

March 26, 1985

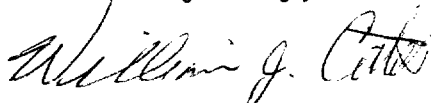
State of New Mexico
Energy & Minerals Department
Oil Conservation Division
P.O. Box 2088
Sante Fe, New Mexico 87501

RE: Step Rate Test and request
for increase in injection
pressure for El Paso
Exploration Co., Moberly "C"
No. 3 Injection Well (order
no. WFX-537), Moberly Rhodes
Waterflood Project, Rhodes
(Yates-Seven Rivers) Pool,
Lea County, New Mexico

Gentlemen:

Water injection was started March 4, 1985 in the above subject well at the rate of 200 bbls per day at 600 psi surface pressure. Injection rate rapidly declined to 39 BWPD with 650 psi surface pressure by March 9, 1985. The well was shut in on March 17, 1985 and the attached Step Rate Test was performed on March 18, 1985. The maximum surface pressure during the Step Rate Test was 920 psi and charts did not indicate any pressure parting during this test. We request that our maximum injection pressure be raised from 650 psi to 920 psi.

Yours very truly,



William J. Cates
Senior Production Engineer

Attachment

WJC:1a

cc Oil Conservation Division,
District Office, Hobbs NM

B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company <u>El Paso Exploration</u> Test Date <u>3-18-85</u>						Unit
Total Depth <u>3363'</u> Plug Back TD <u>3362'</u> Elevation <u>2976' GL</u>						Lease <u>Mobley C</u>
Csg size <u>5 1/2"</u> Wt <u>17#</u> d Set at Perfs: From <u>3184'</u> To <u>3316'</u>						Well # <u>3</u>
Tbg size <u>2 3/8"</u> Wt d Set at Perfs: From To						Sec Twp-Blk Rge
Producing thru Packer set at <u>2944'</u>						County <u>Lea</u> State <u>NM</u>
						Co. Rep <u>Bill Cates</u>

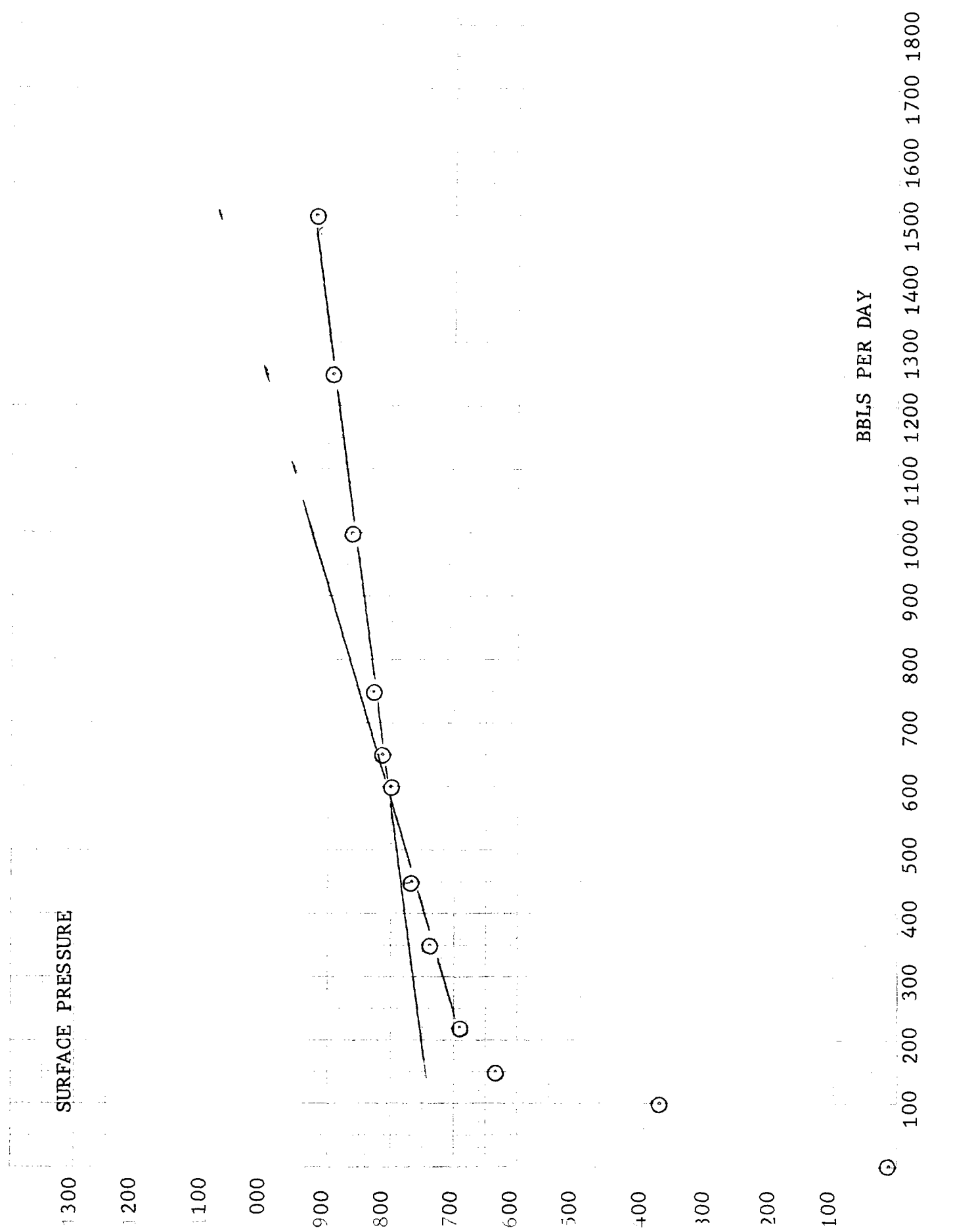
Time of Reading	Elap Time Hrs.	Well Information					Remarks
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	
		Shut In		10			
9:15	start			10			
9:20		100		33			
9:25		100		84			
9:30	15	100	1.0	375			
9:35		150		592			
9:40		150		626			
9:45	30	150	1.6	635			
9:50		220		663			
9:55		220		682			
10:00	45	220	2.3	690			
10:05		350		722			
10:10		350		734			
10:15	1 hr	350	3.6	736			
10:20		450		751			
10:25		450		760			
10:30	15	450	4.7	766			
10:35		600		788			start pumping at 10:35
10:40		600		793			
10:45	30	600	6.2	800			
10:50		650		806			
10:55		650		811			
11:00	45	650	6.7	814			
11:05		750		823			
11:10		750		826			
11:15	2hr	750	7.8	828			
11:20		1000		847			
11:25		1000		856			11:27 change to 1 1/2" TM
11:30	15	1000	10.4	863			

