SWD-587

PDEV0020900587

February 12, 1996

Burnett Oil Company, Inc.
801 Cherry Street, Suite 1500
Ft. Worth, Texas 76102-6869

Attn: Mr. James H. Arline

RE: Injection Pressure Increase Jackson 'B' Well No. 23, Eddy County, New Mexico

Dear Mr. Arline:

Reference is made to your request dated January 4, 1996 to increase the surface injection pressure on the above referenced well. This request is based on a step rate test conducted on December 12, 1995. 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 the surface injection pressure on the following well:

Well and Location	Maximum Surface Injection Pressure
Jackson 'B' Well No.23, Unit Letter J, Section 24	1265 PSIG
Located in Township 17 South, Range 30 East, Eddy County, New Mexico.	

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 is endangering any fresh water aquifers.

Sincerely,

William J. LeMay
Director

WJL/BES

cc: Oil Conservation Division - Artesia
Files: SWD-587; PSI-X 3rd QTR-96

PSI-X WIK

6666

OIL CONSERVATION DIVISION
RECEIVED

'96 JAN 4 AM 8 52

January 2, 1996

New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505
Attn: Mr. David Catanach

Re: Step rate injection test
1865 Gissler B #16 Unit L, 1980'FSL, 660'FNL, Sec. 11-T17-R30E 573
1165 Gissler B #18 Unit J, 1980'FSL, 1980'FEL, Sec. 11-T17-R30E 396
1156 Gissler B #22 Unit N, 1880'FWL, 660'FSL, Sec. 11-T17-R30E 579
1515 Gissler B #23 Unit D, 660'FNL, 660'FWL, Sec. 14-T17-R30E 581
1245 Jackson B #23 Unit J, 1420'FSL, 1980'FEL, Sec. 24-T17-R30E 587
Eddy County, New Mexico
SWD
386

Dear Mr. Catanach:

Enclosed are two copies of our recent Step rate injection tests for the referenced wells. The overall economics for these projects necessitate a quick response to our injection project. We feel this response can only be achieved by a higher injection pressure allowing us to inject a greater amount of water into the producing formations. We respectfully request you review these test results and grant us approval for the highest possible injection pressure.

Please contact Mr. Rayford Starkey (1-505-677-2313) or the undersigned if other information is needed.

Yours truly,

James H. Arline

James H. Arline
Materials Coordinator

R-4616

801 CHERRY STREET
SUITE 1500

BURNETT OIL CO., INC.

