



# SKELLY OIL COMPANY

P.O. Box 730, Hobbs, New Mexico  
December 7, 1967

Re: Application for Waterflood Expansion  
Skelly Unit  
Grayburg Jackson Pool  
Eddy County, New Mexico

New Mexico Oil Conservation Commission  
State Land Office Building  
P.O. Box 2088  
Santa Fe, New Mexico

Attention: Secretary-Director

Gentlemen:

Skelly Oil Company respectfully requests administrative approval to convert its Skelly Unit Well No. 98, located in Unit "J" of Section 28, T-17-S, R-31-E, Grayburg Jackson Pool, Eddy County, New Mexico, to a water injection well. The Skelly Unit waterflood project was authorized by Order No. R-2900, May 4, 1965 and superseded by Order No. R-3214, April 11, 1967.

The subject waterflood project is governed by the provisions of Rule 701, 702, and 703 of the Commission Rules and Regulations; PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the Grayburg-Jackson Skelly Unit waterflood project to include additional wells, within said unit area, on water injection as may be necessary to complete an efficient waterflood pattern.

Skelly Unit No. 98 produced from the Grayburg-San Andres Formation at a depth of 3425' to 3810' until shut-in in 1962 due to excessive water production. Skelly Unit No. 98 has remained in a shut-in status since that time. The well is scheduled to be a water injection well when the waterflood is expanded into Sections 21 and 28, T-17-S, R-31-E. It is proposed to open additional zones, which are productive up-structure, and recomplete the well (for injection of produced water) in the overall interval 3358'-3810' within the Grayburg-San Andres Formation.

There is approximately 110 barrels per day of produced Grayburg-San Andres water being gathered at the tank battery in the NE/4 of Section 28. In an effort to dispose of the produced water it is requested that Well No. 98 be approved for conversion to injection at this time. The initial anticipated volume of 100 to 200 barrels per day will be injected down coated tubing below a packer into the Grayburg-San Andres reservoir between 3358' and 3810'. The water will be transported from the tank battery to the proposed injection well by means of a temporary line. A skid mounted pump will be utilized for injection until the waterflood is fully expanded into Sections 21 and 28 and additional injection facilities are constructed. The maximum anticipated injection pressure will be 1800 psi.

Skelly Unit  
New Mexico Oil Conservation Commission  
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Attached is a map showing all wells and lessees within a two mile radius of the proposed injection well and the formation from which said wells are producing or have produced. Also attached is a copy of the log section and a diagrammatic sketch of the proposed injection well.

Skelly Oil Company is the only operator offsetting the proposed injection well. The State Engineers Office has been notified by a copy of this application complete with attachments this date.

Very truly yours,  
SKELLY OIL COMPANY



V. E. Fletcher  
District Superintendent

LRH/bh  
ATTACHMENTS

Copies to: State Engineers Office  
Santa Fe, New Mexico

G. W. Selinger  
Skelly Oil Company  
Tulsa, Oklahoma

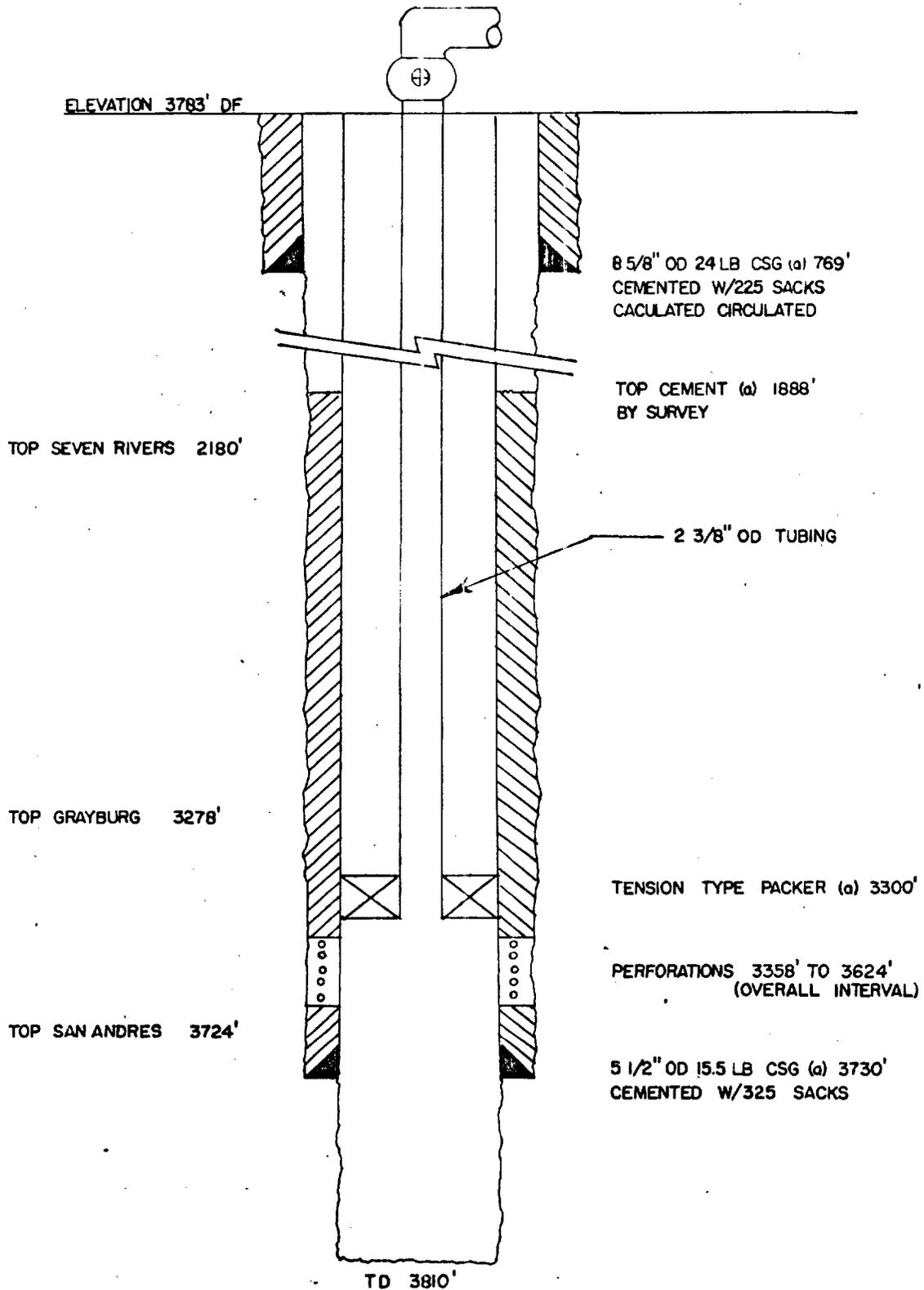
# SKELLY OIL COMPANY

## SKELLY UNIT No 98

1980' FSL & 1980' FEL

Section 28-T17S-R31E

Eddy County, New Mexico



*Jim Kaptein STCC*

*No objection to this application. According to our records surface pipe is set with only 100 SX cement. Looks more like S&D than WFX*



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Eddy County, New Mexico

MAIN OFFICE 011

New Mexico Oil Conservation Commission RECEIVED  
State Land Office Building  
P.O. Box 2088  
Santa Fe, New Mexico

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MAIN OFFICE 000

DEC 14 1967

Attention: Secretary-Director

D. S. C.  
ARTESIA, OFFICE

'67 DEC 8 AM 8 15

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LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE