Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

March 20, 1986

Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. David Catanack

7.01
INJECTION PRESSURE INCREASE
MOBIL PRODUCING TX & NM, INC.
NORTH VACUUM ABO UNIT
WELL #95
UNIT P, SECTION 26
T-17-S, R-34-E
VACUUM, NORTH (ABO) POOL
LEA COUNTY, NEW MEXICO
ORDER SWD-282, DATED 03-06-85

Gentlemen:

Mobil Producing TX & NM, Inc., respectfully requests authority to increase the injection pressure from 3450 psi (approved by letter dated 11-14-85) to 5000 psig surface pressure. It is Mobil's opinion that this request is justified and should be approved based on the attached step-rate test. This test was witnessed by Jack Griffin of the NMOCD. Disposal is in the Devonian formation at approximately 12,024 feet. As you can see, the test indicates the parting pressure of the Devonian was not reached during the test with a maximum surface pressure of 5800 psi, thus showing that an increase in injection pressure will not result in migration of injection fluid from the Devonian formation.

Your early attention to this matter will be appreciated.

Yours very truly,

G. E. Tate
Env. & Reg. Manager

CCSmith/dwc

Attachment

cc: NMOCD - Hobbs

A:M607970A.CCS

JARREL SERVICES, INC.

POST OFFICE BOX 1654 PHONES 505 393-5396 — 393-8274

HOBBS, NEW MEXICO 88240

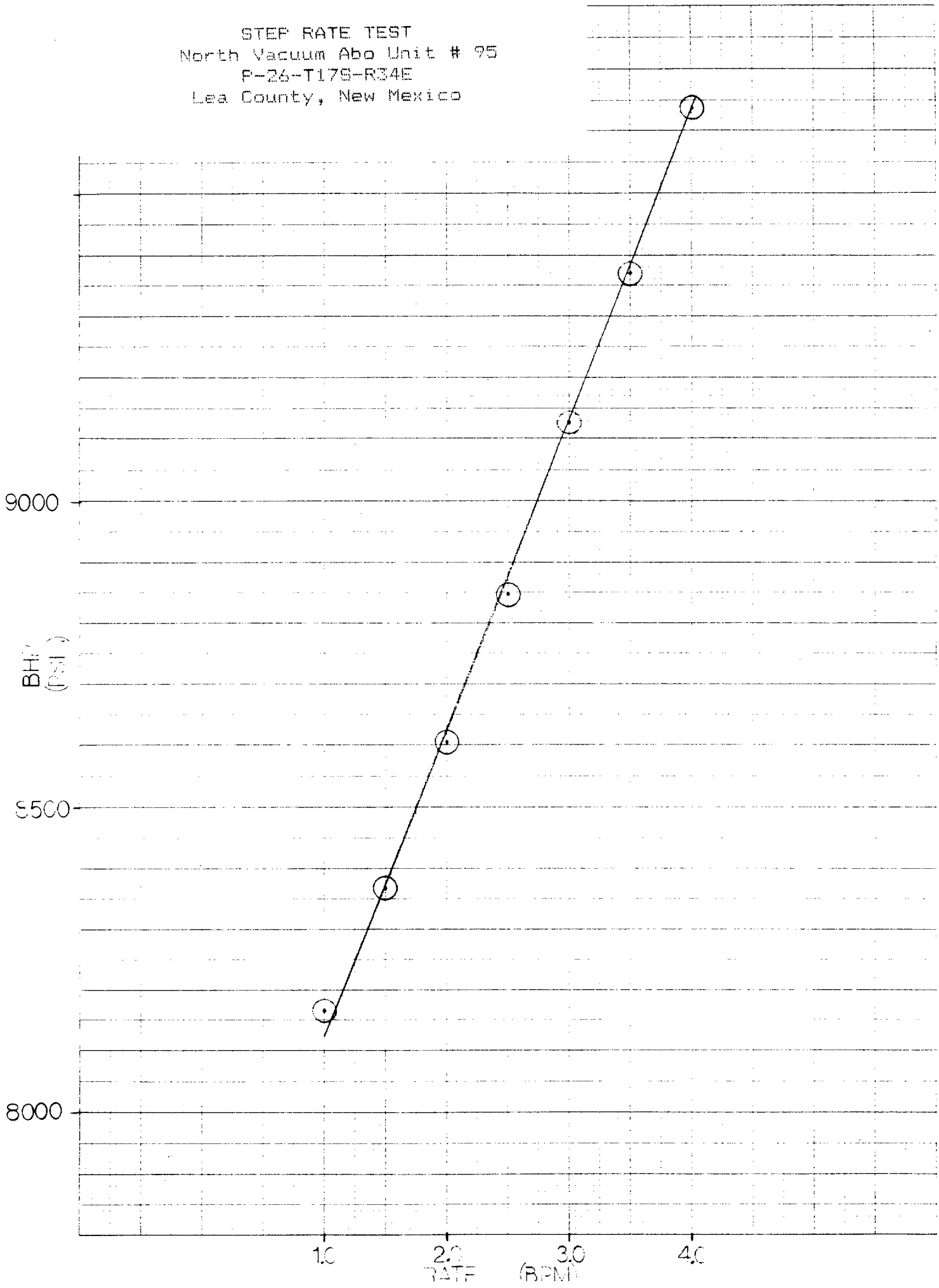
COMPANY: Mobil Producing Texas & New Mexico Inc.