FORT WORTH, TX 76102-6869
(817) 332-5108

WEST–TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: DECEMBER 12, 1995

WELL NAME: JACKSON "B" NO. 23
EDDY COUNTY, NEW MEXICO

WO#: 95–14–1910

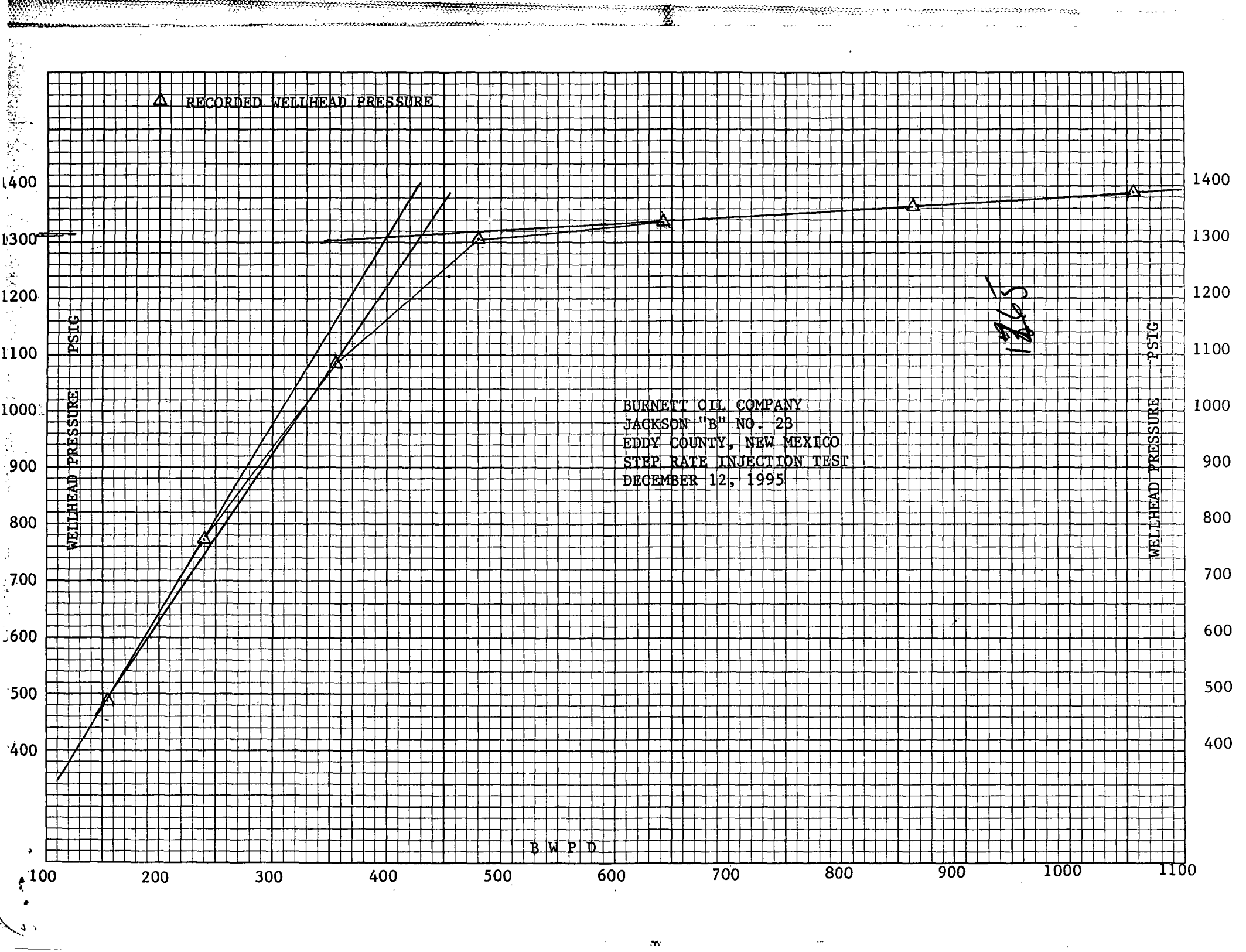
PERFS = 1978–2034

PACKER DEPTH = 1957

BHP GAUGE DEPTH = SURFACE ONLY

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)–(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
	9:15	21.9				21.9		
	9:20	287.9	0.7	201.6	0.894	287.0	5.88	
	9:25	420.0	1.1	115.2	0.318	419.7	3.36	
1	9:30	483.6	1.6	144.0	0.480	483.1	4.20	
				153.6				
	9:35	653.1	2.5	259.2	1.424	651.7	7.56	
	9:40	715.5	3.4	259.2	1.424	714.1	7.56	
2	9:45	774.1	4.1	201.6	0.894	773.2	5.88	
				240.0				
	9:50	958.6	5.3	345.6	2.424	956.2	10.08	
	9:55	1034.7	6.6	374.4	2.811	1031.9	10.92	
3	10:00	1081.0	7.8	345.6	2.424	1078.6	10.08	
				355.2				
	10:05	1260.8	9.4	460.8	4.127	1256.7	13.44	
	10:10	1295.8	11.1	489.6	4.617	1291.2	14.28	
4	10:15	1305.7	12.8	489.6	4.617	1301.1	14.28	
				480.0				
	10:20	1354.5	15.1	662.4	8.077	1346.4	19.32	
	10:25	1344.6	17.3	633.6	7.439	1337.2	18.48	
5	10:30	1335.9	19.5	633.6	7.439	1328.5	18.48	
				643.2				
	10:35	1353.5	22.6	892.8	14.030	1339.5	26.04	
	10:40	1341.1	25.5	835.2	12.402	1328.7	24.36	
6	10:45	1361.1	28.5	864.0	13.205	1347.9	25.20	
				864.0				
	10:50	1397.4	32.1	1036.8	18.502	1378.9	30.24	
	10:55	1392.4	35.8	1065.6	19.464	1372.9	31.08	
7	11:00	1391.2	39.5	1065.6	19.464	1371.7	31.08	
				1056.0				

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1) – (4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
FALLOFF	11:01	1218.0				1218.0		
	11:02	1196.3				1196.3		
	11:03	1180.1				1180.1		
	11:04	1163.9				1163.9		
	11:05	1148.9				1148.9		
	11:10	1056.4				1056.4		
	11:15	956.7				956.7		


RECORDED WELLHEAD PRESSURE
WELLHEAD PRESSURE PSIG
1400
1300
1200
1100
1000
900
800
700
600
500
400
BURNETT OIL COMPANY
JACKSON "B" NO. 23
EDDY COUNTY, NEW MEXICO
STEP RATE INJECTION TEST
DECEMBER 12, 1995
B W P D
100
200
300
400
500
600
700
800
900
1000
1100