Step Rate Test

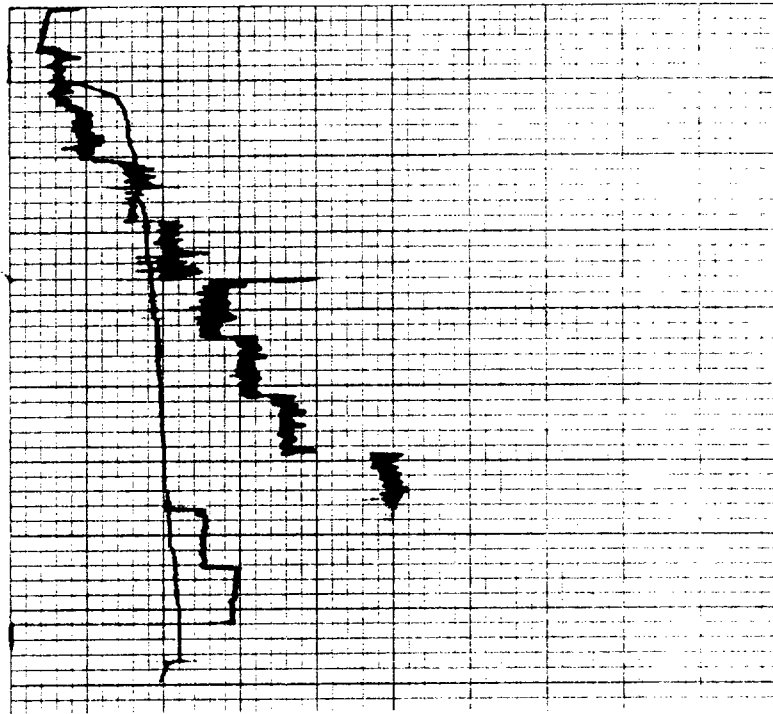
Hobbs, New Mexico 88240

				Unit
Company <u>El Paso Exploration</u>		Test Date <u>3-18-85</u>		Lease <u>Mobley C</u>
Total Depth <u>3363'</u>		Plug Back TD <u>3362'</u>	Elevation <u>2976'</u> GL	Well # <u>3</u>
Csg size <u>5½"</u>	Wt <u>17#</u>	d	Set at	Perfs: From <u>3184'</u> To <u>3316</u>
Tbg size <u>2 3/8"</u>	Wt	d	Set at	Perfs: From To
Producing thru				Packer set at <u>2944</u>
				Sec Twp-Blk Rge
				County <u>Lea</u> State <u>NM</u>
				Co. Rep <u>Bill Cates</u>

[illegible]



El Paso Exploration
Mobley C #3
3-18-85



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