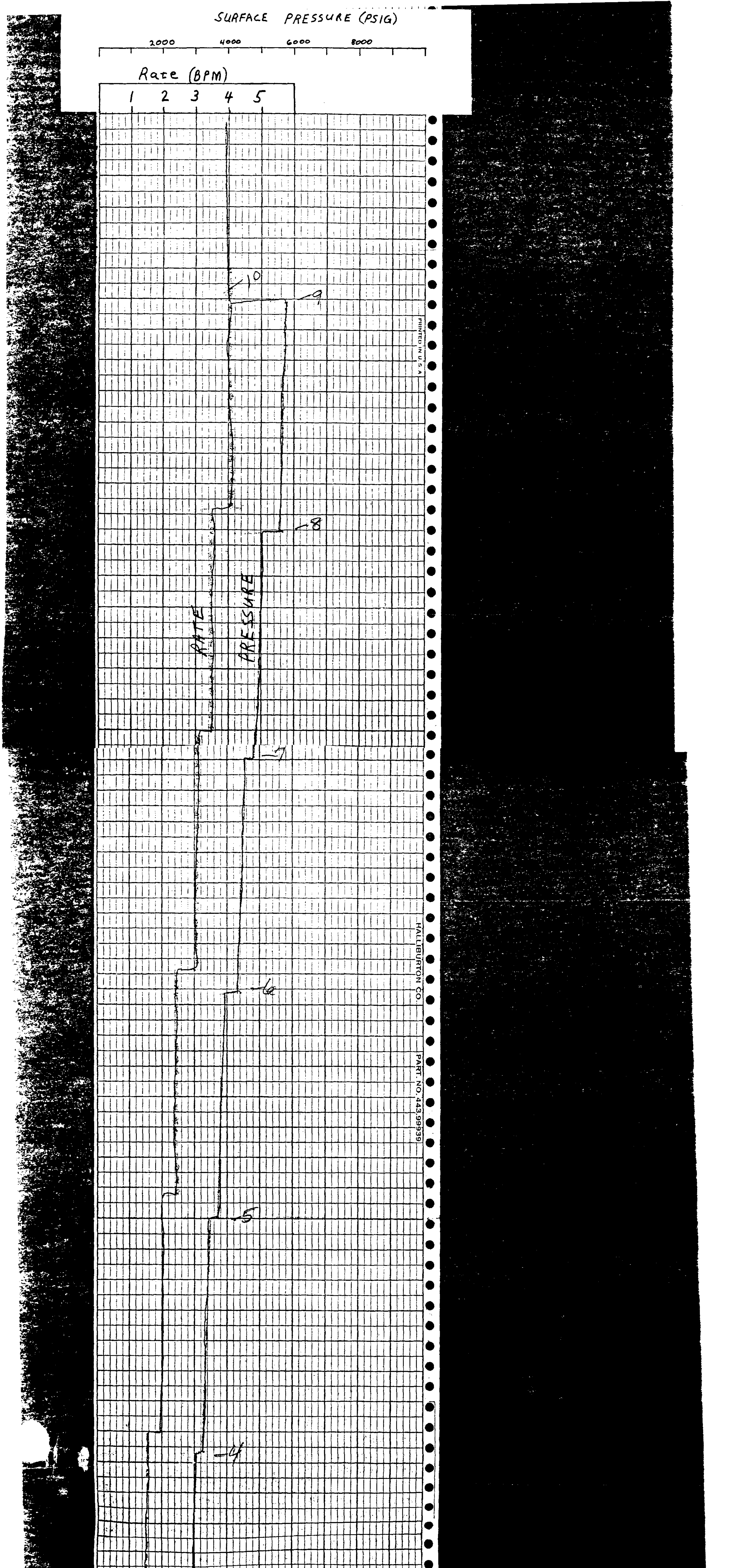
WELL: Salt Water Disposal, No. 95 FIELD: Vacuum - Devonian

