

Mobil

Oil Conservation Division

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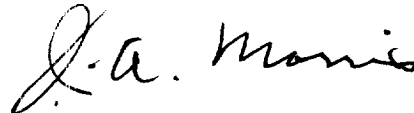
February 25, 1983

These mechanical protective measures are complemented by existing geological and reservoir conditions. The geological and reservoir conditions permit the injection of large volumes of water at low pump in pressures which reduce chances of channeling or pressuring up another sand. The geology of the Devonian is carbonate rock with 8% porosity and 40 MD permeability. The Devonian reservoir is a highly prolific water drive. In summary, the well's completion, geology, and reservoir conditions grant adequate protection of the Ogallala aquifer.

The correlative rights of the mineral owner are not an issue because there are no known commercial oil or gas reserves nor any fresh water sands in this portion of the Crossroads Field below 4900'. This fact is supported by the current perimeter of temporarily abandoned or plugged wells and the list of active production wells cited in the State production schedule. However, interest-holders with correlative rights were notified in accordance with Statewide Rule 701.

In conclusion, I have examined the available geological and engineering data and do not find any evidence of open faults or any other hydrological connection between the disposal zone and any underground source of drinking water.

Yours truly,



SDMarino/ec
Attachments

J.A. Morris
Regulatory Engineering Supervisor

cc: NMOCD District #1

RECEIVED

MAR 2 1983

O.C.D.
HOBBS OFFICE