

WFA - 378
Rev Sept 15

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF
SHENANDOAH OIL CORPORATION TO CONVERT
AN ADDITIONAL WELL TO WATER INJECTION
IN THE SHENANDOAH HINKLE "F" SHUGART
WATERFLOOD PROJECT IN THE SHUGART POOL,
EDDY COUNTY, NEW MEXICO.

APPLICATION FOR ADMINISTRATIVE APPROVAL
OF AN ADDITIONAL WATER INJECTION WELL

Comes now Applicant, Shenandoah Oil Corporation, and
hereby makes application for administrative approval of the con-
version of one additional well to water injection in the Shenandoah
Hinkle "F" Shugart Waterflood Project pursuant to Rule 701 E-5 of
the Rules and Regulations of the Commission and in support thereof
states:

1. That by Order No. R-4325 in Case No. 4726 the Com-
mission authorized the Applicant herein to institute a waterflood
project in the Shugart Pool by the injection of water into the
Grayburg-San Andres formations and designated the waterflood project
as the Shenandoah Hinkle "F" Shugart Waterflood Project.

2. That by Order No. R-4325 the Applicant was authorized
to inject water into the Grayburg-San Andres formations through its
Hinkle "F" Well located 1880 feet from the North line and 1980 feet
from the West line of Section 27, Township 18 South, Range 31 East,
N.M.P.M., and the Applicant's facilities have been completed and
Applicant contemplates injecting the first water into the Hinkle
"F" No. 1 Well on or about September 1, 1972.

3. That the conversion of an additional well to water injection is necessary for an efficient injection pattern and will insure the protection of correlative rights and will result in the increased ultimate recovery of oil and prevent waste.

4. That the Applicant desires to convert to a water injection well its Gulf No. 2 Well located 1650 feet from the North line and 330 feet from the East line of Section 28, Township 18 South, Range 31 East, N.M.P.M.

5. That the Applicant will inject 350 barrels of fresh to brackish water and produced water into the Grayburg-San Andres formations and that the injection well will be completed in the same manner as the other injection wells on the project.

6. In support of this application and in accordance with the provisions of Rule 701-B, Applicant hereby submits the following exhibits:

Exhibit A: Plat showing the location of Shenandoah's Gulf No. 2 Well relative to the other leases within a two-mile radius.

Exhibit B: Log of Shenandoah's Gulf No. 2 Well

Exhibit C: Diagramatic Sketch of the proposed injection well showing tops of cement, casing program, perforations and depths.

Exhibit D: Plat showing Shenandoah's field pattern of wells that have heretofore been converted to water injection, and also showing the proposed injection well.

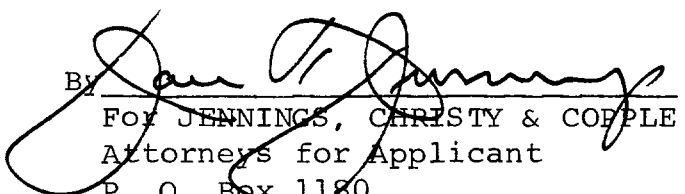
7. Simultaneous with the filing of this application, Applicant has mailed copies of the application to the offset operators, who are:

J. J. Travis, Box 5614, Midland, Texas 79701
AMOCO Production Corporation, Box 591, Tulsa, Oklahoma 74102
Gulf Oil Corporation, Box 670, Hobbs, New Mexico 88240
J. M. Welch, Box 496, Artesia, New Mexico 88210

WHEREFORE, Applicant requests that the Secretary-Director of the Commission approve the expansion of the Shenandoah Hinkle "F" Shugart Waterflood Project to include an additional injection well and that Applicant be authorized to inject water into the Grayburg-San Andres formations in its Gulf No. 2 Well located 1650 feet from the North line and 330 feet from the East line of Section 28, Township 18 South, Range 31 East, N.M.P.M.

