

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

July 14, 1970

Val - 345

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 Mesa Queen Unit Waterflood, Lea County, New Mexico

Gentlemen:

Tenneco Oil Company requests administrative authorization to expand the captioned flood by placing Well No. 25 on injection. Injection will be down 2-inch tubing under a packer into the Queen Sand formation.

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.

- A plat showing the outline of the Mesa Queen Unit with all existing injection wells shown as well as the proposed Well No. 25.
- (2) A log of Unit Well No. 25 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-3444 dated July 3, 1968.

Yours very truly,

2. y Cames

District Production Superintendent

LMW/yt Attachments cc: (See attached list)

0.00 A. A. B. A. H. B. **13**

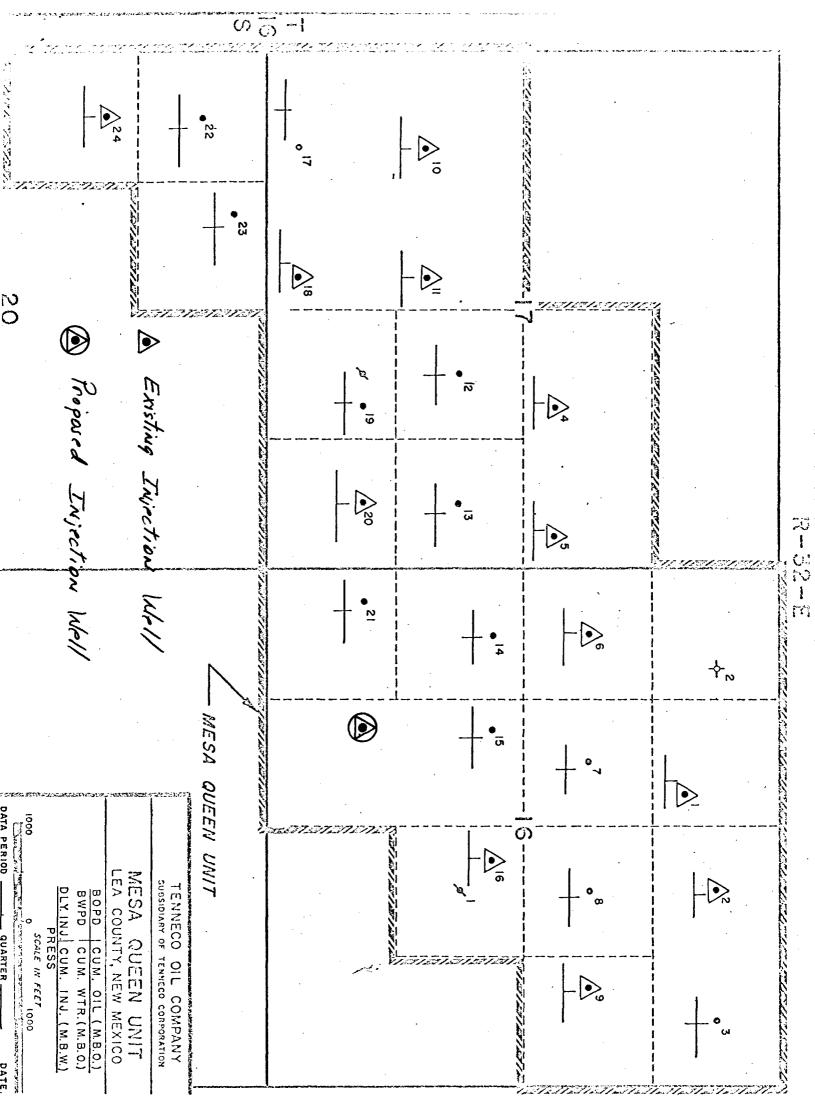
New Mexico Oil Conservation Commission July 14, 1970 Page 2

