Member & Secretary

