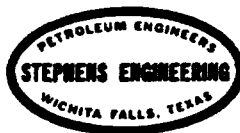


TELEPHONE - 817-723-2188



POST OFFICE BOX - 2249

WICHITA FALLS, TEXAS
76307

April 23, 1985

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

Attn: Gilbert P. Quintana
U.I.C. Director

Re: Marlisue Queen Unit
Waterflood Case No. 8002/Order No. R-7422
Injection Pressure Increase

Dear Mr. Quintana:

Stephens Engineering has reviewed the step rate test performed by B & D Well Testers on March 26, 1985 on Marlisue well No. 2-6. It is the opinion of Stephens Engineering that the fracture pressure established by B & D Well Testers of 1,060 psi wellhead pressure is probably low due to the fact that the step rate test began with the injection well on a vacuum. It should be noted that fracture gradients are directly related to pore pressure, which in the case of this well was at a minimum due to the fact that fillup of the near wellbore storage area had not been established prior to the step rate test. Without this fillup the near wellbore area will have a minimum pore pressure and therefore an abnormally low fracture gradient until such time that the injection well reaches fillup. This phenomenon is easily illustrated when step rate tests are run concurrently on producing and injection wells in the same reservoir. The producing well, due to the decreased pore pressure caused by production, will show an extremely low fracture gradient whereas the injection well will show a much higher fracture gradient due to increased pore pressure caused by injection. This phenomenon can further be proved by the fact that fracture gradients increase as waterfloods become more mature. The reason is the same. Increased injection causes an increase in fillup and therefore an increase in pore pressure which is directly related to an increase in the fracture gradient.

In conclusion, Stephens Engineering is of the opinion that step rate tests should be run on wells which have stabilized rates and stabilized pressures below a minimum calculated fracture gradient. This will allow both the step rate test to be started below a minimum fracture gradient and more closely establish a true fracture gradient in the reservoir due to the higher pore pressure which occurs due to injection.

If you have any questions concerning this information, please do not hesitate to contact us at 817-723-2166.

Yours very truly,

STEPHENS ENGINEERING

A handwritten signature in black ink, appearing to read 'DeWayne Travelstead', with a stylized flourish at the end.

