

**Morris R. Antweil**  
OIL OPERATOR  
P. O. Box 2010  
HOBBS, NEW MEXICO 88240

WFK-300

10/15/68

October 15, 1968

Re: Application for Approval  
of an Additional Injection  
Well in Malaga-Delaware  
Sand Waterflood Project  
under Order No. R-3245

New Mexico Oil Conservation Commission  
State Land Office Building  
Santa Fe, New Mexico 87501

Attention: Mr. D. S. Nutter,  
Chief Engineer

Gentlemen:

Morris R. Antweil, Unit Operator of the Malaga Unit, requests approval to expand the Malaga-Delaware Sand Waterflood Project by the conversion of Malaga Unit Well 13-2 to water injection. Commission Order No. R-3245, authorizing and designating the Malaga-Delaware Sand Waterflood Project, provides for the expansion of the project to include additional injection wells with the approval of the Secretary-Director of the Commission and without the showing of well response as required by Rule 701 E-5.

It is proposed to convert Unit Well 13-2, located in Unit K, Section 7-24S-28E, Eddy County, New Mexico, to water injection. The attached map shows the location of the proposed injection well in relation to the existing injection wells. The proposed injection well is a continuation of the approved waterflood pattern.

The attached diagramatic sketch of Well 13-2 shows the casing, cementing, completion, tubing and packer program. It is proposed to inject water down the tubing, under a packer, into the open hole interval of the Delaware sand from 2746 to 2752 feet. A gamma-ray neutron survey of Well 13-2 is enclosed.

