

MEWBOURNE OIL COMPANY

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1996 APR 6 52

April 1, 1996

*New Mexico Oil Conservation Commission
2040 S. Pacheco
Santa Fe, New Mexico 87505*

Attn: Mr. Mike Stogner

*Re: Application for Increased Surface Injection Pressure
Querecho Plains Bone Spring Sand Unit Waterflood Project
Lea County, New Mexico*

Case 11520

Mr. Stogner:

Mewbourne Oil Company requests administrative approval to increase surface injection pressure for the following injection wells (see attached step-rate tests):

<i>QPBSSU 11-1 ↓</i>	<i>2300 PSI</i>
<i>QPBSSU 7A-10 ↓</i>	<i>2250 PSI</i>
<i>QPBSSU 12D-2 ↓</i>	<i>2250 PSI</i>
<i>QPBSSU 12E-1 ↓</i>	<i>2500 PSI</i>
<i>QPBSSU 12B-3 ↓</i>	<i><u>2300</u> PSI</i>
<i>AVG=</i>	<i>2320 PSI</i>

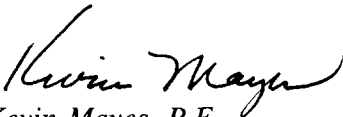
In addition it is requested that the remaining injectors, listed below, be approved a surface injection pressure of 2320 psi, or the average of the five step-rate tests.

<i>QPBSSU 12B-4</i>	<i>QPBSSU 3-4 (THIEF) ↓</i>
<i>QPBSSU 2A-1 ↓</i>	<i>QPBSSU 10-3 ↓</i>
<i>QPBSSU 4-2 ↓</i>	<i>QPBSSU 3-2 (THIEF) ↓</i>
<i>QPBSSU 3-7 (THIEF) ↓</i>	<i>QPBSSU 7A-11 ↓</i>
<i>QPBSSU 11-2</i>	

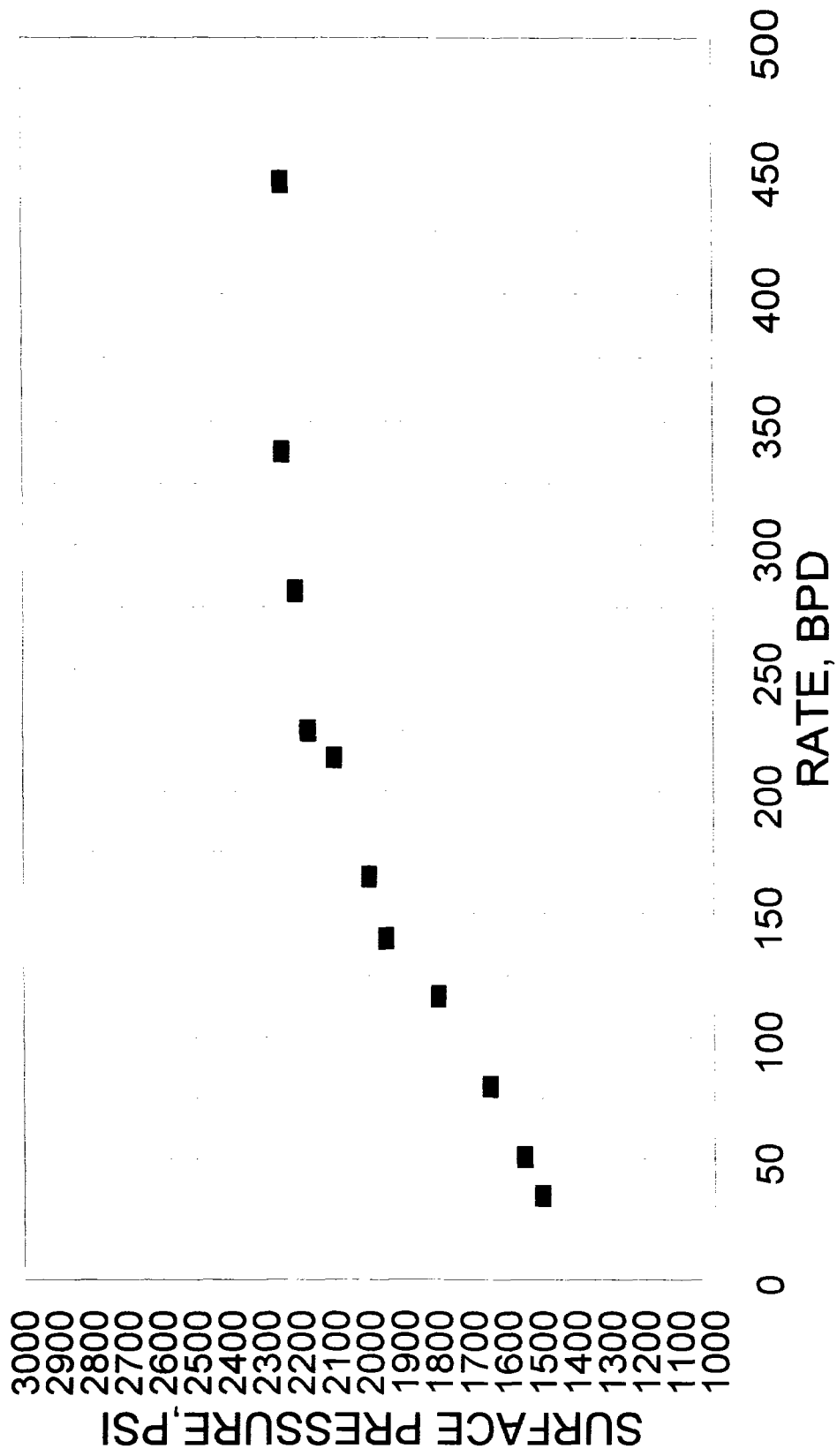
Five step-rate tests represent approximately half the injectors available for testing. Three of the injectors, indicated above in parenthesis, inject into a thief zone which communicates unacceptable volumes of water to offset producers and could not be tested. Administrative approval is requested in order to expedite the matter. The attached step-rate tests demonstrate the subject wells can inject at the surface pressures requested without propagating any existing fracture stimulation out of the First Bone Spring Sand formation.