DeWayne Travelstead

DT/dk

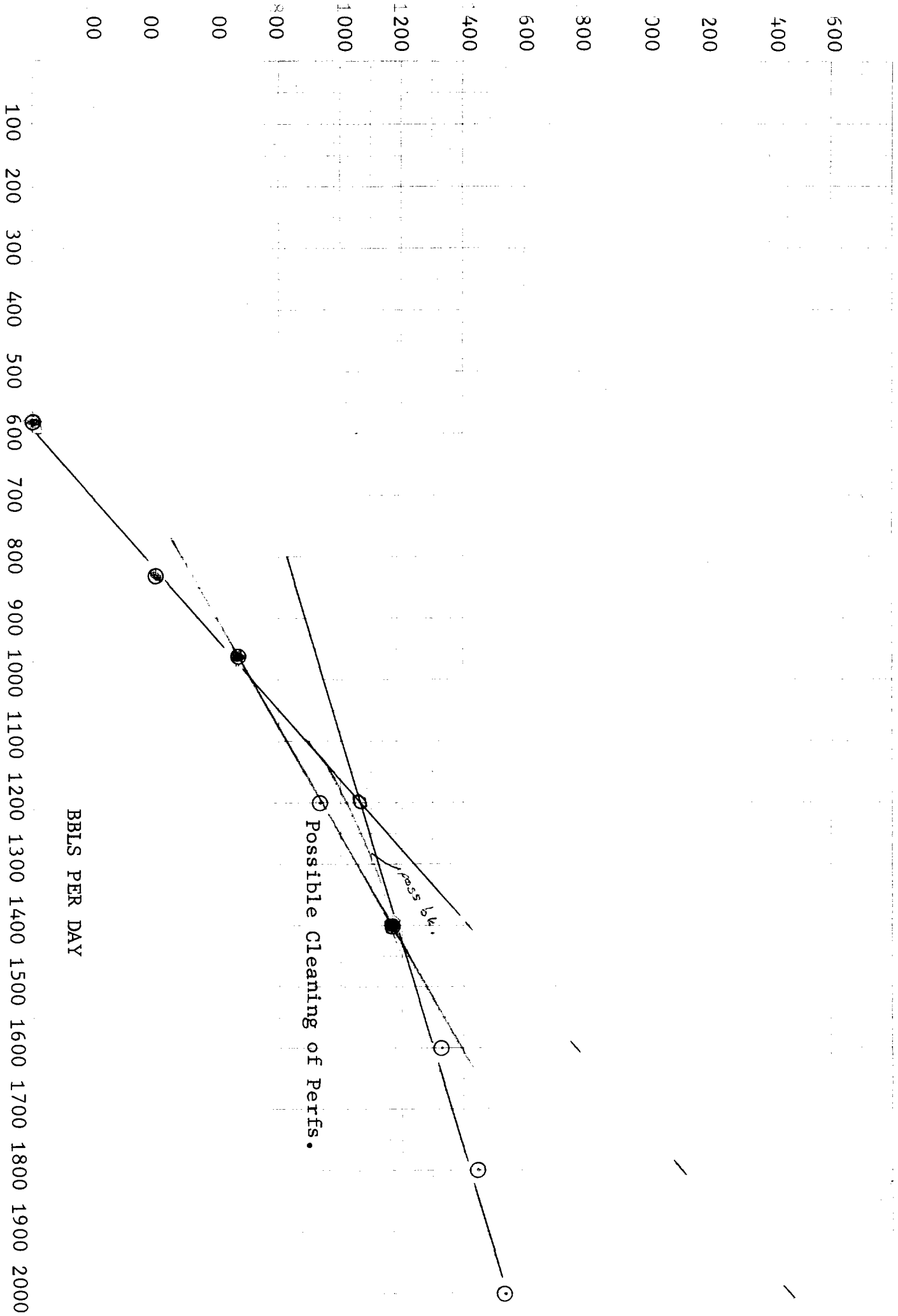
B & D WELL TESTERS

Step Rate Test

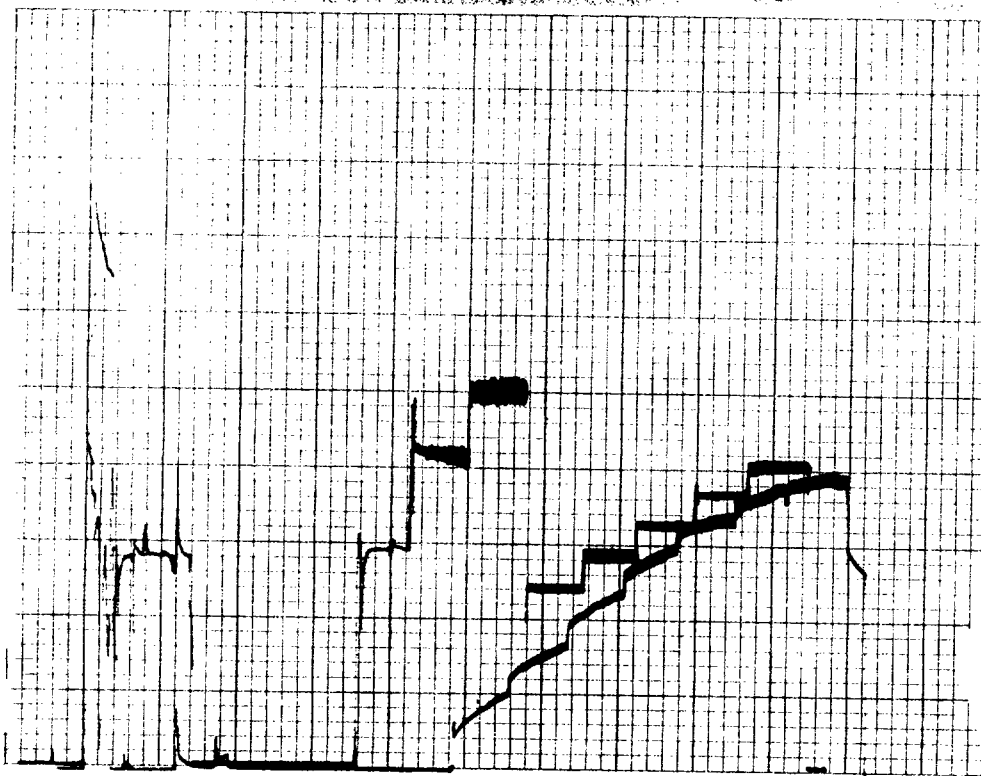
Phone (505) 397-3914

Hobbs, New Mexico 88240

Company McClellan Oil Corp.						Test Date 3-26-85		Unit	
Total Depth 1944'		Plug Back TD		Elevation		Lease Marlisue Tract #2			
Csg size 4 1/2"		Wt	d	Set at	Perfs: From 1909' To 1917'		Well # 6		
Tbg size		Wt	d	Set at	Perfs: From To		Sec	Twp-Blk	Rge
Producing thru						Packer set at 1856'		County Chaves State NM	
						Co. Rep Cleo Brown			
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			
10:35	shut in			0			Bombs at 1913' @10:35		
10:40	start			0			surface psi vaccum bottom		
10:45		580		0			hole-surface readout not		
10:50		580		0			working properly-calculate		
10:55	15	580	6.0	0			surface psi only		
11:00		830		250					
11:05		830		355					
11:10	30	830	8.6	400					
11:15		960		557					
11:20		960		620					
11:25	45	960	9.9	668					
11:30		1200		835			Change 1 1/2" TM at 11.30		
11:35		1200		895					
11:40	1hr	1200	12.5	935					
11:45		1400		1095					
11:50		1400		1135					
11:55	15	1400	14.6	1165					
12:00		1600		1290					
12:05		1600		1320					
12:10	30	1600	16.6	1330					
12:15		1800		1426					
12:20		1800		1462					
12:25	45	1800	18.7	1445					
12:30		2000		1520					
12:35		2000		1536					
12:40	2hr	2000	20.8	1528					
