

OIL CONSERVATION DIVISION

SWD 567

PDEV0020900567

January 2, 1996

Bass Enterprises Production Company
P.O. Box 2760
Midland, Texas 79702-2760

Attn: Mr. John R. Smitherman

**RE: Injection Pressure Increase, Salt Water Disposal,
Poker Lake Well No.43, Eddy County, New Mexico**

Dear Mr. Smitherman:

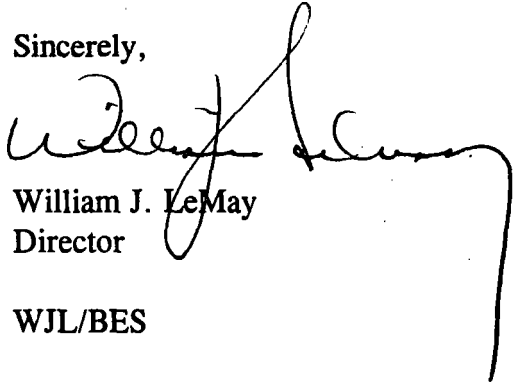
Reference is made to your request dated November 18, 1995 to increase the surface injection pressure on the above referenced well. This request is based on a step rate test conducted on November 1, 1995. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

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

Well and Location	Maximum Injection Surface Pressure
Poker Lake Well No.43, Unit Letter M	1140 PSIG
Located in Section 21, Township 24 South, Range 31 East, Eddy 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,



William J. LeMay
Director

WJL/BES

cc: Oil Conservation Division - Hobbs
File: SWD-567; PSI-X 3rd QTR 96

September 26, 1995

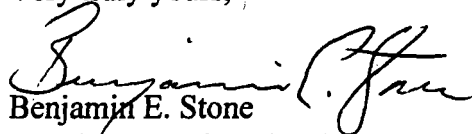
Mr. John R. Smitherman
Bass Enterprises Production Company
P.O. Box 2760
Midland, Texas 79702-2760

Re: Recent Application for Injection Pressure Increase

Dear Mr. Smitherman:

Reference is made to your recent application for an increase in injection pressure on your Poker Lake Well No.43. Please submit the original data obtained to generate the chart which was submitted with your request. As soon as I receive this information, I will expedite the continued processing of your application.

Very truly yours,


Benjamin E. Stone
Petroleum Engineering Specialist

/BES

OIL CONSERVATION ENTERPRISES PRODUCTION CO.
RECEIVED

6 DESTA DRIVE, SUITE 3700
P.O. BOX 2760
MIDLAND, TEXAS 79702

'95 SEP 25 AM 8 52

FAX (915) 687-0329

August 31, 1995

(915) 683-2277

RE: STEP RATE TEST DATA
POKER LAKE #43
POKER LAKE (DELAWARE) FIELD
660' FSL & 660' FWL, UNIT LETTER M
SECTION 21, T24S, R31E
EDDY COUNTY, NEW MEXICO
FILE: 400-WF: STEPRATE

New Mexico Oil Conservation Division
811 S. 1st Street
Artesia, New Mexico 88210

Attn: Mr. Tim Gumm

Dear Mr. Gumm,

RECEIVED

SEP 15 1995

OIL CON. DIV.
DIST. 2

Our injection pressure on the Poker Lake #43 is in excess of the maximum allowed by NMOCD Administrative Order SWD-567 (maximum - 880 psi; actual 1150 psi). The injection pressure is higher than expected due to higher reservoir pressures than anticipated plus larger disposal volumes than expected.

On August 24, 1995, a step rate test was run to determine the surface fracture pressure. A maximum surface pressure of 1190 psi @ 1800 BWPD was reached before fracing the well. (See Attachment).

We believe this SRT suggests that injection at 1180 psi surface pressure will not cause fracturing beyond the confines of the Delaware sand completion interval. Therefore, we respectfully request that you authorize a new pressure limitation of 1180 psi for Poker Lake #43.