Thank you for your consideration in the above matter. Should you have any questions or comments please call me or Ken Calvert at (903) 561-2900.

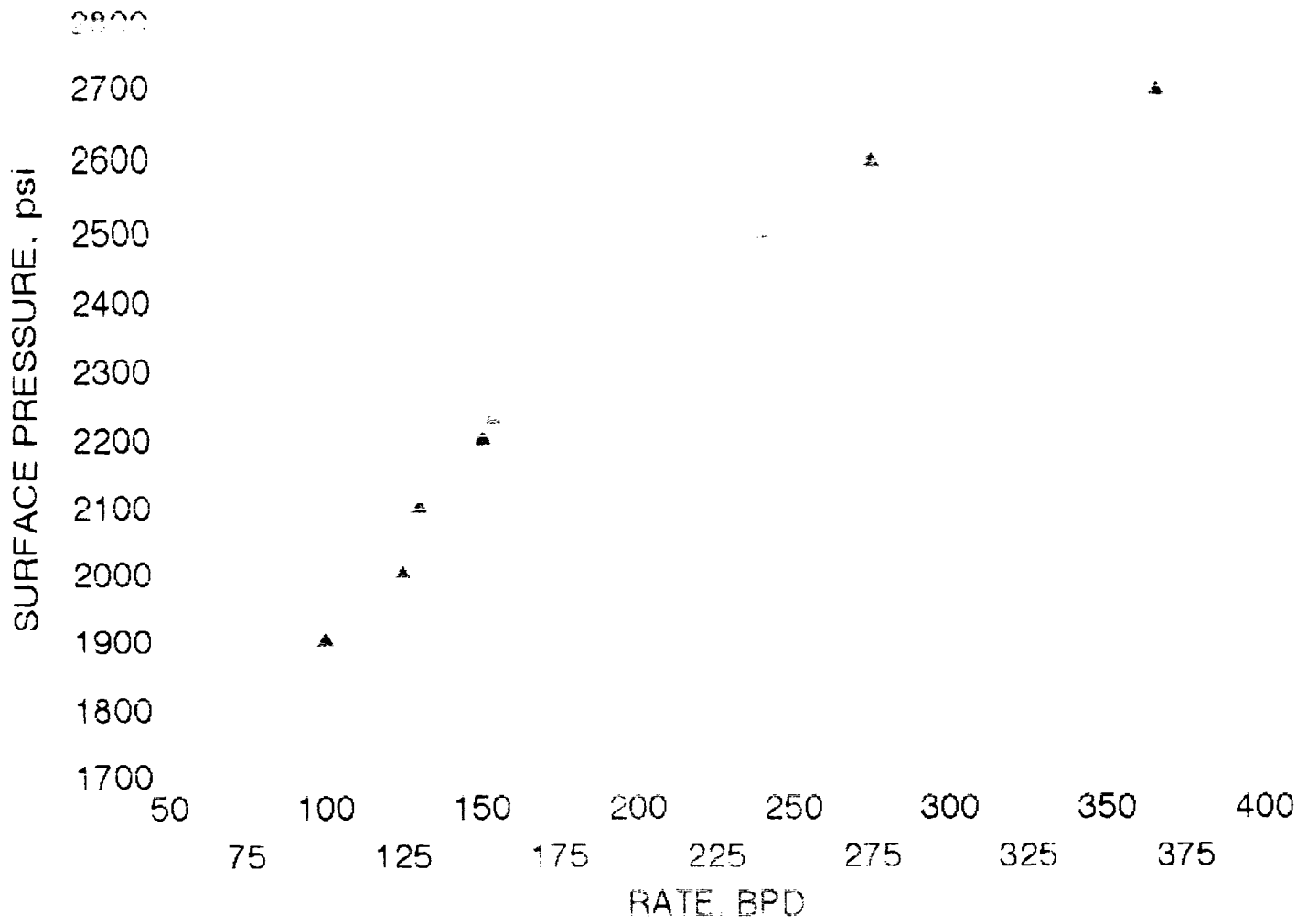
Sincerely,


Kevin Mayes, P.E.
Project Engineer

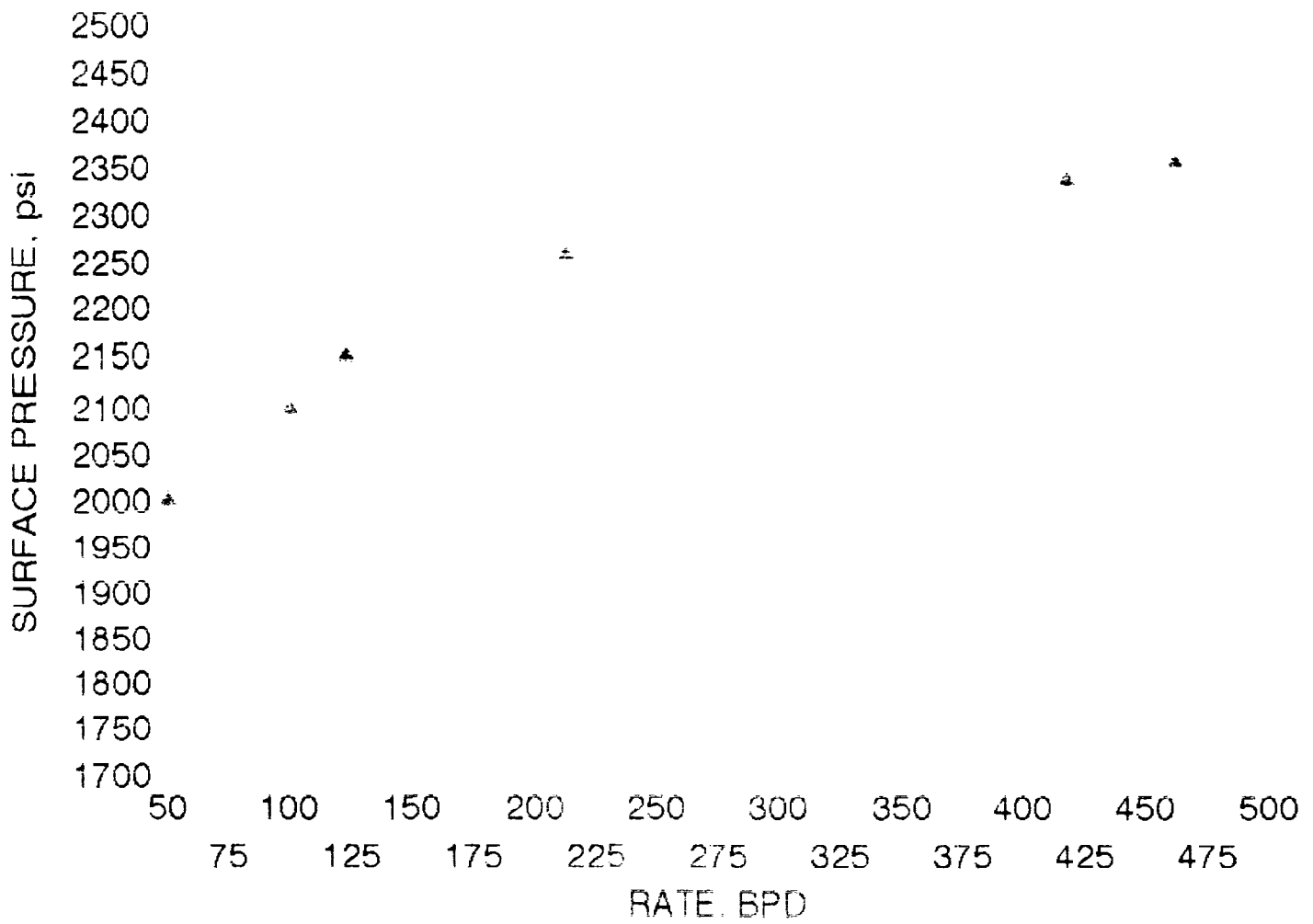
E-10 STEP RATE TEST



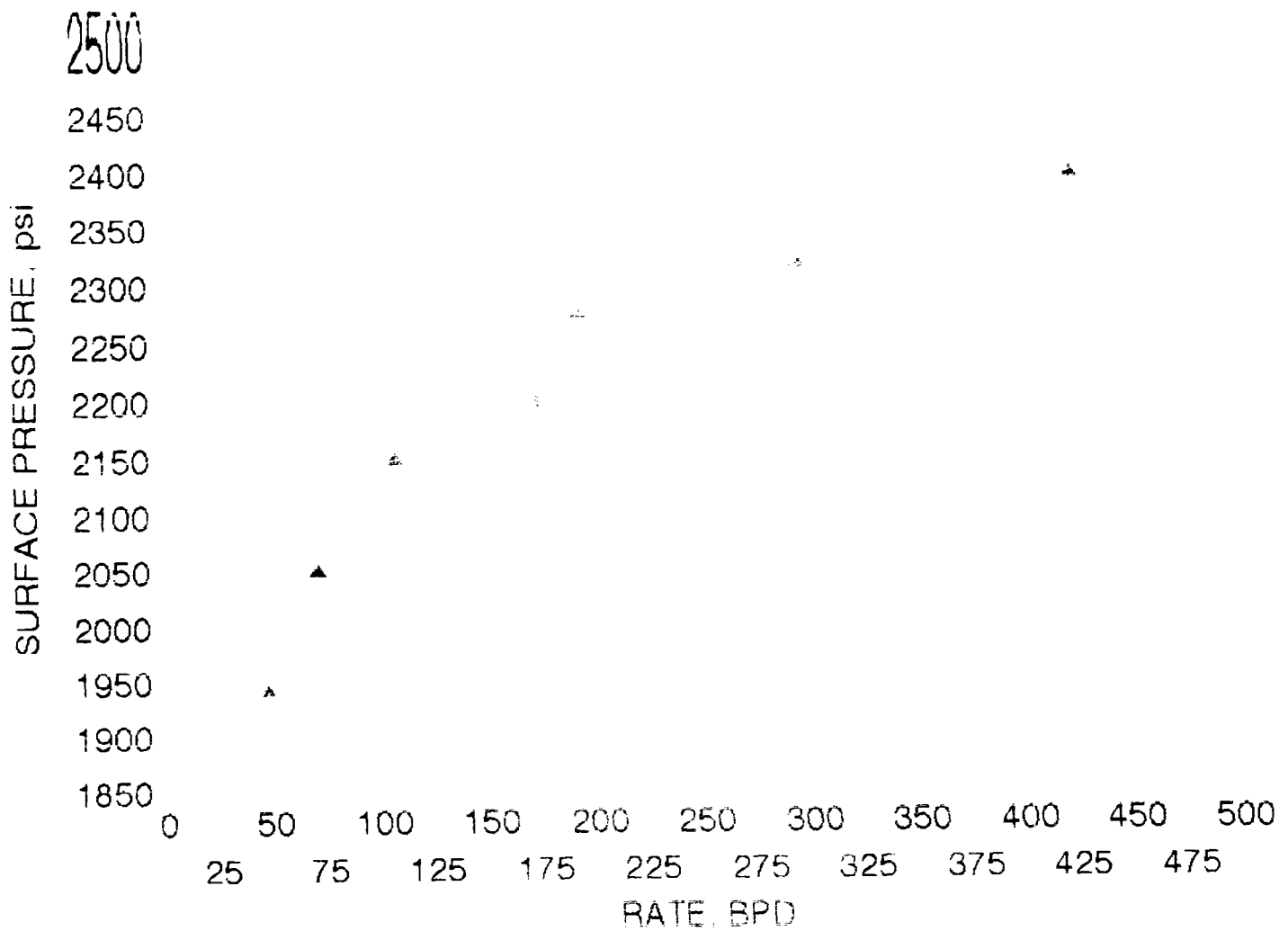
STEP RATE TEST
SPRINKLE FEDERAL #1



STEP RATE TEST
SPRINKLE FEDERAL #2



STEP RATE TEST
BURLESON FEDERAL #1



STEP RATE TEST
SHINNERY FED. #3