ISIP				1175					
12:41	5 minute fall off			1140					
12:42				1110					
12:43				1090					
12:44				1080					
12:45				1060					



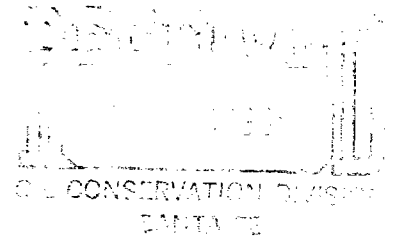
McCLELLAN OIL CORP.
MARLISUE TRACT 2 #6
3-26-85





McClellan Oil Corporation

April 30, 1985



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

Attention: Gilbert P. Quintana
UIC Director

Re: Marlisue Queen Unit
Waterflood Case No. 8002/
Order No. R-7422
Injection Pressure Increase

Dear Mr. Quintana:

In response to your letter of March 14, 1985, we conducted a step-rate test on the Marlisue Queen Tract 2, Well No. 6. The test was conducted by B & D Well testers from Hobbs, New Mexico and was witnessed by Mike Stubblefield. Also, a bottom hole pressure guage was run but failed to record, therefore, surface pressures are only available.

Enclosed is the data from the step-rate test that you requested. B & D Well Testers plotted the frac pressure at 1060 psi WHP, whereas, I plotted the frac pressure at 1280 psi WHP. It is evident that the requested 1000 psi wellhead injection pressure will not result in fracturing of the Queen Formation in this unit.

Therefore, we request that the referenced Order No. R-7422 limiting injection pressure to .2 psi per foot be revised to read that the maximum wellhead pressure be 1000 psig.