Sincerely,



John R. Smitherman
Division Production Manager

GEG/pgo



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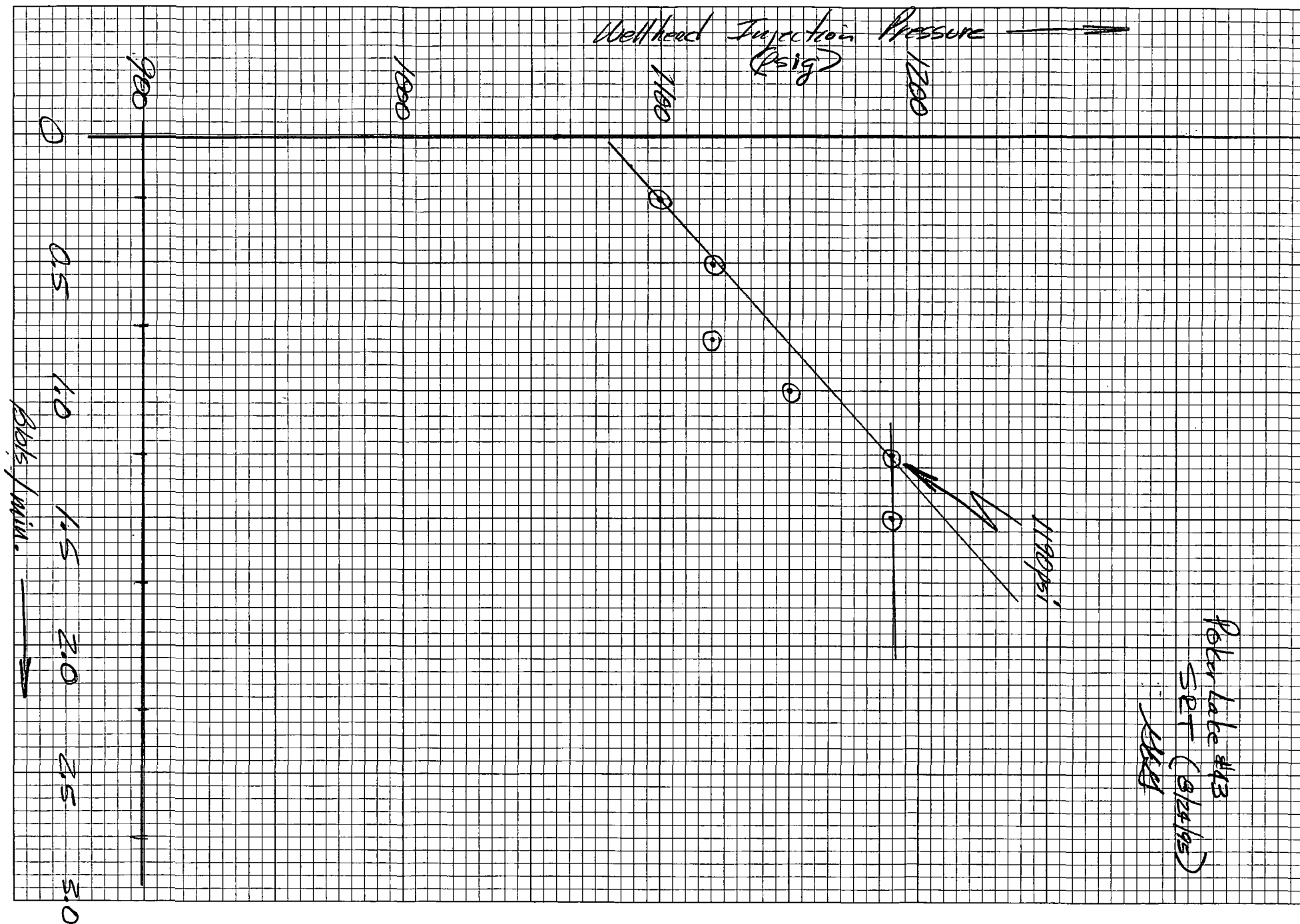
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Small handwritten mark or character near the bottom left corner, below the vertical line.



OIL CONSERVATION
RECEIVED

BASS ENTERPRISES PRODUCTION CO.

6 DESTA DRIVE, SUITE 3700
P.O. BOX 2760
MIDLAND, TEXAS 79702

'95 DEC 11 11:11 AM

FAX (915) 687-0329

(915) 683-2277

November 18, 1995

RE: POKER LAKE #43
STEP RATE TEST CHARTS
FILE: 400-WF: PLU#43.LTR

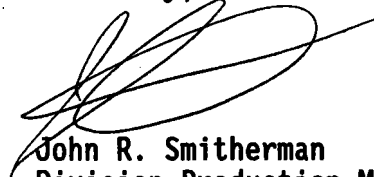
Mr. Ben Stone
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Dear Mr. Stone:

Enclosed for your review are the charts recorded while step rate testing Poker Lake #43. We are also enclosing a injection profile log recorded on the Poker Lake #43 which indicates all injection is confined to the approved injection interval 4404' to 4900'.

Based on this data we respectfully request an increase in our allowable injection pressure to 1180 psi.

Sincerely,



John R. Smitherman
Division Production Manager



GEG/pgg

SUBJECT <p>Poker Lake #43 SRT</p>	DATE <p>11/20/95</p>	DEPARTMENT <p>Ops</p>	PREPARED BY <p>GEG</p>
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Surface Pressure (psig)

