

# Mobil Producing Texas & New Mexico Inc.

MAR 22 1986

March 20, 1986

P.O. BOX 633  
MIDLAND, TEXAS 79702

MIDLAND DIVISION

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.

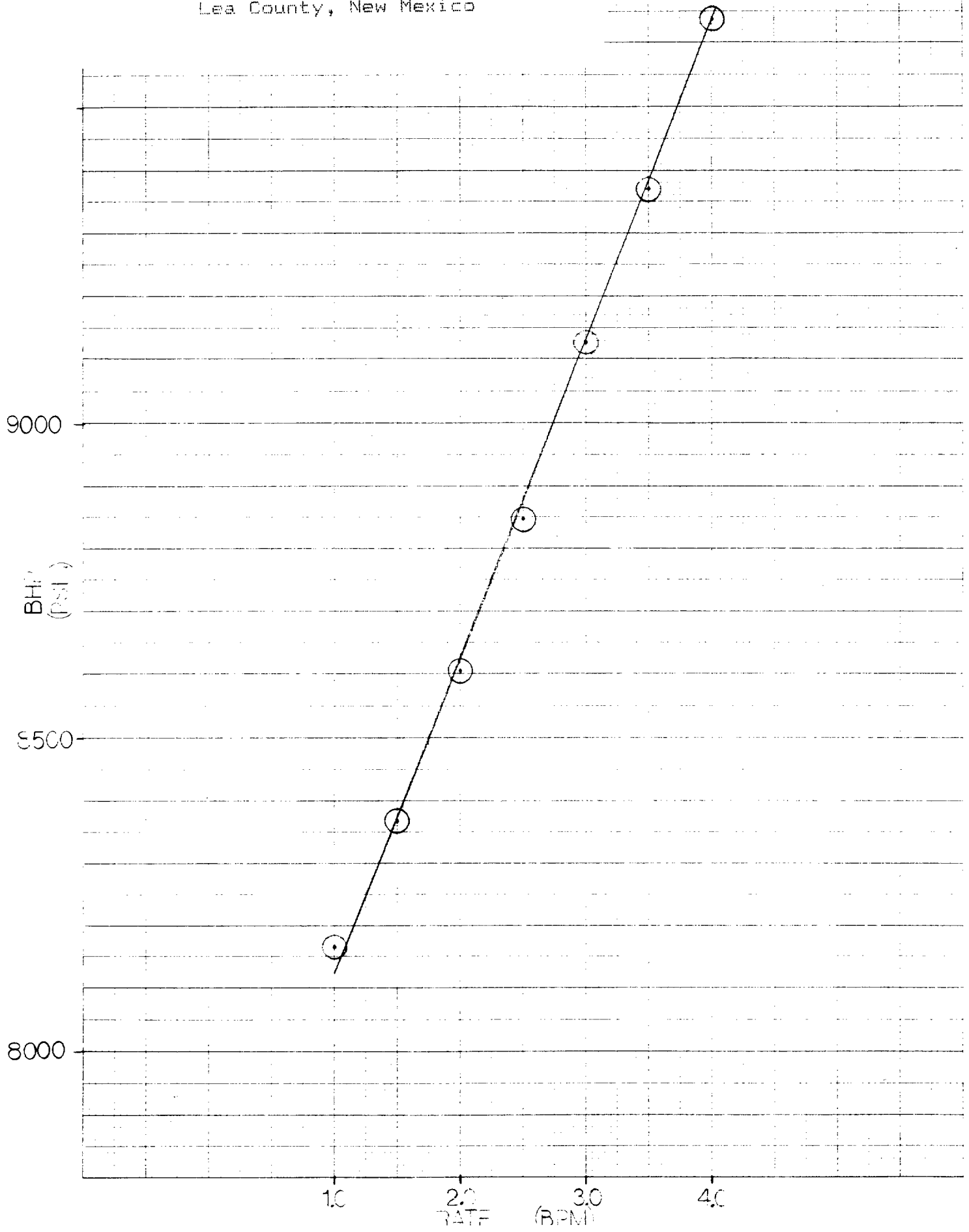
WELL: Salt Water Disposal, No. 95

FIELD: Vacuum - Devonian

## CHRONOLOGICAL PRESSURE DATA

DATE	STATUS OF WELL	TIME	ELAPSED TIME		SURFACE PRESSURE		BHP @ ( - )	
			HRS.	MIN.	TBG	CSG	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  
F-26-T179-R34E  
Lea County, New Mexico

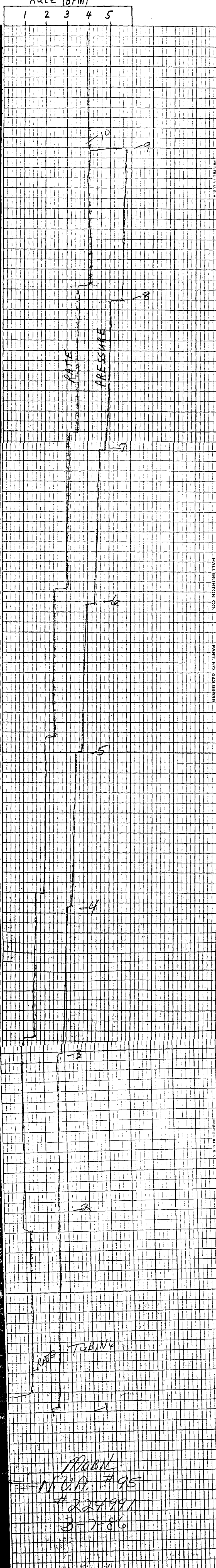


# SURFACE PRESSURE (PSIG)

2000 4000 6000 8000

Rate (BPM)

1 2 3 4 5



TUBING

2000

4000

6000

8000

10000

12000

14000

16000

18000

20000

22000

24000

26000

28000

30000

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TONEY ANAYA  
GOVERNOR

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

March 25, 1986

50 YEARS



1935 - 1985

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

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:

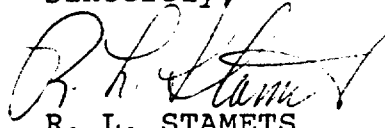
Reference is made to your request of March 22, 1986 to increase the surface injection pressure on your North Vacuum Abo Unit No. 95 Well. This request is based on a step rate test conducted on the well on March 7, 1986. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

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

<u>Well &amp; Location</u>	<u>Maximum Injection Surface Pressure</u>
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,

A handwritten signature in cursive script, appearing to read "R. L. Stamets", with a long horizontal flourish extending to the right.

R. L. STAMETS  
Director

RLS/DRC/et

cc: OCD - Hobbs  
File SWD - 282  
Donna McDonald