



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

CF 10960
R-10151
R-10151-A

December 4, 1996

Mewbourne Oil Company
P.O. Box 7698
Tyler, Texas 75711-7698

Attn: Mr. K.M. Calvert

RE: Injection Pressure Increase Quercho Plains Queen Associated Sand Unit EOR Waterflood Project Lea County, New Mexico.

Dear Mr. Calvert:

Reference is made to your request dated October 1, 1996 to increase the surface injection pressure on two wells in the above referenced project. This request is based on step rate tests conducted recently on these wells. The results of the tests have been reviewed by my staff and we feel an increase in injection pressures on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Table with 2 columns: Well and Location, Maximum Injection Surface Pressure. Rows include QPQASU Well No.2 (Cedar Lake Well No.1) at 1470 PSIG and QPQASU Well No.17 (Marshall Well No.1) at 1625 PSIG. A note at the bottom states both wells are located in Lea County, New Mexico.

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

Handwritten signature of William J. LeMay

William J. LeMay
Director

Injection Pressure Increase
Mewbourne Oil Company
December 4, 1996
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WJL/BES

cc: Oil Conservation Division - Hobbs
Files: Case File No.10960; EOR-19; ^{2nd} PSI-X 1st QTR 97

PSI-X

N/R

MEWBOURNE OIL COMPANY

P. O. BOX 7698
TYLER, TEXAS 75711
(903) 561-2900
FAX: (903) 561-1870

October 1, 1996

NEW MEXICO OIL CONSERVATION COMMISSION
RECEIVED
1996 OCT 7 AM 8 52

GAVE VERBAL TO
K.M. CALVERT ON 11-14-96
(B9)

New Mexico Oil Conservation Commission
2040 South Pacheco
Santa Fe, New Mexico 87505

Att: Mr. David Catanach

Re: **Application for Increased Surface Injection Pressure**
Querecho Plains Queen Associated Waterflood Project
Lea County, New Mexico

Dear Mr. Catanach:

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

<u>WELL</u>	<u>REQUESTED PRESSURE</u>
QPQASU NO. 2	1520 psi 1470
QPQASU NO. 17	1675 psi 1625

Administrative approval is requested as interpreted in Division Order No. R-10151 and Division Rule 704.C. The attached step-rate tests demonstrate that the subject wells can inject at the requested surface pressures without propagating the existing fracture stimulation out of the Queen and/or Penrose formations.

The step-rate tests, as represented on the attached graph, have water gravity, friction factors and depth to top perforation incorporated in the calculations. Stabilization times between each test was held constant. It is hereby understood all other Unit wells will maintain the approved injection pressures of 1350 psi.

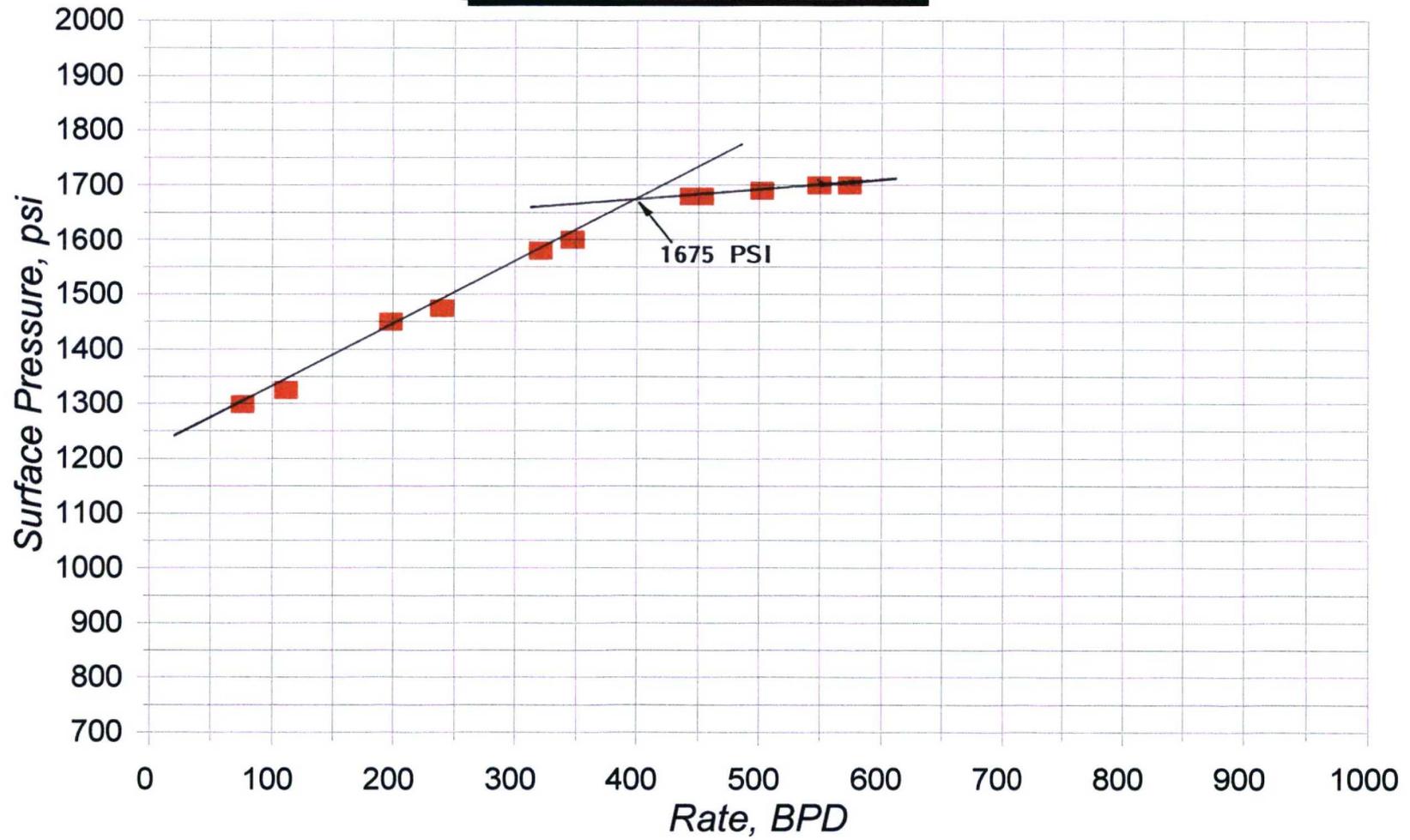
Mewbourne Oil Company respectfully submits this request for administrative approval. If you have any questions, please contact me at the above number. Thank you for your consideration.

Yours truly,
K. M. Calvert
K. M. Calvert
Engineering Manager
Secondary Recovery

KMC/sh
Attachment: Step-Rate Tests

QPQA NO. 17

Marshall #1 Step Rate Test



QPQA NO. 2

Cedar Lake #1

Step Rate Test

