



NOV 24 1969

CONTINENTAL OIL COMPANY

P. O. Box 460

HOBBS, NEW MEXICO 88240

PRODUCTION DEPARTMENT

HOBBS DIVISION

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November 21, 1969

Cope 4283

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

Attention Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Subject: Application for Approval of East E-K
Unit Agreement and for Authority to Install
Waterflood in Said Unit

Forwarded herewith is our application for approval of the
East E-K Unit Agreement and for authority to install a waterflood.
You will note that the application requests administrative procedures
for addition or substitution of the injection wells.

Please set this matter for hearing on your December 17,
1969 Examiner Docket.

Yours very truly,

L. P. Thompson

VTL-JS

CC: RLA JJB JWK

Enc.

DOCKET MAILED

Date 12-5-69

BEFORE THE OIL CONSERVATION COMMISSION
OF THE
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF
CONTINENTAL OIL COMPANY FOR APPROVAL
OF THE EAST E-K UNIT AGREEMENT EMBRACING
400 ACRES, MORE OR LESS, LOCATED IN
SECTION 22, TOWNSHIP 18 SOUTH, RANGE 34
EAST, NMPM, LEA COUNTY, NEW MEXICO, AND FOR
PERMISSION TO INSTALL AND OPERATE A WATERFLOOD
WITHIN THE BOUNDARIES OF SAID UNIT AREA

Case 4283

A P P L I C A T I O N

Comes now Applicant, Continental Oil Company, and respectfully
requests approval of the East E-K Unit Agreement embracing 400.00 acres,
more or less, described as:

NW/4, E/2 SW/4 and SE/4 Section 22, Township 18 South,
Range 34 East, Lea County, New Mexico

and for permission to install and operate a waterflood within said unit,
and in support thereof, Applicant would show:

1. That the East E-K Unit Agreement is attached
hereto and marked Exhibit 1.
2. That approval of the Unit Agreement by the Com-
missioner of Public Lands was given July 9, 1969.
3. That the attached location plat marked Exhibit 2
shows the East E-K Unit, the proposed injection
wells and surrounding area..
4. That engineering investigations indicate that water
flooding the East E-K Unit Area will be physically
and economically feasible.
5. That the formation to be unitized and waterflooded is
the Upper Queen formation which is specifically
indicated on the radioactivity log of the Continental
Oil Company State X-22 No. 1 well attached hereto
and marked Exhibit 3.
6. That the proposed injection wells are or will be
completed in such a manner that injected water

will be confined to the unitized formation. The present and proposed status of all proposed injection wells is shown on the schematic diagrams attached hereto and marked Exhibits 4 and 5.

7. That applicant proposes to inject a total of approximately 1,000 barrels of water per day into the two proposed injection wells on a modified peripheral pattern. Said water will be obtained from the Ogallala formation from an outside supplier but will be supplemented by produced water from the immediate area.
8. That the said waterflood will be installed and operated in conformance with Rule 701E.
9. That the Unit Area may be enlarged, which may necessitate a change of injection pattern, and that administrative procedures for changing injection wells should be provided.
10. That the proposed unitization and secondary recovery will result in the recovery of hydrocarbons which would not be recovered by primary methods and is therefore in the interest of conservation and the prevention of waste.

Wherefore, Applicant respectfully requests that this matter be set for hearing before the Commission's duly qualified Examiner and that upon hearing an order be entered approving the East E-K Unit Agreement, and granting permission to install and operate a waterflood within the Unit Area as described hereinabove.

Respectfully Submitted,

L. P. Thompson
Division Manager