



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

December 4, 1989

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

Kerr-McGee Corporation  
110 N. Marienfeld  
Suite 200  
Midland, TX 79701

Attention: Kelly D. Jamerson

RE: *Injection Pressure Increase  
Hahn Federal Well No. 5  
Chaves County, New Mexico*

Dear Mr. Jamerson:

Reference is made to your request dated October 9, 1989, to increase the surface injection pressure on the Hahn Federal SWD Well No. 5. This request is based on a step rate tests conducted on the well on October 3, 1989. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the 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

Hahn Federal Well No. 5  
Unit K, Section 27, T-7 South  
R-31 East, NMPM, Chaves County,  
New Mexico.

1530 PSIG

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

cc: Oil Conservation Division - Hobbs  
File: SWD-341  
T. Gallegos  
D. Catanach



**KERR-MCGEE CORPORATION**

110 N. MARIENFELD, SUITE 200 • MIDLAND, TEXAS 79701

PHONE

915 688-7000

October 9, 1989

State of New Mexico  
Energy and Mineral Department  
Oil Conservation Division  
Hobbs District Office  
P.O. Box 1980  
Hobbs, New Mexico 88241-1980  
Attention: Jerry Sexton

Re: Hahn Federal #5 (SWD)  
Sec. 27, T7S, R31E  
Chaves County, New Mexico

Gentlemen:

The approved pressure limit on subject well as per Division Order No. SWD-341 is 790 psig. The current injection pressure is 1100 psig.

A steprate test was ran on 10-03-89. This test showed a surface fracture pressure of 1580 psig occurring at a rate of 1.6 BPM. This test was witnessed by Jack Griffin with NMOCC. Attached is a copy of the graph reflecting the steprate test.

Based on the results of the steprate test, it is respectfully requested that the approved pressure limit be increased from 790 psig to 1550 psig.

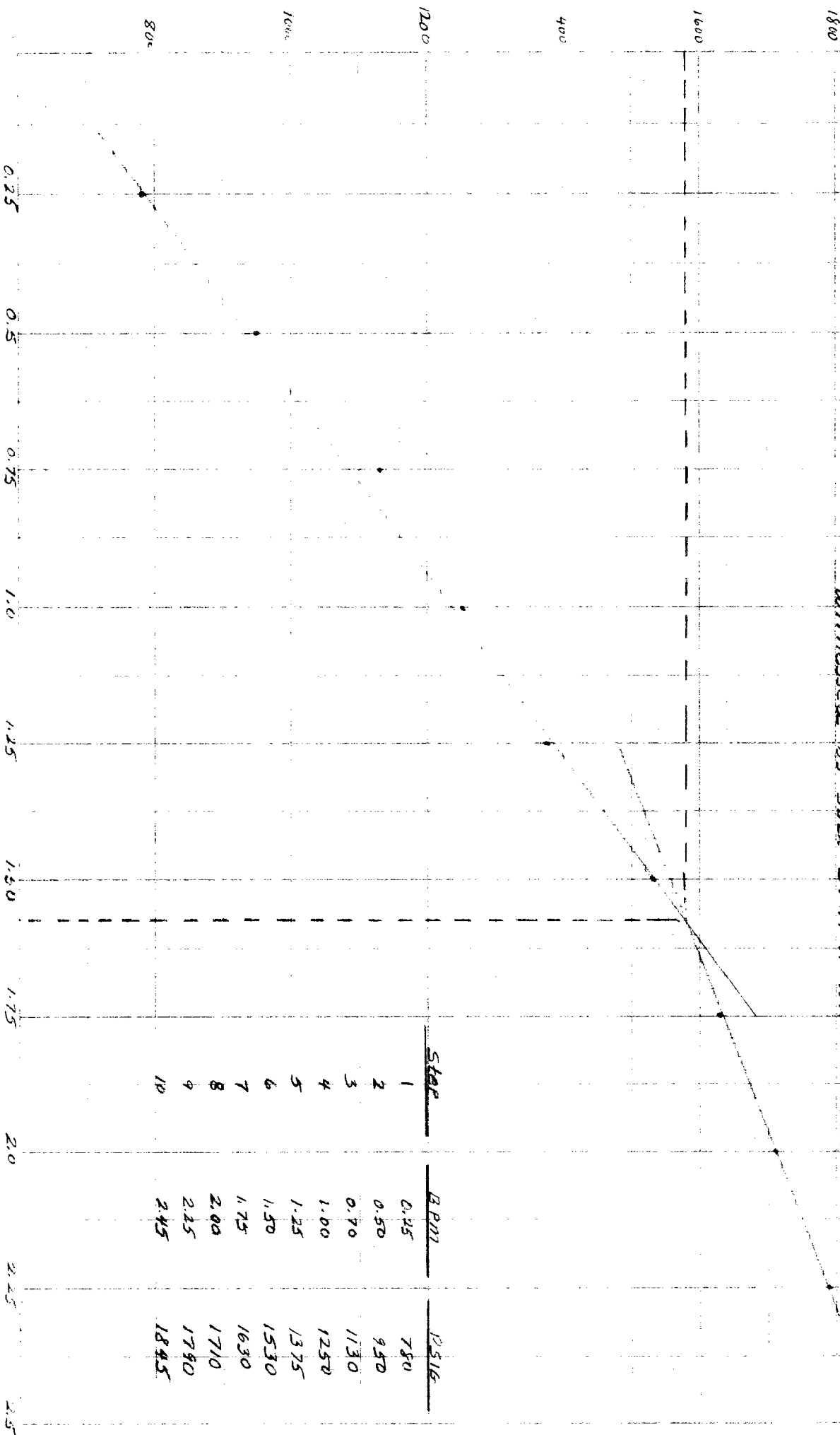
Yours Very Truly,

Kelly D. Jamerson  
District Superintendent

KDJ/jbe  
attachement

HALL FEDERAL NO. 5  
 SEC. 27 T15 R31E  
 CHANDLER COUNTY, NM

STEP RATE TEST  
 DATE 10-3-89 (10:00 AM to 4:00 PM)  
 TEST RUN BY ARNOLD HARRIS with KERN-MILBEE CORP.  
 WITNESSED by JACK GRIFFIN with NMDC



STEP	AROT	PSIG
1	0.45	780
2	0.50	950
3	0.70	1130
4	1.00	1250
5	1.25	1375
6	1.50	1530
7	1.75	1630
8	2.00	1710
9	2.25	1790
10	2.45	1845



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

October 11, 1989

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88240  
(505) 393-6161

OIL CONSERVATION DIVISION  
P.O. BOX 2088  
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Kerr-McGee Corporation	Hahn Federal SWD #5-K	27-7-31
Operator	Lease & Well No. Unit	S-T-R

and my recommendations are as follows:

OK to increase approved pressure limit.

Very truly yours

*Jerry Sexton*  
Jerry Sexton  
Supervisor, District I

/bp

OIL CONSERVATION DIVISION  
RECEIVED  
'89 OCT 12 AM 9 12