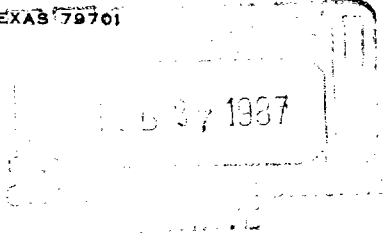


TAMARACK PETROLEUM COMPANY, INC.



1485 ONE FIRST CITY CENTER
MIDLAND, TEXAS 79701

TELEPHONE: 683-5474



February 25, 1987

State of New Mexico
Energy and Mineral Department
Oil Conservation Division
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

Attention: David Catanach

RE: Order No. WFX 546 and No. R-3383
South Pearl Queen Unit Waterflood
Lea County, New Mexico

Dear Sir:

Tamarack Petroleum Co., Inc. has performed step rate tests on unit injection wells #15 and #25. We discovered parting pressures of 1360 PSIG and 1550 PSIG, respectively, as measured by wellhead pressures. Attached are copies of the field data and pressure vs. rate plots for each well.

Tamarack, hereby, requests an increase of maximum wellhead pressures from the current 990 PSIG as set forth in order No. WFX-546. Please contact me at the above address if there are any questions concerning this matter.

Very truly yours,

A handwritten signature in cursive script, reading "Randy A. McClay".

Randy A. McClay
Engineering Manager

mt
enclosure

cc: Hobbs District Office - Jerry Sexton - Division Supervisor

B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company TAMARACK PETE CORP						Test Date 2-23-87		Unit
Total Depth 5041		Plug Back TD 5012		Elevation		Lease SOUTH PEARL QUEEN		
Csg size 5 1/2		Wt	d	Set at	Perfs: From 4888	To 5000'	Well # 15	
Tbg size 2 3/8		Wt 12	d	Set at	Perfs: From	To	Sec	Twp-Blk Rge
Producing thru						Packer set at		County State
Co. Rep								
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		
10:20	540	150		1220				
10:25		150		1220				
10:30		150		1235				
10:35		150		1240				
10:40	1:15	150		1245				
10:45		300		1265				
10:50		300		1275				
10:55	1:30	300		1280				
11:00		450		1310				
11:05		450		1320				
11:10	1:45	450		1325				
11:15		600		1355				
11:20		600		1365				
11:25	1:42	600		1370				
11:30		750		1375				
11:35		750		1380				
11:40	1:15	750		1390				
11:45		900		1400				
11:50		900		1405				
11:55	1:30	900		1410				
12:00		1050		1435				
12:05		1050		1445				
12:10	1:45	1050		1445				
END TEST								
12:11	ISIP			1360				
12:12	7-minute Fall off			1290				
12:13				1285				
12:14				1280				
12:15				1280				

TANKPAC Petr. Corp.

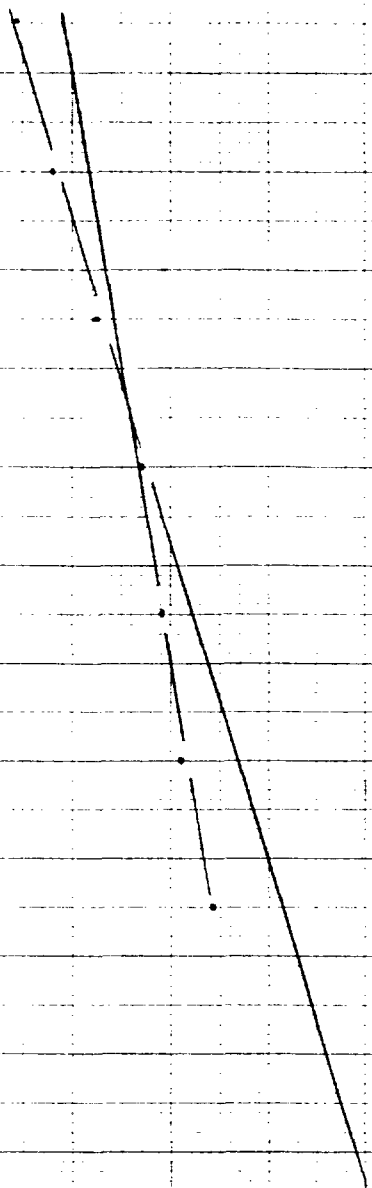
SOUTH PEARL QUEEN - # 15

2-23-87

NO. 4400 LPH

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800

BUPID



B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company <u>TAMARACK PETROLEUM CORP.</u>						Test Date <u>2-23-87</u>		Unit
Total Depth <u>5063'</u>		Plug Back TD <u>5052'</u>		Elevation		Lease <u>SOUTH PEARL QUEEN</u>		
Csg size <u>4 1/2</u> Wt <u>d</u>		Set at		Perfs: From <u>5020</u> To <u>5028</u>		Well # <u>25</u>		
Tbg size <u>2 3/8</u> Wt <u>PC</u>		Set at		Perfs: From <u></u> To <u></u>		Sec <u></u> Twp-Blk <u></u> Rge <u></u>		
Producing thru						Packer set at		Co. Rep
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		
7:20 AM	Start			1060				
7:25	5 min	100		1060				
7:30		100		1080				
7:35		100		1085				
7:40	15	100		1090				
7:45		300		1130				
7:50		300		1140				
7:55	30	300		1145				
8:00		500		1205				
8:05		500		1225				
8:10	45	500		1240				
8:15		700		1325				
8:20		700		1350				
8:25	1 Hr	700		1370				
8:30		900		1460				
8:35		900		1480				
8:40	1:15	900		1490				
8:45	INJECTION System Down							
8:55	RESTART @ 900 BPD			1260				
8:59		900		1490				
9:00	RESTART @ 1100 BPD			1490				
9:05		1100		1565				
9:10		1100		1580				
9:15		1100		1585				
Down for 10 minutes - Restart @ 1100 BPD								
9:30		1250		1620				
9:35		1250		1630				
9:40		1250		1635				
END TEST - OUT OF INJECTION PRESSURE								
9:41	ISIP			1770				
9:42	5-minute fan off			1420				
9:43				1360				
9:44				1330				
9:45				1325				

TAIWAKEE PERK COND.

SOUTH PEARL QUEEN. # 25

2.23.87

0 4 4 0 0 0 4 4 0 0 0 0

