



WFX-273

Due Oct 31

TENNECO OIL COMPANY • P. O. BOX 1031 • 1800 WILCO BUILDING • MIDLAND, TEXAS 79701

October 12, 1967

New Mexico Oil Conservation Commission
A. L. Porter, Jr., Secretary Director
P. O. Box 2088
Santa Fe, New Mexico

7-16-1967

Gentlemen:

Reference is made to Order R-3069 authorizing Tenneco to institute a waterflood project in the Grayburg Jackson Pool by injecting water into the four wells located in Section 28, T-17-S, R-29-E, Eddy County, New Mexico. The order further provides for expansion by Administrative approval upon unitization. The G-J West Coop. Unit was approved by order no. R-3127.

The four wells initially placed on injection were to determine if the formation would accept water at a reasonable pressure and later four additional wells were converted to injection wells under order WFX no. 245. On September 20, 1967 under Administrative order WFX no. 271, permission was given to convert six wells in the north end of the unit to water injection service into the San Andres and Upper Grayburg Sands.

Tenneco hereby requests Administrative approval to further expand the project by converting unit well No. 47 in Section 21 to water injection into the San Andres and Upper Grayburg Sands. All injection intervals are within the vertical limits of the field as defined by the Conservation Committee field rules.

Fresh water, purchased from Double Eagle Corporation, will be injected into the formations in the well at an estimated rate of 500 barrels per day.

The following is attached:

1. A plat showing the outline of the G-J West Coop. Unit with the existing injection wells shown in red, the wells to be converted to injection by order WFX no. 271 shown in blue, and the subject well no. 47 of this application shown in green.
2. Log of Unit well no. 47 with completion intervals marked.

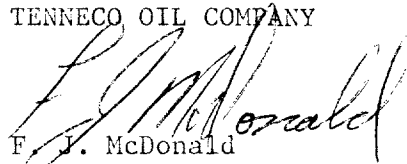
TENNECO OIL COMPANY

3. Diagrammatic sketch of the proposed injection well showing all casing strings, amount of cement used, intervals to be injected into, tubing, type and location of packer, as well as other pertinent information.

We will appreciate your approval of this application as soon as possible.

Yours very truly,

TENNECO OIL COMPANY



F. J. McDonald
District Production Superintendent

WVP:lr

Attachments

cc: State Engineer Office
Capitol Building
Santa Fe, New Mexico

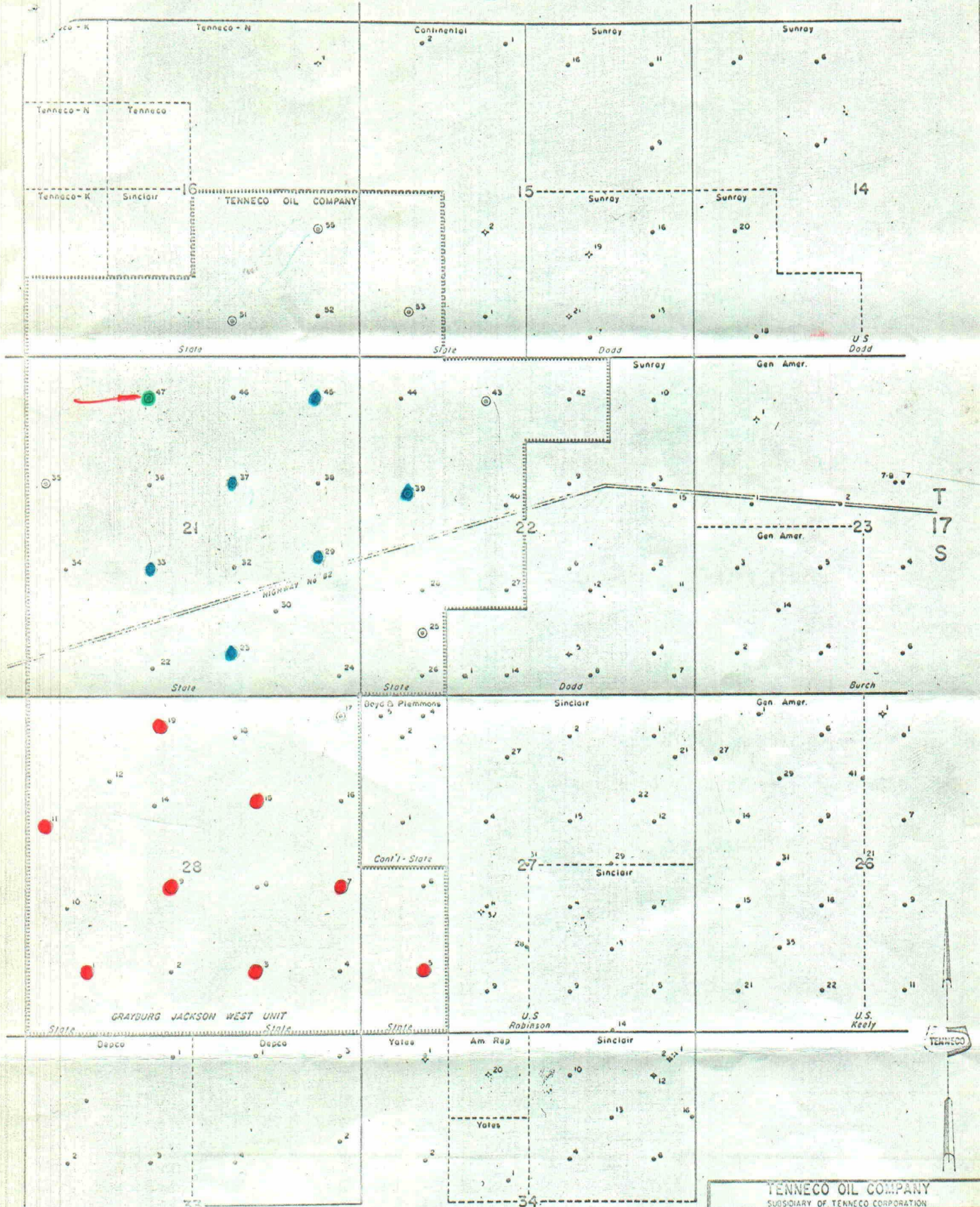
Boyd & Plemmons
P. O. Box 692
Artesia, New Mexico

