



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

March 19, 1969

WFX-308

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

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

Re: Tenneco Oil Company Grayburg-
Jackson Waterflood, Eddy County,
New Mexico

Gentlemen:

Tenneco Oil Company requests administrative authorization to expand the captioned flood by converting Well No. 58 from production to injection. Injection will be down 2 inch tubing under a packer into the San Andres and Grayburg formations.

The proposed injection intervals are within the vertical limits of the field as defined by the Commission field rules. Fresh water, purchased from the Double Eagle Corporation, will be injected in this well at an estimated rate of not more than 500 barrels per day.

To support this request, the following are attached.

1. A plat showing the outline of the Grayburg Jackson Unit with all existing injection wells shown as well as the proposed Well No. 58.
2. A log of Unit Well No. 58 with completion intervals shown.
3. A diagrammatic sketch of the proposed injection well showing all pertinent information.

The original authorization of this flood was under Order No. R-3069 dated June 1, 1966. It was later expanded under Order No. WFX245 and WFX 271.

Yours very truly,

TENNECO OIL COMPANY

F. J. McDonald

District Production Superintendent

LMW:jo

cc: All on attached list.

TENNECO OIL COMPANY

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New Mexico Oil Conservation Commission

March 19, 1969

State Engineers Office
Capitol Building
Santa Fe, New Mexico

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

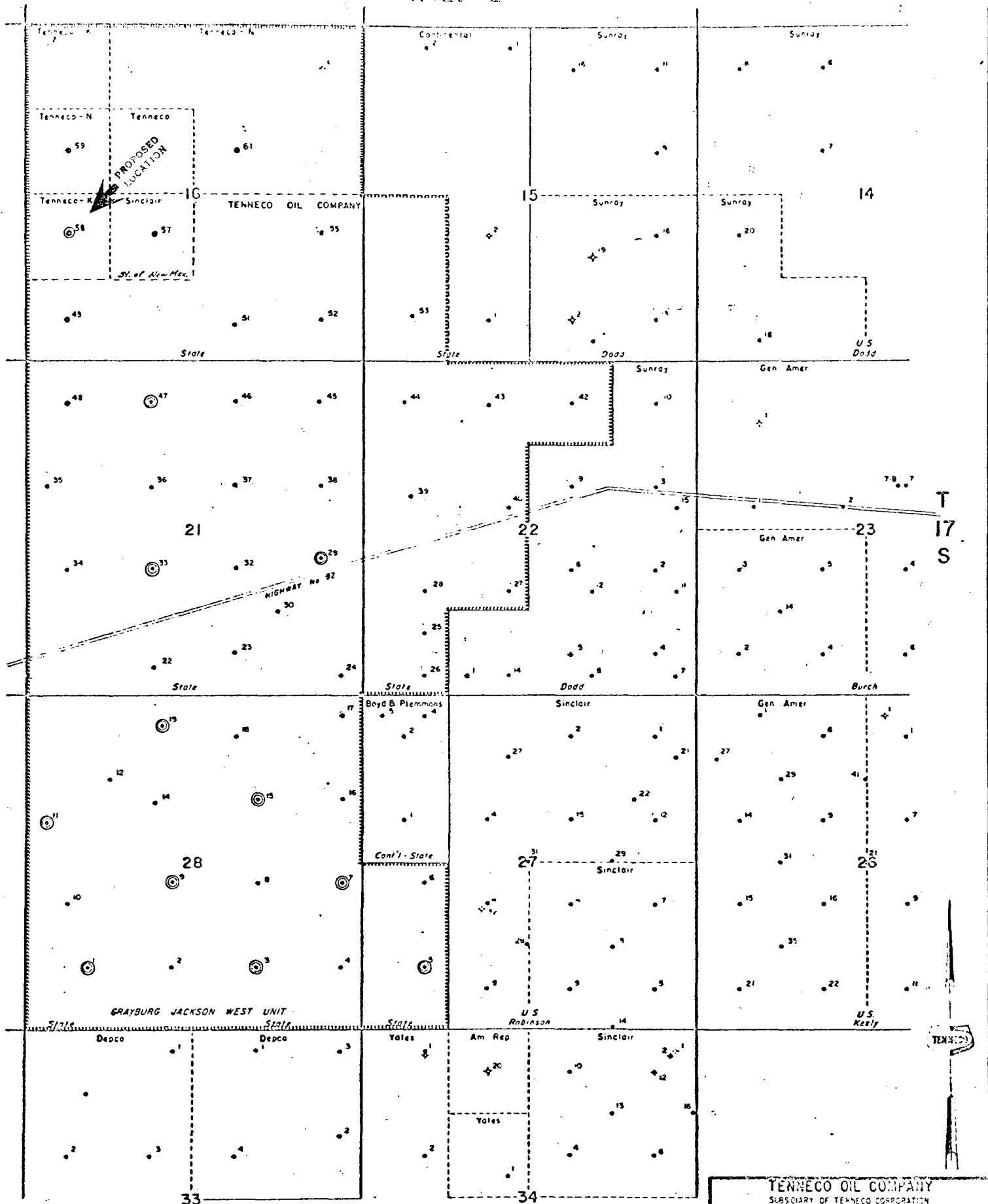
Continental Oil Company
P.O. Box 460
Hobbs, New Mexico

