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June 13, 1978

Oil Conservation Division (3)
Department of Energy & Minerals
State of New Mexico
P.O. Box 2038
Santa Fe, New Mexico 87501

Attention Mr. J. D. Ramey, Director

Gentlemen:

Administrative approval is requested to authorize water injection into the Warren Unit No. 28 in the Warren Unit McKee Waterflood. The McKee Waterflood Project in the Warren Unit was authorized by Order No. R-5632 issued January 24, 1978 by the Commission. The original order designated Warren Unit Well Nos. 22, 23, 25, and 27 as injectors.

Subsequent analysis and consideration of pressure buildup data from Warren Unit Nos. 27, 28, and SEMU McKee No. 62 have indicated the presence of a permeability barrier running North-South between SEMU McKee No. 62 and Warren Unit Nos. 27 and 28, as indicated on the attached plat. Because of the barrier indicated to the West of Warren Unit No. 27, injection into this well would not contribute to the sweep pattern around the offset producer, SEMU McKee No. 13, but would probably sweep oil northward along the parallel barriers indicated on the plat, past No. 28. We believe that a more efficient sweep of oil can be accomplished by injecting in No. 28 in a line-drive fashion until No. 27 has flooded out, at which time it may be converted to injection.

Our application for approval of this waterflood project included a request for the establishment of an administrative procedure for adding and substituting injection wells. This change in proposed injectors will prevent waste and improve the sweep of oil along the East side of the project. Well No. 28 is an interior well in our Warren Unit and is not offset by any other operator.

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Attached is a plat showing the changed injection pattern and the indicated permeability barrier, a log section of the proposed injector, Warren Unit No. 28, and a diagrammatic sketch of the proposed injection well No. 28 including pertinent data as requested by Rule 701-B. We will appreciate your consideration of this request at your earliest convenience, so that we may proceed with the initiation of this waterflood project.

Respectfully submitted,

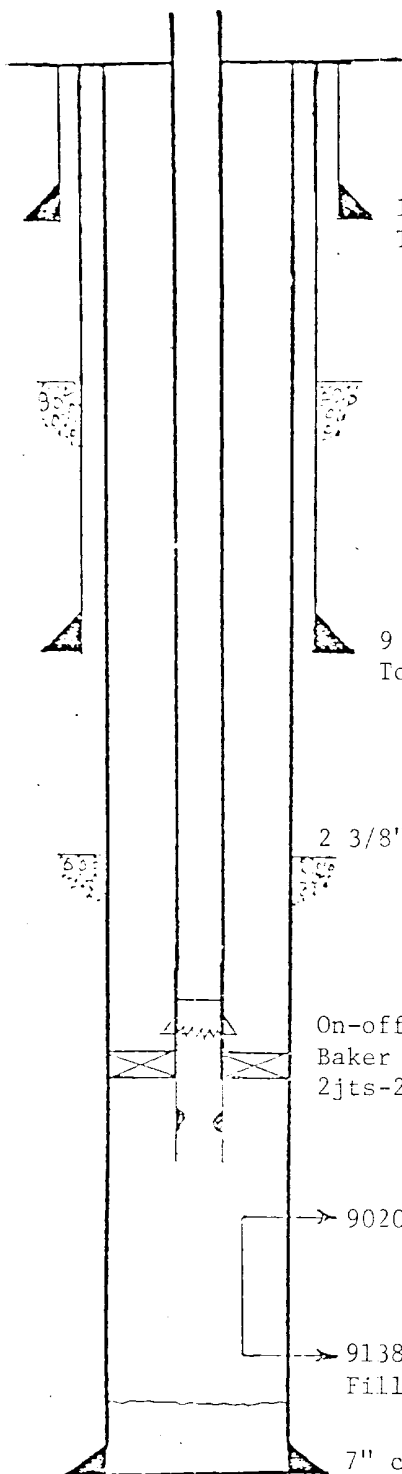
CONTINENTAL OIL COMPANY

HAI/jj

Enc

cc:

J. W. Kellahin, Santa Fe



13 3/8" casing set at 265' w/300 sx. of common cement.
Top of cement is at surface.

9 5/8" casing set at 2998' w/825 sx. of mixed cement.
Top of cement is at 1100' (temp. survey).

2 3/8" tubing set at 8920'.

On-off sealing connector.

Baker Lok-set Packer set at 8920'

2jts-2 3/8" tailpipe, 1.78" Model "R" nipple, one jt. below pkr.

→ 9020' Top of perfs.

McKee Perfs.
9020'-22', 27'-29', 43'-45', 48'-54', 63'-66',
72'-78', 88'-94', 9128'-38', w/2JSPF.

→ 9138' Bottom of perfs.
Fill to 9150'

7" casing set at 9217' w/550 sx. mixed cement. Top of cement
is at 5950' (temp. survey). Total depth 9218'.

Warren McKee No. 28
Warren McKee Simpson Pool
1980' FSL & 2310' FEL of Sec. 20, T20S, R38E
Elevation - 3566' K.B.
6/8/78 - BEE