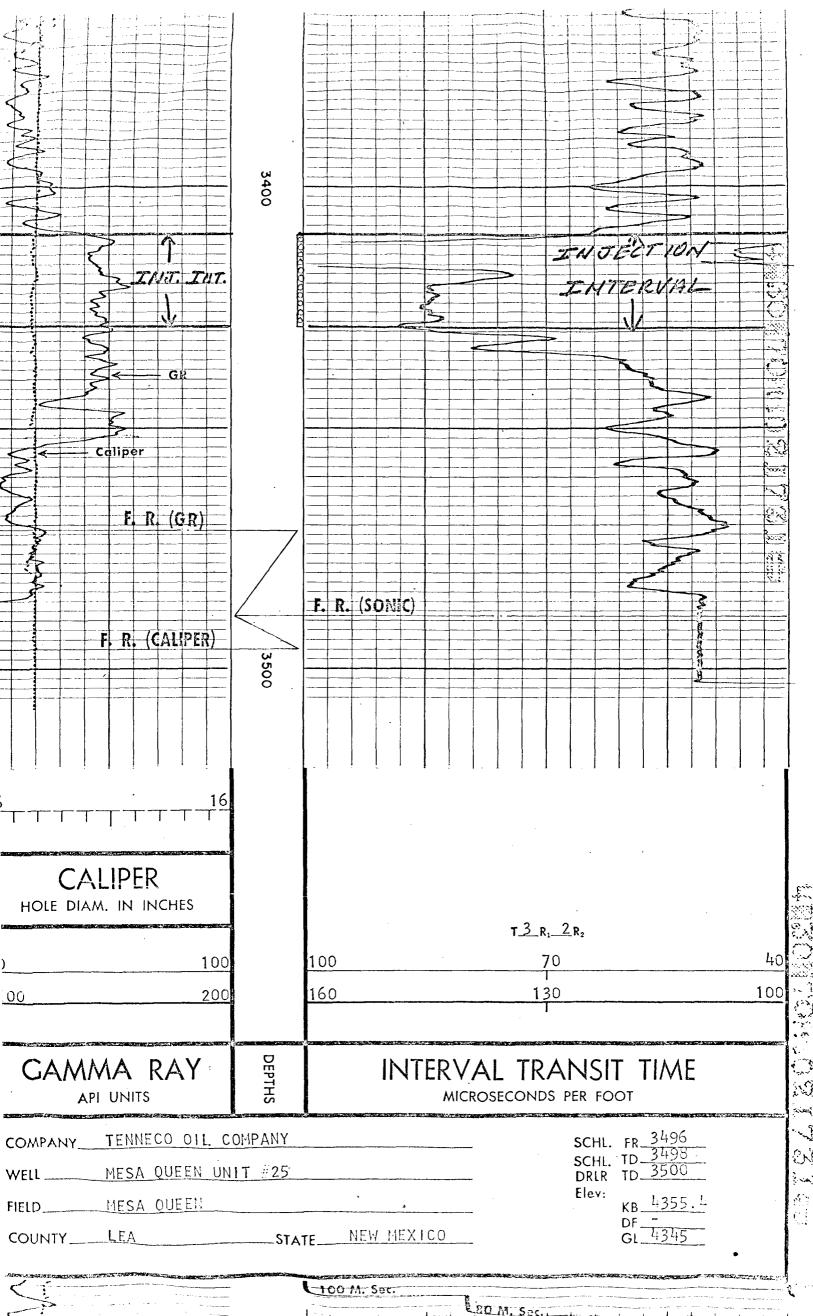
State Engineers Office Capitol Building Santa Fe, New Mexico 87501

. . .

