

# Mobil Producing Texas & New Mexico Inc.

July 10, 1980

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey

7.01 INJECTION PRESSURES  
E.K. QUEEN UNIT - WELL NO.  
6-8 WIW AND 10-1 WIW  
E.K. Yates, 7-Rivers, Queen Field  
Lea County, New Mexico

Sir,

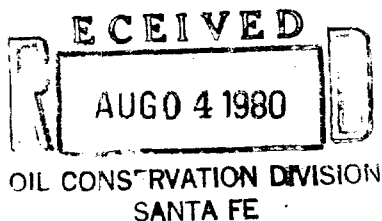
Please refer to your Administrative Order No. WFX 474, April 23, 1979 which limits the surface injection pressure of the subject wells to 865 psig.

Mobil conducted step rate tests on these wells and submitted the results to your office on August 1, 1979. The test on #6-8 WIW exhibited rates up to 400 BWPD @ 1950 psig with no break. The test on #10-1 WIW showed a curved line up to 500 BWPD @ 1650 psig, with possible fracturing at 1440 psig. You therefore authorized Mobil to increase injection pressure to 1440 psig, and no higher.

After injecting at this pressure for several months, the injection rates fell off sharply. Mobil then contracted Step Rate Testers Inc. to conduct a test of #10-1 WIW. The attached copy of the results shows a fracture pressure of 2050 psig.

In view of the above, Mobil respectfully requests that the wellhead injection pressure limit for the subject wells be administratively set at 1950 psig. Should additional information be required to grant this request, please advise.

