



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

September 9, 1986

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

Marbob Energy Corporation
P. O. Drawer 217
Artesia, New Mexico 88211-0217

Attn: Carolyn Purcella

Re: Injection Pressure Increase
Brainard Federal No. 8 Well
Eddy County, New Mexico

Dear Sir:

Reference is made to your request of August 21, 1986 to increase the surface injection pressure on your Brainard Federal No. 8 Well. This request is based on a step rate test conducted on the well on December 2, 1985. 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 & Location</u>	<u>Maximum Injection Surface Pressure</u>
Brainard Federal No. 8 Unit O, Sec. 34, T-18S, R-29E Eddy County, New Mexico.	870 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.

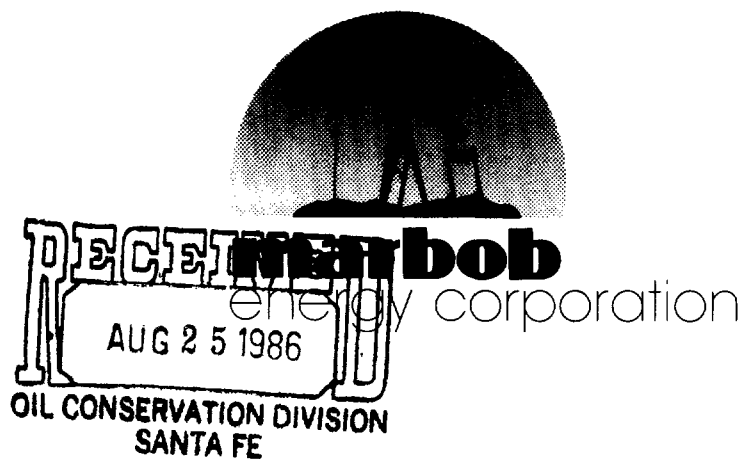
Sincerely,

A handwritten signature in dark ink, appearing to read "R. L. Stamets", with a stylized flourish at the end.

R. L. STAMETS
Director

RLS/DRC/et

cc: Oil Conservation Division - Artesia
File WFX-166
D. Catanach
Donna McDonald



August 21, 1986

Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

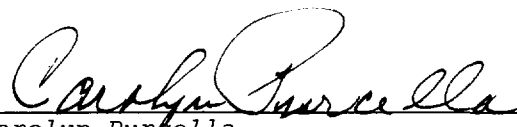
Attention: Mr. David Catanach

Gentlemen:

We are requesting administrative approval to increase the injection pressure on our Brainard Fed. #8 well, located 5' FSL 2635' Sec. 34-T18S-R29E, Eddy County, as reflected by results of the step rate test enclosed.

Thank you.

Very truly yours,


Carolyn Purcella
Production Department

cp

Encl.