Respectfully submitted,

SHENANDOAH OIL CORPORATION

By 

For JENNINGS, CHRISTY & COPPLE

Attorneys for Applicant

P. O. Box 1180

Roswell, New Mexico 88201



FLOOD NO. 4
SHUGART
EDDY COUNTY, NEW MEXICO

SCALE: 1" = 4,000'

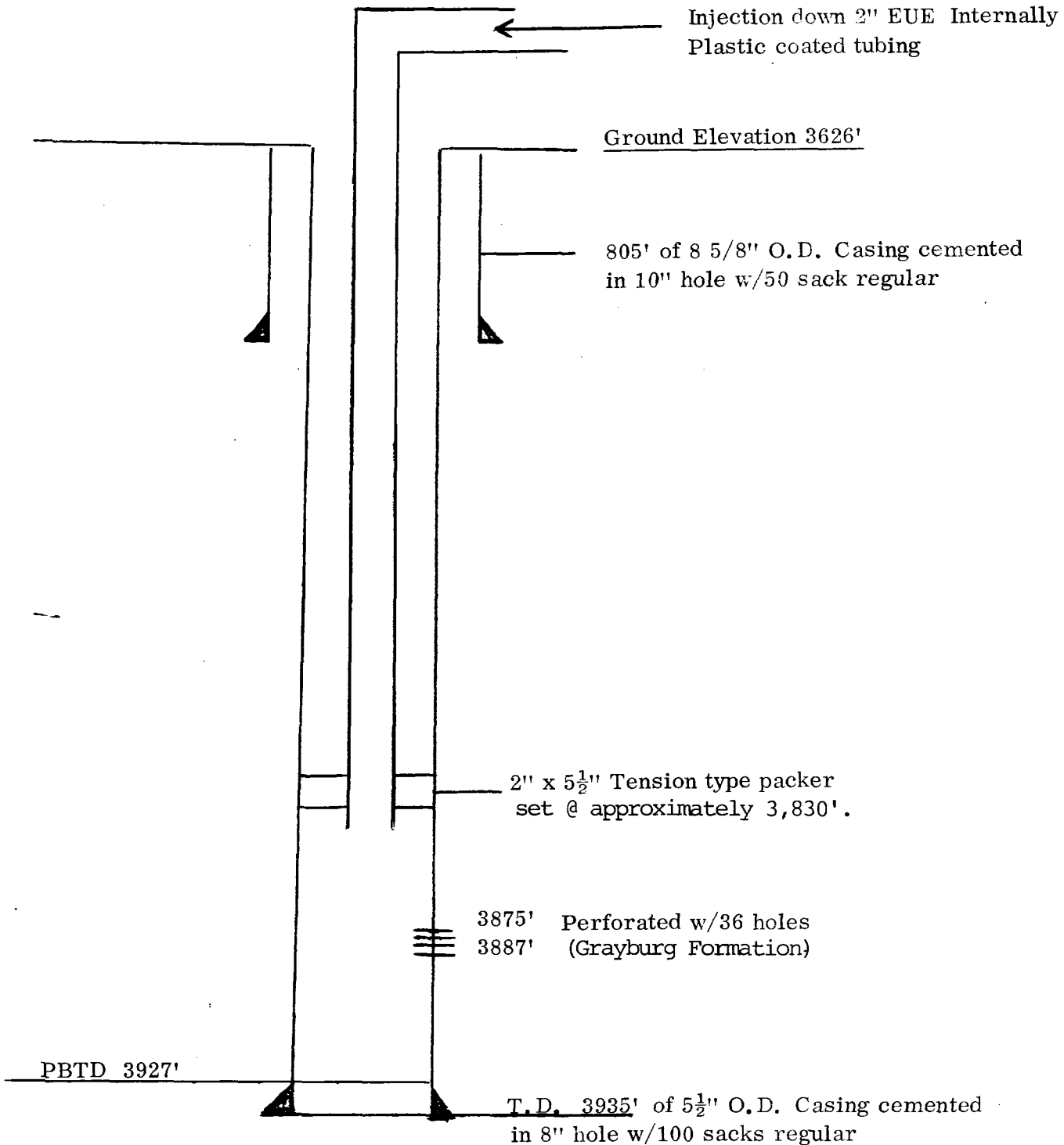
SHENANDOAH OIL CORPORATION

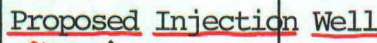
GULF No. 2 (NM025778A)

Unit H, 1650' FNL & 330' FEL

Section 28, T18S, R31E

Eddy County, New Mexico



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LAW OFFICES OF
JENNINGS, CHRISTY & COPPLE
1012 SECURITY NATIONAL BANK BUILDING
P. O. BOX 1180
ROSWELL, NEW MEXICO 88201