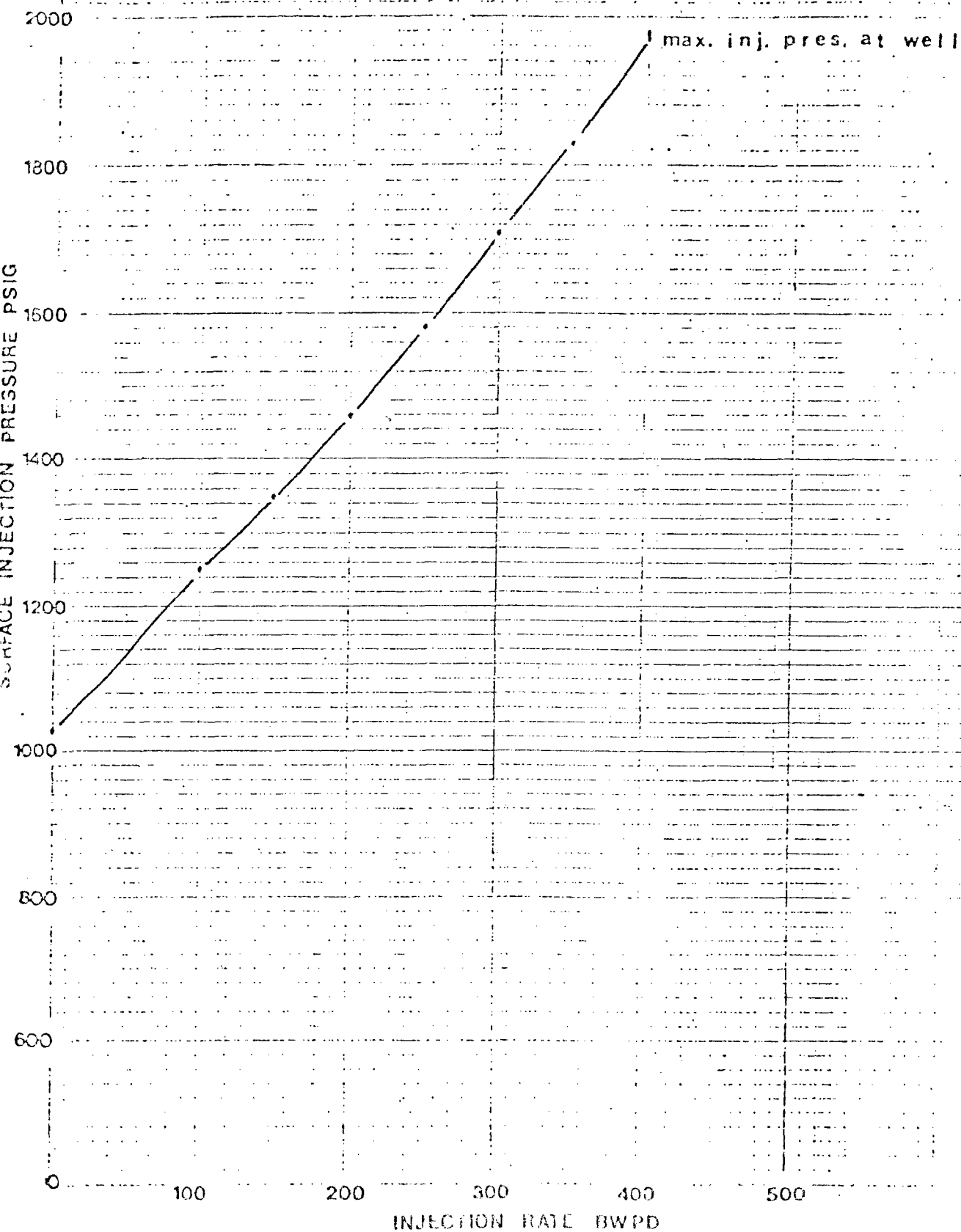
Sincerely,



Richard D. George  
Lead Operations Engineer  
Hobbs Producing District

E.K. QUEEN UNIT NO. 6-8

E.K. YATES SEVEN RIVERS QUEEN FIELD



SLR 7/20/77

915-366-3409

STEP RATE TESTERS INC.  
P.O. BOX 6414  
ODESSA TEXAS 79762COMPANY MobilDATE 5-12-80

ADDRESS \_\_\_\_\_

COMPANY

REPRESENTATIVE \_\_\_\_\_

WELL# 10-1LEASE E. K. Puciano

LOCATION \_\_\_\_\_

## TIME

## TEST DATA

DEPART SHOP \_\_\_\_\_

TIME

RATE

PRESSURE

ARRIVE LEASE \_\_\_\_\_

11:20

11:50

12:20

12:50

1:20

1:50

2:20

2:50

3:20

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START TIME 11:20

COMPLETE TEST \_\_\_\_\_

DEPART LEASE \_\_\_\_\_

ARRIVE SHOP \_\_\_\_\_

DRIVING TIME \_\_\_\_\_

TESTING TIME \_\_\_\_\_

RT. MILAGE \_\_\_\_\_

TOTAL FLUID INJECTED PRIOR  
TO TESTING \_\_\_\_\_

DATE OF LAST TEST

T.D. \_\_\_\_\_ PERF \_\_\_\_\_

T BOTTOM \_\_\_\_\_

CSG. SIZE \_\_\_\_\_

WATER WEIGHT \_\_\_\_\_

PSI

FG \_\_\_\_\_ FOOT

# GAL.

FRAC POINT

BPD

I.I.

PST

TOTAL CHARGE THIS TEST

BILLING 450.00243.27 @ .504 mi 121.54 hr @ 7.50 hr. 30.0

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DESCRIPTION OF WORK

RECEIVED

AUG 01 1980

OIL CONSERVATION DIVISION  
SANTA FE

TESTER

A.C. Tyler Jr.

COMPANY REPRESENTATIVE

Performed by A.C. Tyler Jr.

# STEP RATE TEST

10-1 (E.K. Queen)

DATE 5-12-80

## STABILIZATION:

Rate \_\_\_\_\_ BHPD

Press. \_\_\_\_\_ PSI (Surface)

Cumulative \_\_\_\_\_ Bbls.

