

Morris R. Antweil

OIL OPERATOR

P. O. BOX ~~XXXX~~ 2010

HOBBS, NEW MEXICO 88240

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Case 3587

May 8, 1967

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

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

Re: Application for Approval of Unitization  
and Waterflood Project in Malaga Field,  
Eddy County, New Mexico.

Gentlemen:

Morris R. Antweil, the designated Unit Operator of the proposed Malaga Unit, requests a hearing for the consideration of the approval of the proposed Malaga Unit and the approval of the initiation of a waterflood project in such Unit.

The proposed Malaga Unit encompasses 838.24 acres of federal and fee land located in Sections 12 and 13, T-24S, R-28E, and Sections 7 and 18, T-24S, R-29E, in Eddy County, New Mexico. A copy of the Unit Agreement and Unit Operating Agreement and an amendment to that agreement is enclosed. Ratifications by the working interest owners and royalty interest owners sufficient to qualify all tracts, except 1 and 3 (80 acres), have been obtained. It is proposed to proceed with the unitization without the participation of these two tracts.

The Malaga Unit proposes to initiate a waterflood project injecting water into the Delaware Sand formation of the Malaga Pool at a depth of approximately 2700 feet in sufficient quantities and under sufficient pressure to stimulate the secondary recovery of oil from this primarily depleted reservoir. Permission is requested to inject water into seven currently producing wells located in Sections 12 and 13, T-24S, R-28E and Section 18, T-24S, R-29E, Eddy County, New Mexico. It is anticipated that 200 barrels of water per day will be injected into each injection well. Water for

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injection purposes will be obtained from the shallow water sands underlying the Unit area. A water lease authorizing withdrawal from these sands, contained in the Carlsbad Underground Water Basin, has been obtained and a water supply well has been drilled.

Enclosed are the following exhibits as specified in Rule 701:

- a. A plat showing the location of the proposed injection wells and the location of other wells within a radius of two miles.
- b. Logs of the proposed injection wells. (Logs not available on Wells 11-1 and 11-3).
- c. A diagrammatic sketch of each of the proposed injection wells showing the casing, cementing, completion, tubing and packer program.
- d. A certified mail receipt as evidence of the transmittal of a copy of this application to the State Engineer Office, Capitol Building, Santa Fe, New Mexico.

The request for scheduling of this application for hearing is respectfully submitted.

Very truly yours,



R. M. Williams  
Morris R. Antweil  
Unit Operator  
Malaga Unit

RMW/rs  
Enclosures

CASE 3587: The Application of Morris R. Antweil for Approval of a Waterflood Project, Malaga Unit, Eddy County, New Mexico, May 24, 1967.

Morris R. Antweil, designated Unit Operator of the Malaga Unit, seeks authority for the Malaga Unit to institute a waterflood project by the injection of water into the Delaware Sand formation of the Malaga Field through seven injection wells located in Sections 12 and 13, T-24S, R-28E, and Section 18, T-24S, R-29E, Eddy County, New Mexico.

The "Plan of Waterflood Operations" for the Malaga Unit is attached. The plan sets forth the history of the Malaga Delaware Sand reservoir indicating that the solution gas drive reservoir energy has been depleted and the primary recovery is virtually complete. It is proposed to inject water into the Delaware Sand at a depth of approximately 2700 feet in sufficient quantities and under sufficient pressures to stimulate the secondary recovery of additional oil reserves from this reservoir. Water for injection purposes will be obtained from the shallow water sands underlying the Unit area. A water lease authorizing withdrawal from these sands, contained in the Carlsbad Underground Water Basin, has been obtained and a water supply well has been drilled. It is proposed to initiate injection into seven wells on a five-spot pattern in the southern portion of the Unit. Injection will be down tubing under a hookwall type packer. A diagrammatic sketch of the proposed injection wells showing the casing, cementing, completion, tubing and packer program was filed with the application. Injection volumes are anticipated to average 200 barrels of water per day per injection well.

The Malaga Unit requests authority to institute a waterflood project in the Malaga Field and approval to inject water into the following wells:

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. <u>2</u>
CASE NO. <u>3586</u>

Well 4-1 - Unit B, Sec. 13-24S-28E

Well 5-1 - Unit J, Sec. 13-24S-28E

Well 7-1 - Unit P, Sec. 13-24S-28E

Well 9-2 - Unit H, Sec. 13-24S-28E

Well 10-2 - Unit P, Sec. 12-24S-28E

Well 11-1 - Unit D, Sec. 18-24S-29E

Well 11-3 - Unit L, Sec. 18-24S-29E

*John H. ...*

It is anticipated that injection will begin as soon as the waterflood facilities can be installed after unitization of the Malaga Unit, which is expected to be made effective July 1, 1967.