JAMES T. JENNINGS
SIM B. CHRISTY IV
ROGER L. COPPLE
BRIAN W. COPPLE

TELEPHONE 622-8432
AREA CODE 505

August 30, 1972

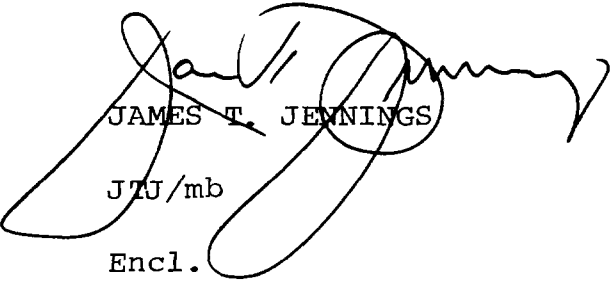
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: SHENANDOAH OIL CORPORATION HINKLE "F" SHUGART WATERFLOOD PROJECT

Enclosed herewith you will find an Application in triplicate for administrative approval of an additional water injection well in connection with the above project. The Applicant desires to convert its Gulf No. 2 Well located 1650 feet from the North line and 330 feet from the East line of Section 28, Township 18 South, Range 31 East, to a water injection well.

The Commission has heretofore granted authority for the project by Order No. R-4325 which provided for the administrative approval of additional injection wells.

If there are any questions or if you find that you need any further information, please call us. A copy of the Application is being transmitted to the U.S.G.S. in Artesia.



JAMES T. JENNINGS

JTJ/mb

Encl.

cc: Shenandoah Oil Corporation



*Gamma Ray
Neutron*

FILE NO.

COMPANY V. S. WELCH

WELL GULF NO. 2

FIELD SHUGART

COUNTY EDDY STATE NEW MEXICO

LOCATION:

1650' FNL & 330' FEL

Other Services

SEC 28 TWP 18-S RGE 31-E

Permanent Datum GROUND LEVEL Elev. 3626
Log Measured from D. F. 4 Ft. Above Permanent Datum
Drilling Measured from D. F.

Elevations:

KB

DF 3630

G 3626

Date	<u>4-7-69</u>		
Run No.	<u>ONE</u>		
Type Log	<u>G/R-N/TN</u>		
Depth-Driller	<u>3918</u>		
Depth-Logger	<u>3917</u>		
Bottom Logged Interval	<u>3916</u>		
Top Logged Interval	<u>1900</u>		
Type Fluid in Hole	<u>WATER</u>		
Salinity Ppm Cl.			
Density Lb. Gal.			
Level	<u>3550</u>		
Max. Rec. Temp. Deg. F			
Opr. Rig Time	<u>3 HOURS</u>		
Recorded By	<u>TURNBULL</u>		
Witnessed By	<u>MR. WELCH</u>		

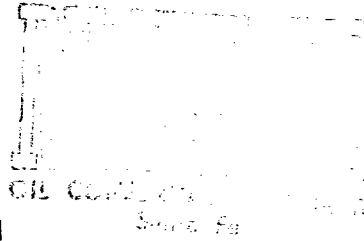
Run No.	Bore Hole Record			Casing Record			
	Bit	From	To	Size	Wgt.	From	To
<u>1</u>				<u>5 1/2"</u>		<u>SURF.</u>	<u>T.D.</u>

Exhibit "B"



SHENANDOAH OIL CORPORATION

September 29, 1972



B. J. KELLENBERGER
PRESIDENT

1500 COMMERCE BUILDING
FORT WORTH, TEXAS 76102
817/332-7381
TWX 910 890 5023

Re: Commission WFX Order No. 378
To Expand the Hinkle "F" Shugart
Waterflood Project, Eddy County,
New Mexico

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: A. L. Porter

Gentlemen:

In accordance with Rule 703 (a) of the New Mexico Rules and Regulations Book, this is to advise you that water injection was commenced September 29, 1972, into the below listed well (see plat) as set forth in "Application for Administrative Approval" Order #R-4325.

Lease & Well Number

Gulf #2

Location

Unit H, Section 28, T-18S, R-31E

Very truly yours,

SHENANDOAH OIL CORPORATION

T. P. Bates
Vice President

TPB:jn
Attachment
CC: OCC - Artesia
USGS - Artesia
Jennings, Christy & Copple
C. W. Downey, Jr.