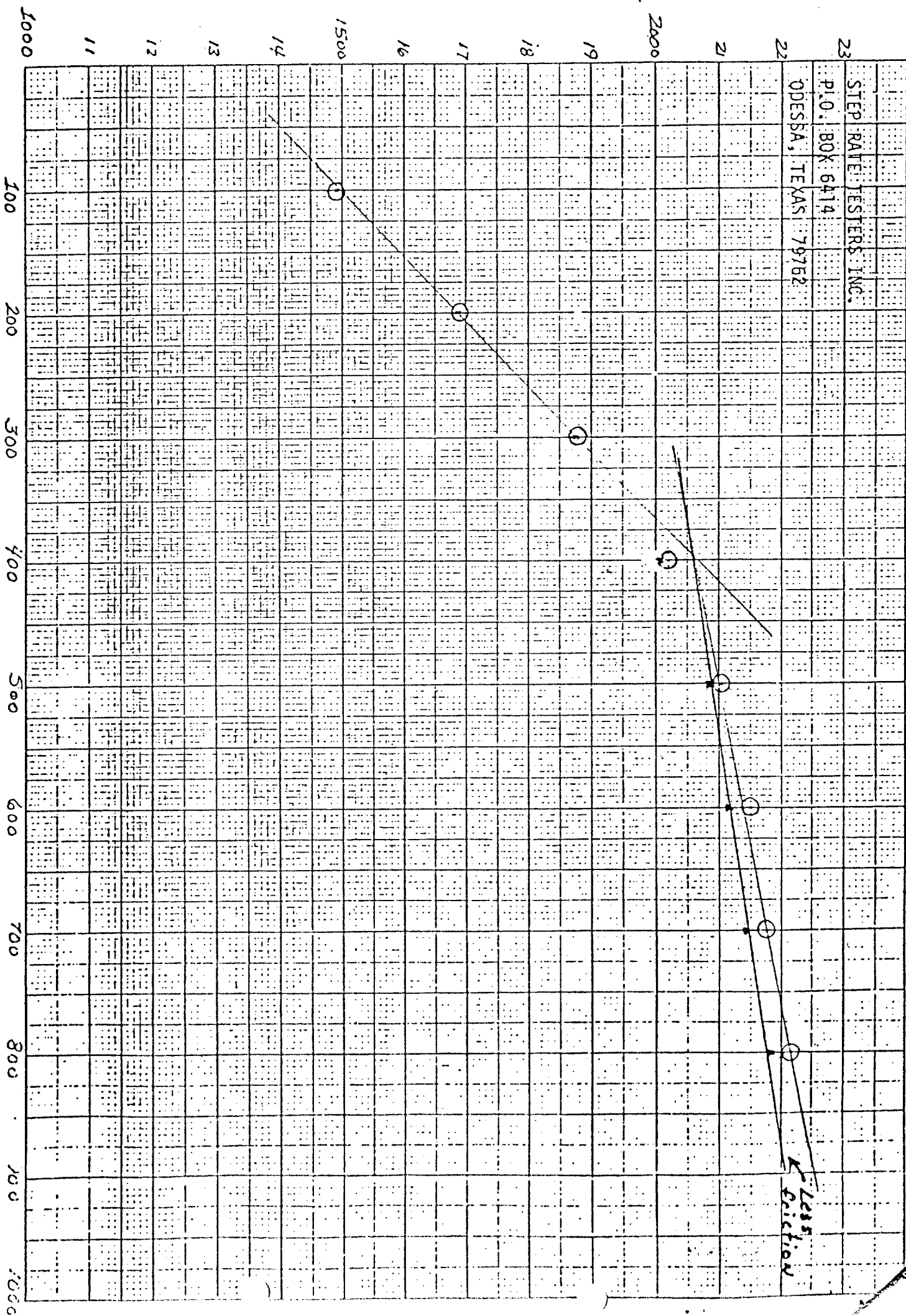
## INCREMENTS:

Rate 100 BHPD

Pressure \_\_\_\_\_ PSI

Time .50 Hrs.

⊙ ~ ⊙ BOTTOM HOLE OR SURFACE PRESSURE (PSI)



23 STEP RATE TESTERS, INC.  
P.O. BOX 6414  
ODESSA, TEXAS 79762

Less Friction

INJECTION RATE ~ BHPD