CHRONOLOGICAL PRESSURE DATA

DATE	STATUS OF WELL	TIME	ELASPED TIME HRS.	ELASPED TIME MIN.	SURFACE PRESSURE TBG	SURFACE PRESSURE CSG	BHP @ (-) 12100' PSIG
1986							
3/7	Shut in. Run Bombs to 12100'.	9:15 AM	0	00	2195	PKR	7769
	Started 1st Rate Injecting	9:20	0	05	-	-	7769
	"	9:25	0	05	-	-	7865
	"	9:30	0	10	-	-	7937
	Finished 1st Rate & Started 2nd Rate	9:35	0	15	-	-	8018
	Injecting	9:40	0	05	-	-	8059
	"	9:45	0	10	-	-	8113
	Finished 2nd Rate & Started 3rd Rate	9:50	0	15	-	-	8166
	Injecting	9:55	0	05	-	-	8249
	"	10:00	0	10	-	-	8308
	Finished 3rd Rate & Started 4th Rate	10:05	0	15	-	-	8368
	Injecting	10:10	0	05	-	-	8457
	"	10:15	0	10	-	-	8534
	Finished 4th Rate & Started 5th Rate	10:20	0	15	-	-	8605
	Injecting	10:25	0	05	-	-	8694
	"	10:30	0	10	-	-	8765
	Finished 5th Rate & Started 6th Rate	10:35	0	15	-	-	8848
	Injecting	10:40	0	05	-	-	8949
	"	10:45	0	10	-	-	9038
	Finished 6th Rate & Started 7th Rate	10:50	0	15	-	-	9127
	Injecting	10:55	0	05	-	-	9216
	"	11:00	0	10	-	-	9305
	Finished 7th Rate & Started 8th Rate	11:05	0	15	-	-	9370
	Injecting	11:10	0	05	-	-	9465
	"	11:15	0	10	-	-	9548
	Finished 8th Rate & Shut in.	11:20	0	15	-	-	9637
	Shut in	11:21	0	01	-	-	9601
	"	11:22	0	02	-	-	9572
	"	11:23	0	03	-	-	9554
	"	11:24	0	04	-	-	9536
	Pulled Bombs	11:25	0	05	-	-	9518

STEP RATE TEST
North Vacuum Abo Unit # 95
P-26-T17S-R34E
Lea County, New Mexico




SURFACE PRESSURE (PSIG)
2000
4000
6000
8000
Rate (BPM)
1 2 3 4 5
RATE
PRESSURE
RATE
TUBING
HALLIBURTON CO.
PART NO. 463.99939
Mobil
NVUA #95
#224991
3-7-86

50 YEARS

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

1935 - 1985

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

March 25, 1986

Mobil Producing Texas & N.M. Inc.
P. O. Box 633
Midland, Texas 79702

Attention: G. E. Tate

Re: Injection Pressure
Increase North Vacuum Abo
Ut. No. 95
Lea County, New Mexico

Dear Sir:

Reference is made to your request of March 22, 1986 to increase the surface injection pressure on your North Vacuum Abo Unit No. 95 Well. This request is based on a step rate test conducted on the well on March 7, 1986. 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 your surface injection pressure on the following well:

Well & Location	Maximum Injection Surface Pressure
N. Vacuum Abo Ut No. 95 Section 26, T-17S, R-34E Lea County, New Mexico	5000 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 it is endangering any fresh water aquifers.

Sincerely,

R. L. STAMETS
Director

RLS/DRC/et

cc: OCD - Hobbs
File SWD - 282
Donna McDonald