Respectfully submitted,

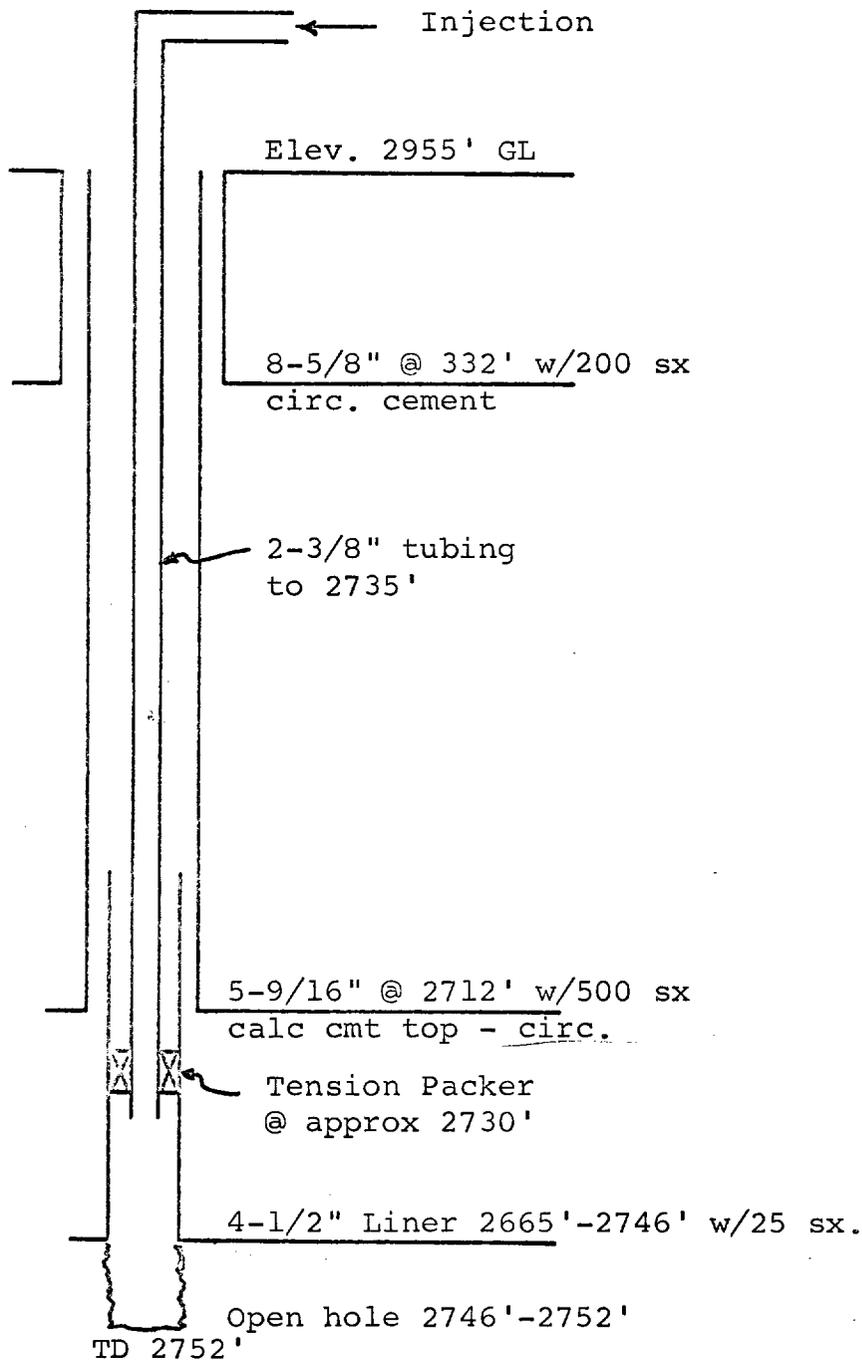
MORRIS R. ANTWEIL  
UNIT OPERATOR-MALAGA UNIT



R. M. Williams

RMW/rs  
Enclosures





DIAGRAMATIC SKETCH  
 PROPOSED INJECTION WELL 13-2  
 MALAGA UNIT  
 NW/4 SW/4 Sec. 7-24S-29E  
 Eddy County, New Mexico

Morris R. Antweil  
OIL OPERATOR  
P. O. Box 2010  
HOBBS, NEW MEXICO 88240

No objection to  
this application  
RLS 11-4-68

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68 OCT 15 11:00 AM

RECEIVED

OCT 29 1968

O. C. C.  
ARTERIAL OFFICE

RALPH L. GRAY  
PETROLEUM ENGINEERING - PRODUCTION  
CONSULTANT  
P. O. BOX 198  
ARTESIA, NEW MEXICO

October 25, 1968

RECEIVED

OCT 30 1968

D. E. C.  
ARTESIA OFFICE

New Mexico Oil Conservation Commission (3)  
Box #2088  
Santa Fe, New Mexico

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

Dear Sir:

On October 27, 1965, Windfohr Oil Company (previously designated Nash, Windfohr & Brown) was given approval by your Order #R-2990 to conduct a water injection project on their Jackson "B" lease in the Grayburg Jackson Pool. The Premier zone of the Grayburg formation is being flooded.

We hereby request administrative approval to convert the Jackson "B" well #25 from a producing to an injection well. We are attaching an ownership map of the area, a larger scale lease map showing location and present status of Windfohr wells, and Jackson "B" well #25, the well proposed for conversion. Well #25 is located in the SE/4 SE/4 of Section 24, Township 17 South, Range 30 East, Eddy County, New Mexico.

Jackson "B" #25 is producing only two barrels of oil per day, and since its completion in September of 1963, the well has produced only 6,438 barrels of oil. This well is located on the injection pattern being employed in the area, and we believe well #25 will be more useful as an injection well than as a producer. As shown by the attached map, the use of well #25 as a water injection well will create a 3-way push on well #28 which should result in the recovery of additional oil.

Although well #25 is a "line" well, we do not believe that a compensating injection program will be put into operation at this time, but we are willing to proceed without such a line agreement.

Copies of this application are being furnished Kennedy Oil Company and Tenneco, who are the offset operators. Your approval to use well #25 for a water injection well by administration order will be appreciated.

Yours very truly,

*Ralph L. Gray*  
REGISTERED PETROLEUM ENGINEER.

cc: Kennedy Oil Company  
Tenneco Oil Company  
Mr. John Rush Vann  
Mr. E. R. McPhaul

No objection to this application, however our records show perforations to be 3129 to 3178 at present, talked to Ralph Gray. To be squeezed and reperforated