

Case 416.
E.F.

Artesia, N. Mex. - Oct. 14, 1952

New Mexico Oil Conservation Commission
Santa Fe, N. Mex.

Gentlemen:

The undersigned, Olen F. Featherstone, hereby makes application to the New Mexico Oil Conservation Commission for authority to establish a water flooding project in the N $\frac{1}{2}$ of Sec. 19, T17S, R28E, Eddy County, New Mexico.

Production on the property is from the Yates-Seven Rivers pay at an approximate depth of 575'. The thickness of the sand varies from 3' to 4', and it is a fine grained uniform sand that is consistent over the whole lease. The wells come in with a good flush production but decline very rapidly. The bottom hole pressure is very low and there is not sufficient reservoir energy to produce oil in paying quantities. For this reason some form of secondary recovery is necessary to obtain the oil in place. We have chosen to try water flooding and a report is attached showing that this lease has a good chance of being water flooded with success. The report was made by Buckles & Hostetler, Oil Production Consultants, of Monahans, Texas.

A map is attached showing the existing oil wells on the property and also the proposed additional production wells and the proposed water input wells.

There is water on this property available for water flooding and a water well has been drilled on the property which will produce all the water needed for the project.

This operator desires establishment of a blanket allowable for the 320 acres involved of 8 times the current allowable.

Written statements giving consent to this project are attached which came from a majority of the operators within one-half mile of the property.

While no property line input water wells are shown on the map it is the plan of this operator, if the project is successful, to either farmout or join with the offset operators in the developing of the adjoining acreage so that line wells will be necessary.

The locations of the 21 proposed water input wells to be drilled on this property which is the N $\frac{1}{2}$ of Sec. 19, T17S, R28E, Eddy County are as follows:

- IP #1 620' from North line and 650' from West line.
- IP #2 660' " " " " 1340' " " " .
- IP #3 640' " " " " 2070' " " " .
- IP #4 660' " " " " 2670' " " " .
- IP #5 660' " " " " 1975' " East " .
- IP #6 660' " " " " 1275' " " " .
- IP #7 650' " " " " 650' " " " .
- IP #8 1335' " " " " 660' " " " .
- IP #9 1340' " " " " 1275' " " " .
- IP #10 1340' " " " " 1980' " " " .
- IP #11 1340' " " " " 2670' " " " .
- IP #12 1340' " " " " 2030' " West " .
- IP #13 1340' " " " " 1360' " " " .
- IP #14 1340' " " " " 670' " " " .
- IP #15 2060' " " " " 600' " " " .

IP #16	2015'	from North line	and	1340'	from West line.
IP #17	1970'	"	"	"	"
IP #18	1980'	"	"	"	"
IP #19	1960'	"	"	"	1975' East
IP #20	1975'	"	"	"	1280'
IP #21	1970'	"	"	"	650'

The locations of the additional oil wells to be drilled are as shown on the plat. These are all on orthodox locations.

We respectfully submit this application for your approval and we will appreciate your consideration of this project.

Yours very truly,


Olen F. Featherstone