cc: Oil Conservation Div.
P.O. Drawer DD
Artesia, N.M. 88210

Bureau of Land Management
P.O. Box 1778
Carlsbad, N.M. 88220

B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

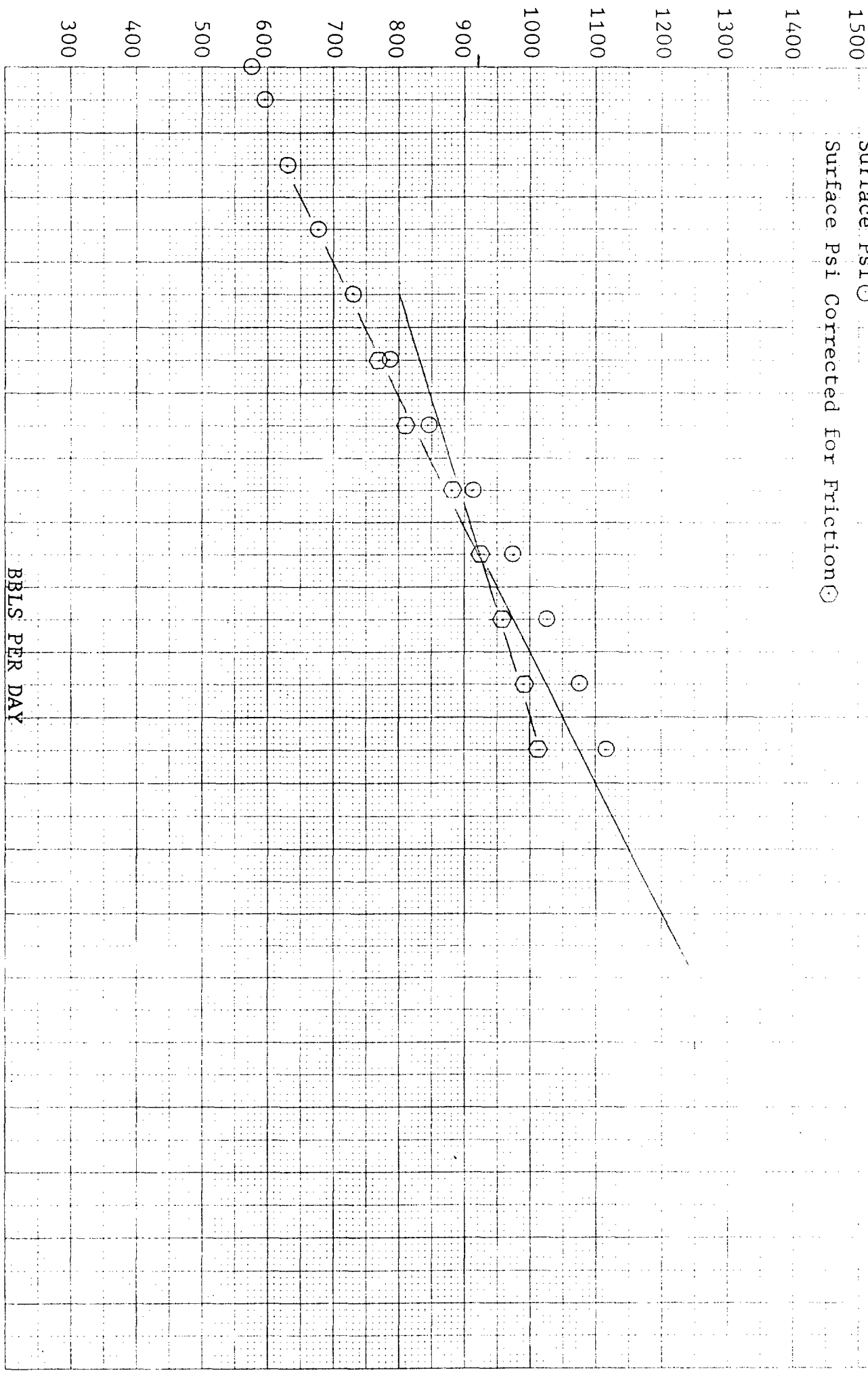
Hobbs, New Mexico 88240

Company Maribob Energy Corporation						Unit	
Test Date 12-2-85						Lease Brainard Tract #3 Fed	
Total Depth		Plug Back TD		Elevation		Well # 8	
Csg size 4 1/2	Wt	d	Set at	Perfs: From 2110	To 2956	Sec Twp-Blk Rge	
Tbg size 2 3/8	Wt	d	Set at	Perfs: From	To	County Eddy State NM	
Producing thru			Packer set at			Co. Rep Wade White	
Time of Reading	Elap Time Hrs.	Well Information					Remarks
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	
12:40		Shut in		574		1567	Bomb @ 2000' @ 12:38
12:45	Start	100		574		1567	Can't get past 2068'
12:50		100		583		1576	Exstrapulate BHP to 2619'
12:55		100		590		1581	Shut in = 1875
13:00	:15	100		595		1586	1894
							Gradient = .498
13:05		300		610		1601	
13:10		300		623		1612	
13:15	:30	300		629		1622	1930
13:20		500		653		1641	
13:25		500		666		1656	
13:30	:45	500		677		1669	1977
13:35		700		703		1689	
13:40		700		728		1705	
13:45	1:00	700		730		1718	2026
13:50		900		754		1736	Start Pumping
13:55		900		765		1754	
14:00	1:15	900		783		1768	2076
14:05		1100		813		1787	
14:10		1100		833		1802	
14:15	1:30	1100		844		1813	2121
14:20		1250		865		1826	
14:25		1250		876		1841	
14:30	1:45	1250		883	860	1853	2161
Clean filter system - Try to restart test						End Test - Out of	
15:00	Restart Test			830		1813	Injection system
15:05		1300		844		1835	
15:10		1300		873		1853	
15:15		1300		910	887	1880	2188
Stop test - wait for kill truck							
Restart test with kill truck						1810	
16:25		1300		820		1810	
16:30		1300		890		1839	
16:35		1300		900		1850	
16:40		1300		915	882	1880	2188

Hobbs, New Mexico 88240

Company Maribob Energy Corporation						Test Date 12-2-85		Unit	
Total Depth		Plug Back TD		Elevation		Lease Brainard Tract #3 Fed			
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Tbg size 2 3/8		Wt	d	Set at	Perfs: From To	Sec	Twp-Blk	Rge	
Producing thru						Packer set at		Co. Rep Wade White	
Time of Reading	Elap Time Hrs.	Rate BBLS Per Day	Total BBLS Per Rate	Well Information			Remarks		
				Surface PSIG	Surface PSI Cor for Friction	BHP			
16:45		1500		952		1891			
16:50		1500		962		1904			
16:55		1500		975	923	1916	2224		
17:00		1700		1005		1931			
17:05		1700		1015		1942			
17:10		1700		1025	959	1952	2260		
17:15		1900		1054		1965			
17:20		1900		1065		1974			
17:25		1900		1073	990	1983	2291		
17:30		2100		1093		1994			
17:35		2100		1100		2003			
17:40		2100		1115	1017	2010	End Test - 2318		
ISIP				1020		1998	2306		
17:42	5 minute fall off			1016		1997	2305		
17:43				1014		1994	2302		
17:44				1013		1992	2300		
17:45				1011		1990	2298		
		</							

Surface Psi ○
Surface Psi Corrected for Friction ○



A hand-drawn sketch on graph paper. The sketch consists of a vertical line on the right side of the page. From this vertical line, several horizontal segments extend to the left at different heights. These segments are connected by short vertical lines, creating a stepped or staircase-like profile. The segments are located at approximately the top, middle, and bottom of the vertical line's extent. The drawing is done in black ink on a white background with a light gray grid.