Depco
825 Petroleum Building
Denver, Colorado

Sinclair Oil & Gas Company
P.O. Box 1470
Midland, Texas 79701

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

R-20-E



LEGEND

- INJECTION WELLS
- ⊙ PROPOSED INJECTION WELLS

TENNECO OIL COMPANY
SUBSIDIARY OF TENNECO CORPORATION
GRAYBURG JACKSON FIELD
EDDY COUNTY, NEW MEXICO

PROPOSED INJECTION WELL
WELL NO. 58

SCALE IN FEET
1000 500 0 1000 2000

COMPENSATED FURNITURE DENSITY LOE

LD HERE

EQUIPMENT DATA

CALIBRATION DATA

LOGGING DATA

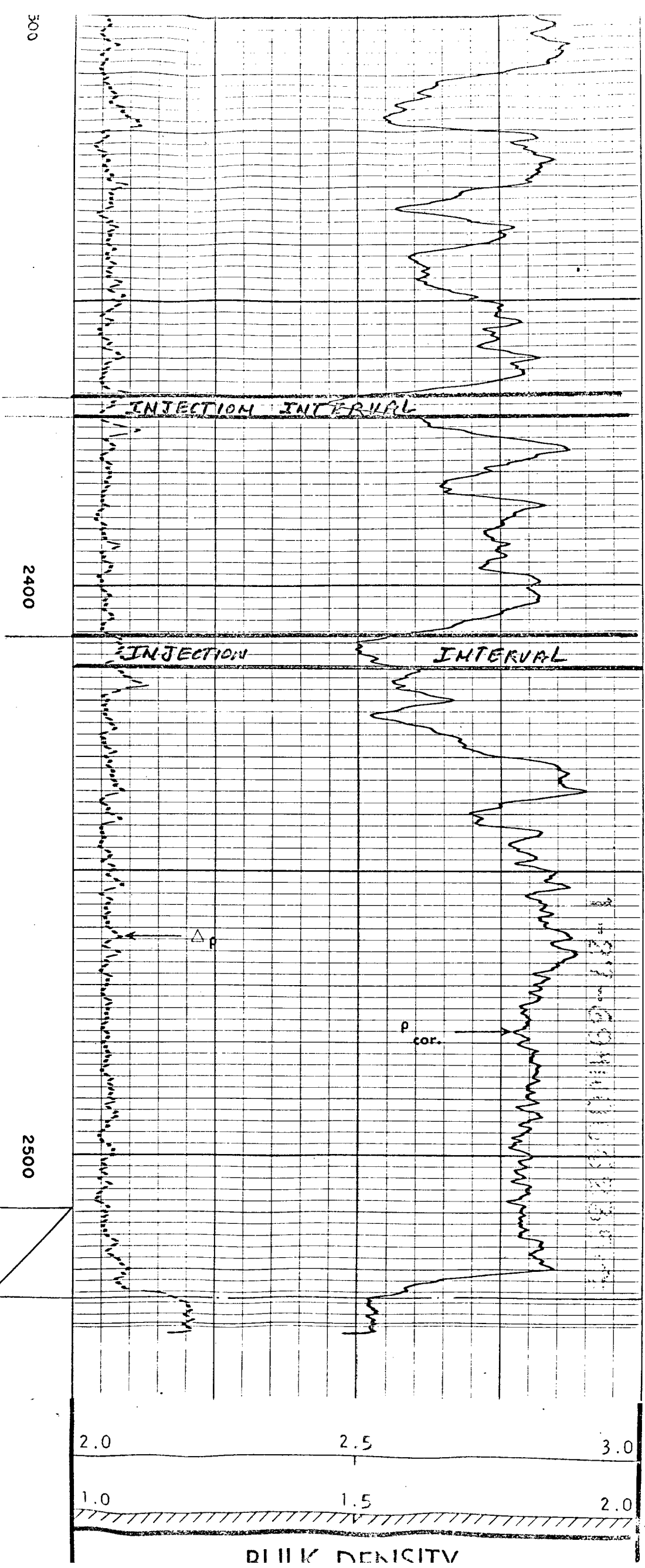
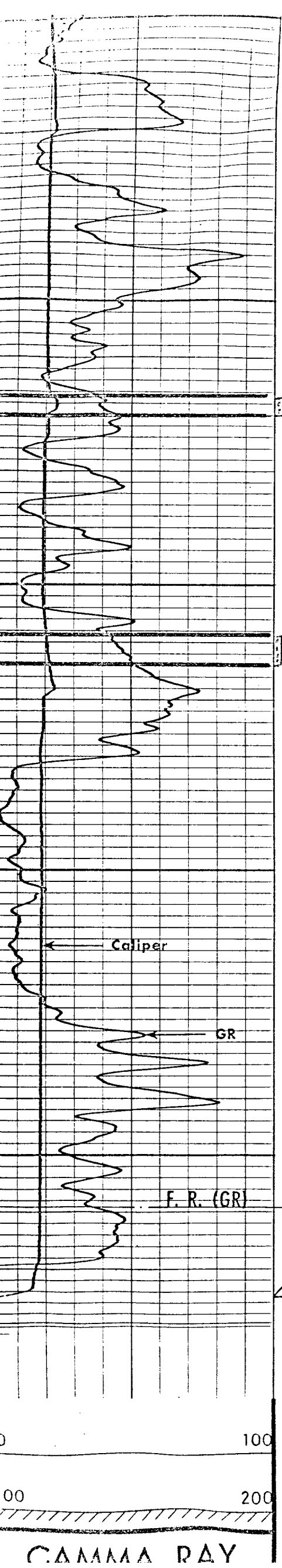
MUD DATA

arks:

DEPTHS

CORRECTION
GRAMS/CC.

GRAMS/CC.



300

2400

2500

INJECTION INTERVAL

INJECTION

INTERVAL

Caliper

GR

F. R. (GR)

$\Delta \rho$

$\rho_{cor.}$

2450 2460 2470 2480 2490 2500 2510 2520 2530 2540 2550 2560 2570 2580 2590 2600

100

200

2.0

2.5

3.0

1.0

1.5

2.0

GAMMA RAY

DENSITY

8 5/8" CSG. AT 372 SX. CIRCULATED

PRESSURE GAUGE ON ANNULUS

ANNULUS FILLED WITH
TREATED PAKER FLUID

2 3/8" J-55 4.7 # EUE TUBING

TOP CEMENT AT 1580'

PACKER AT 2350'±

PERFS. 2367'-2370' (3')

PERFS. 2409'-2414' (5')

PBTD AT 2570'

4 1/2" CSG. AT 2600' w/175 SX.



TENNECO OIL COMPANY
SUBSIDIARY OF TENNECO CORPORATION

GRAYBURG JACKSON UNIT
EDDY COUNTY, NEW MEXICO

PROPOSED INJECTION WELL
WELL NO. 58