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico

Depco
325 Petroleum Club Bldg.
Denver, Colorado

Sinclair Oil & Gas Co.
P. O. Box 1470
Midland, Texas

Sunray DX Oil Company
P. O. Box 1416
Roswell, New Mexico



Red ● INJECTION WELLS
 Blue ● PROPOSED INJECTION WELLS
 Green ● Proposed subject injection well

Order No. WFX 271

TENNECO OIL COMPANY
 SUBSIDIARY OF TENNECO CORPORATION
 GRAYBURG JACKSON FIELD
 EDDY COUNTY, NEW MEXICO
 GRAYBURG JACKSON WEST UNIT
 WATERFLOOD PROJECT

SCALE IN FEET
 1000 500 0 1000 2000

Top cement 700'
By Temp. Survey

8-5/8" OD, 28#/ft csg set
@ 376" W/200 sks. cement

2-3/8" OD, 4.7#/ft TBG

1" non-upset TBG

Top Grayburg- 2122'

Tension packer at approx. 2200'

2255'

Perfs.
2400'

Top San Andres 2403'
Seating nipple & hold down

Cup type packer at approx. 2440'

Top Lovington 2492'

2494'

Perfs.
2502'

4-1/2" OD, 10.5#/ft csg set
@ 2549' W/200 sks. cement

Open Hole 2549-2720

Grayburg Sand Pay

Lovington Pay

Oolitic Pay
TD 2720'



Water will be injected into the San Andres Lovington & Oolitic Zone down 1" NUE tubing and below a seating nipple set inside the 2-3/8" EUE tubing. Water will be injected into the Grayburg Sands down the 1" Nue and 2-3/8" EUE annulus and between the 2-3/8" EUE and 4-1/2" csg with packers set at 2200' and 2440'. The casing-tubing annulus above the packer set at 2200' will be loaded with corrosion-inhibited fluid.

TENNECO OIL COMPANY
SUBSIDIARY OF TENNECO CORPORATION

PROPOSED WI UNIT #47
Grayburg-Jackson Field

T-17-S, R-29-E, Eddy
County, New Mexico
Dual Water Injection Well

Well File Section Work Card

Wells - Miller
Company

FILE NO.

COMPANY Tenneco Oil Co

WELL State 1 No 25 Unit # 47

FIELD Grayburg-Jackson

COUNTY EDDY STATE N.M.

LOCATION: 660ENC, 1780E W

SEC 21 TWP 17-S RGE 22-E

Other Services NONE

Permanent Datum GL Elev. 3550
Log Measured from D.K. 3 9 Ft. Above Permanent Datum
Drilling Measured from D.K. 3

Elevations:
KB 3553
DF 3558
GL 3550

Date 6/18/46

Run No. ONE

Type Log QDC

Depth-Driller 2720

Depth-Logger 2719

Bottom Logged Interval 2717

Top Logged Interval 160

Type Fluid in Hole H₂O

Salinity Ppm Cl. 8.34

Density lb./Gal. 8.34

Level FCU1

Max. Rec. Temp. Deg. F 90

Opt. Rig Time 2 hrs

Recorded By JOHN L

Witnessed By M. E. HENRY

Bore Hole Record

Run No.

Bit From To

Size

Wgt. From To

Casing Record

Run No.

Bit From To

Size

Wgt. From To