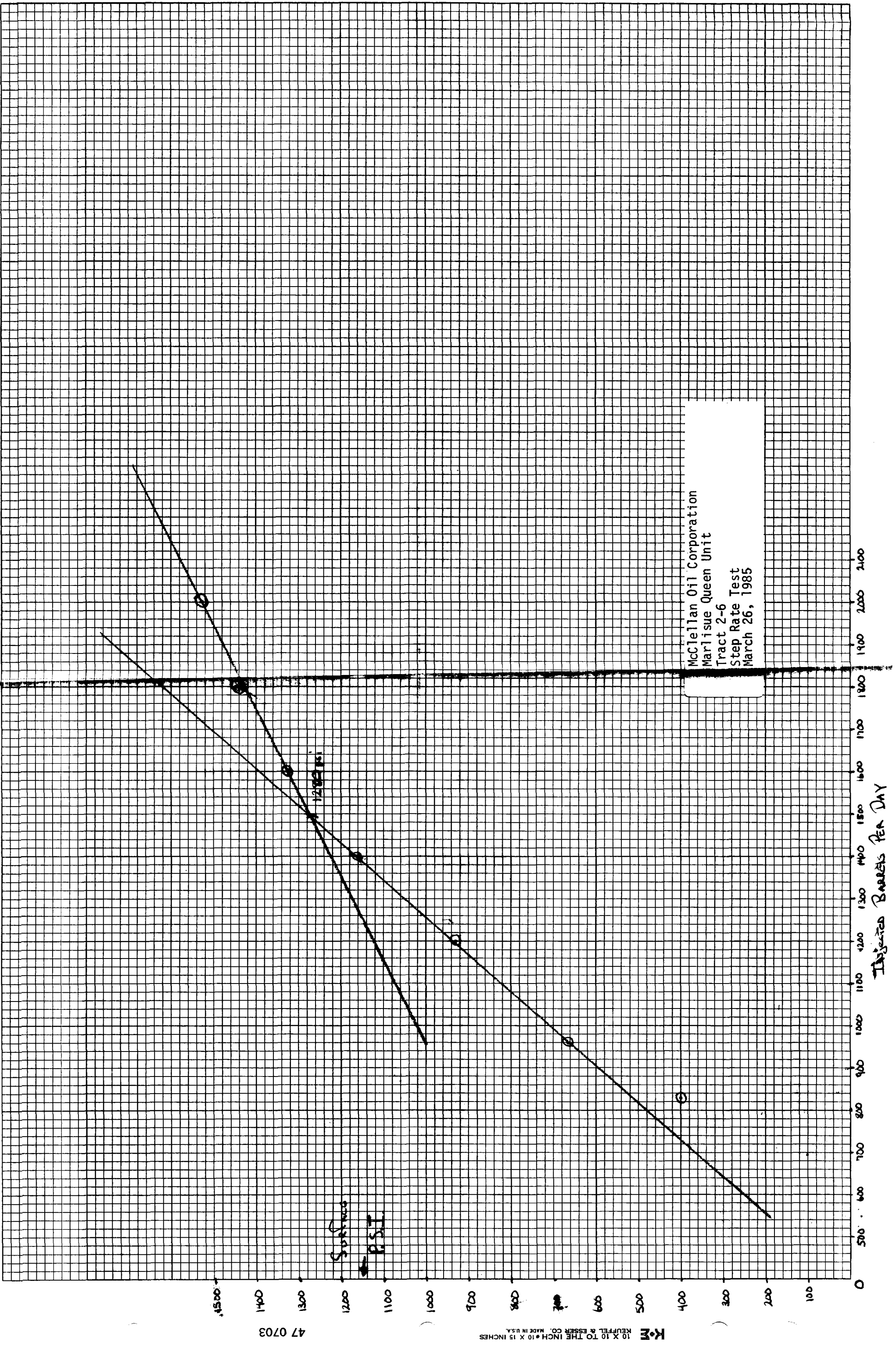
Sincerely yours,

Paul Ragsdale
Operations Manager

cc file

As per McClellans request to inject @ 1000 psi!
the step rate test on the McElwe Tr. 2#6 3-26-85
indicates a break @ 1080 as plotted. A low pressure
value of 935 is indicated as possible cleaning of perforations,
w/ the low values implied and the upper ~~1000~~ pressure
considered a break could have occurred @
1020 psi.

ABrooks.



McClellan Oil Corporation
Marliese Queen Unit
Tract 2-6
Step Rate Test
March 26, 1985

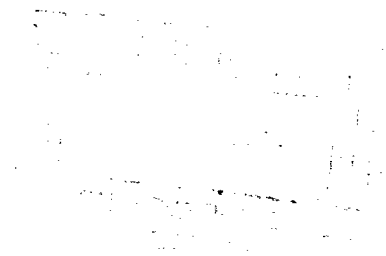
Thousands Barrels Per Day

47 0703

K&E
10 X 10 TO THE INCH • 10 X 15 INCHES
KEUPFEL & ESSER CO. MADE IN U.S.A.



McClellan Oil Corporation



May 1, 1985

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

Attention: Gilbert P. Quintana

Re: Tract 1-4
Sulimar Queen Unit Waterflood
Chaves County, New Mexico

Dear Mr. Quintana:

The referenced well in the Sulimar Queen Unit, Tract 1-4, located 2310 FSL & 2310 FWL Section 24-T15S-R29E is presently shut-in waiting for your approval to inject. I submitted the requested information on a C-108 form on March 19, 1985. We have not received a reply or a request for further information concerning this well. Please advise me if you did not receive the information or if approval to inject has been obtained.

Sincerely yours,

Paul Ragsdale
Operations Manager

cc: OCD Artesia

PR/cpt