R. A. Dean (offset operator) 823 Midland Tower Midland, Texas 79701

NMOCC Box 1980 Hobbs, New Mexico 88240





Lao Ma Sacart Laboration in the second

KS Scale Changes Scale Up Hole Scale Down Hole Driller Image: Scale Up Hole Scale Down Hole Scale Down Hole Urisc. Image: Scale Up Hole Scale Up Hole Scale Down Hole Image: Visc. Image: Scale Up Hole Scale Down Hole Image: Scale Up Hole Scale Down Hole Image: Visc. Image: Scale Up Hole Scale Up Hole Scale Down Hole Image: Scale Up Hole Scale Down Hole Image: Visc. Image: Scale Up Hole Scale Up Hole Scale Down Hole Image: Scale Up Hole </th <th>id in Hole $77/8$ I Visc. 10.4 34 ml ml</th> <th>Date1+-28-70Run No.0NFDepth—Driller3500Depth—Logger3498Btm. Log Interval3496Top Log Interval3496Casing—Driller8 5/8@ 385@@Casing—Logger286</th> <th>Permanent Datum: G.L. Flev. 1/3/45 Elev.: K.B. 4/355.4 Generation Log Measured From K.B. 10.4 Ft. Above Perm. Datum D.F. 0.1.4</th> <th>COUNTY_FIELD or LOCATION 1650' FWL & 990' FSL Other Services: COMPANY LOCATION 1650' FWL & 990' FSL Other Services: NONE NONE NONE</th> <th>IMESA Q MESA Q</th> <th>WELL MESA QUEEN UNIT #25</th> <th>COMPANY TENNECO OIL COMPANY</th> <th>SCHERER SOMETHIE CONDENSATED</th>	id in Hole $77/8$ I Visc. 10.4 34 ml ml	Date1+-28-70Run No.0NFDepth—Driller3500Depth—Logger3498Btm. Log Interval3496Top Log Interval3496Casing—Driller8 5/8@ 385@@Casing—Logger286	Permanent Datum: G.L. Flev. 1/3/45 Elev.: K.B. 4/355.4 Generation Log Measured From K.B. 10.4 Ft. Above Perm. Datum D.F. 0.1.4	COUNTY_FIELD or LOCATION 1650' FWL & 990' FSL Other Services: COMPANY LOCATION 1650' FWL & 990' FSL Other Services: NONE NONE NONE	IMESA Q MESA Q	WELL MESA QUEEN UNIT #25	COMPANY TENNECO OIL COMPANY	SCHERER SOMETHIE CONDENSATED	
Sample No. Type Log Depth Scale Up Hole Scale Down Hole Driller uid in Hole									
Image: Note of Sample Image: Second Sample <t< td=""><td>Sample No. –Driller</td><td></td><td>vpe Log</td><td></td><td></td><td>-</td><td>Scale Down I</td><td>tole</td></t<>	Sample No. –Driller		vpe Log			-	Scale Down I	tole	
PMeas. Temp. 0.92 @ 75 °F @ °F Run No. Tool Type Pod Type Tool Pos. Other CA Meas. Temp. 0.96 @ 74 °F @ °F @ °F CA CA CA Meas. Temp. - @ °F @ °F CA CA CA CA Meas. Temp. - @ °F @ °F CA CA CA CA PMeas. Temp. - @ °F @ °F CA CA CA CA PBHT .042 @ 94 °F @ °F CA CA CA CA CA PBHT @ °F @ °F CA	Fluid Loss ml				quipment	Data			
BHT $0.42 @ 94 °F$ @ °F) Meas. Temp 052 @ 75 °F) Meas. Temp 046 @ 74 °F) Meas. Temp. – @ – °F	@ °F	No. To				Other		
YES S.O.: SPRING & CALIPER . Used: CART. No. SLH-C-96 PANEL No. SLP-C-291 SONDE No. SLS-H-525 RATION: BACKGND. SOURCE GALV. INCR. SENS. TAP TIME CPS. CPS. DIVISIONS (FOR CAL.) (RECORD) SPEED (FT./MIN.) Va RAY: 50 400 82.5 800 400 1 45/60. Velocity (feet per second) = 1,000,000 Interval Transit Time (microseconds per foot) GAMMAR RAY H H INTERVAL TRANSIT TIME MICROSECONDS PER FOOT	<u>овнт .042@94°F</u> овнт @°F	@ °F							
CATION: BACKGND. SOURCE GALV. INCR. SENS. TAP SENS. TAP TIME RECORDING SPEED I CPS. CPS. DIVISIONS (FOR CAL.) (RECORD) CONST. SPEED (FT./MIN.) I VA RAY: 50 400 82.5 800 400 1 45/60. IN Velocity (feet per second) = 1,000,000 INTERVAL TRANSIT TIME INTERVAL TRANSIT TIME API UNITS H MICROSECONDS PER FOOT	YES S.O.: SPI . Used: CART. No. SLI PANEL No. SL	H=C-96 P=C-291	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		
Velocity (feet per second) = 1,000,000 Interval Transit Time (microseconds per foot) GAMMA RAY API UNITS PT INTERVAL TRANSIT TIME MICROSECONDS PER FOOT	RATION: BACKGND. SOURCE CPS. CPS.	GALV. INCR. SI DIVISIONS (F	OR CAL.)	(RECORD)	CONST.	SPEED (FT.	./MIN.)	14400 1440 1440 1440 1440 1440 1440 144	
GAMMA RAY Interval Transit Time (microseconds per foot) INTERVAL TRANSIT TIME API UNITS									
	Interval Transit Time (microseconds per foot)								
	GAMMA RAY API UNITS BY INTERVAL TRANSIT TIME MICROSECONDS PER FOOT								
· 100 100 70 40		100	$T_{R_1} 2_{R_2}$						
$\frac{100}{160} \qquad \frac{70}{130} \qquad \frac{40}{100}$				an a	1	TONNIS, BUSINESSANDARTONOMIA AN	JALAN BALLAR DADOLF SHALL HEALTLAN ARA	<u>40</u> 100	

