

OIL CONSERVATION DIVISION

WFX-604

PDEV0020900604

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 Gissler 'B 11'
Waterflood Project, Eddy County, New Mexico

Dear Mr. Arline:

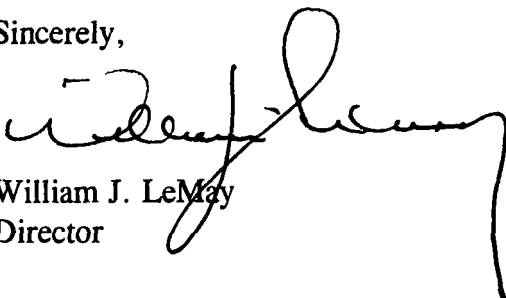
Reference is made to your request dated January 4, 1996 to increase the surface injection pressure on 4 wells in the above referenced waterflood project. This request is based on step rate tests conducted between August 21 and 23, 1995. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Well and Location	Maximum Surface Injection Pressure
Gissler 'B' Well No.16, Unit Letter L, Section 11	1885 PSIG
Gissler 'B' Well No.18, Unit Letter J, Section 11	1165 PSIG
Gissler 'B' Well No.22, Unit Letter N, Section 11	1136 PSIG
Gissler 'B' Well No.23, Unit Letter D, Section 14	1515 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

Injection Pressure Increase
Burnett Oil Company, Inc.
February 12, 1996
Page 2

WJL/BES

cc: Oil Conservation Division - Artesia
Files: WFX-604; PSI-X 3rd QTR-96

CCCC

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

1845 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 596
1136 Gissler B #22 Unit N, 1880' FWL, 660' FSL, Sec. 11-T17-R30E 579
1518 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

386

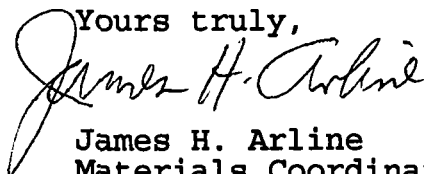
SWD

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
Materials Coordinator

R-4674

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: AUGUST 21, 1995

WELL NAME: GISSLER B NO. 16
EDDY COUNTY, NEW MEXICO

WO#: 95-14-1229

PERFS = 2962-3119

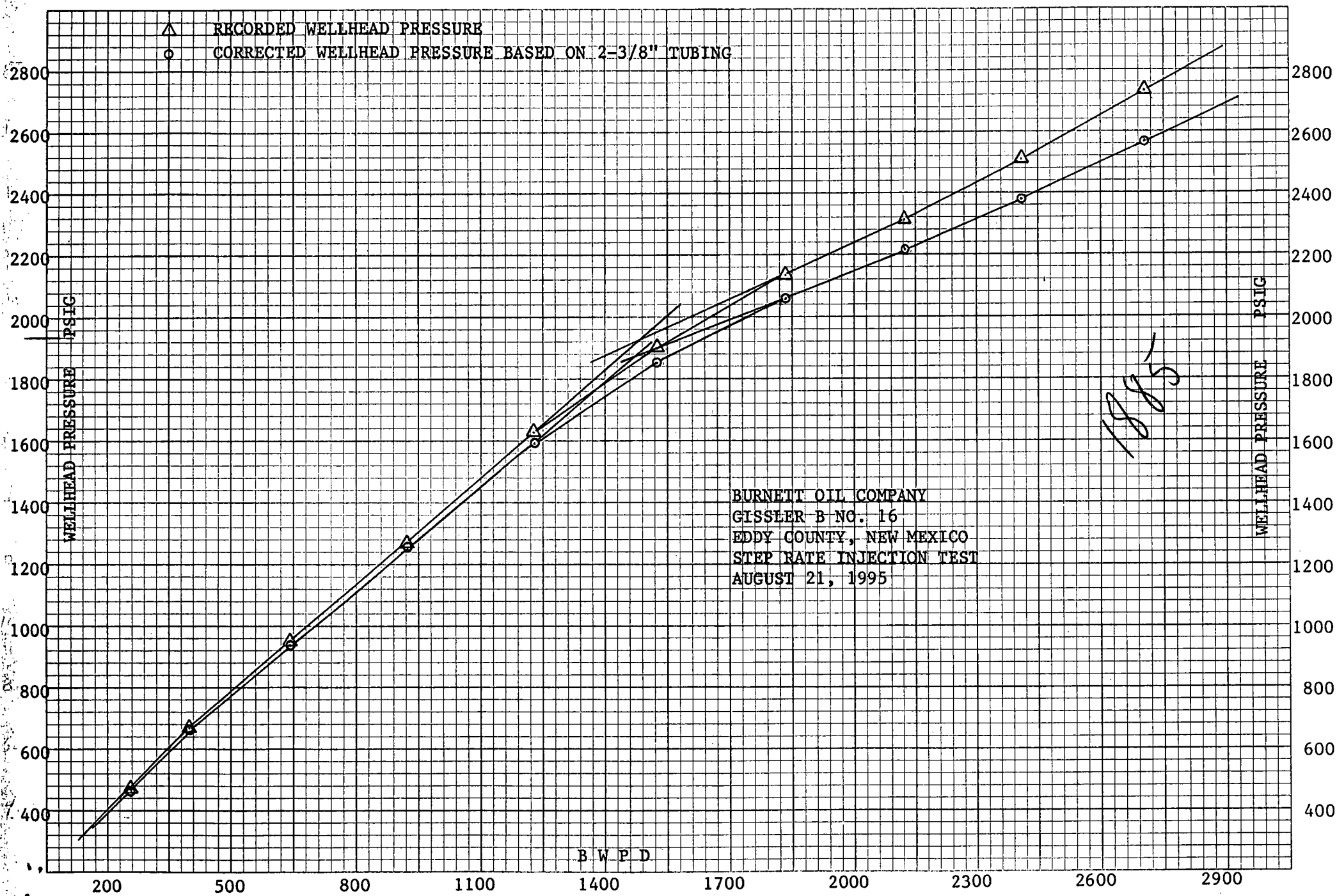
PACKER DEPTH = 2818

BHP GAUGE DEPTH = 3040

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)
1	9:35	232.0				232.0		
	9:40	384.4	0.9	259.2	2.157	382.2	7.56	
	9:45	425.6	1.8	259.2	2.157	423.4	7.56	
	9:50	473.0	2.7	259.2	2.157	470.8	7.56	
2				259.2				
	9:55	590.2	4.1	403.2	4.886	585.3	11.76	
	10:00	637.5	5.6	432.0	5.551	631.9	12.60	
	10:05	671.1	6.9	374.4	4.260	666.8	10.92	
3				403.2				
	10:10	831.8	9.2	662.4	12.240	819.6	19.32	
	10:15	899.0	11.3	604.8	10.344	888.7	17.64	
	10:20	950.1	13.6	662.4	12.240	937.9	19.32	
4				643.2				
	10:25	1170.9	16.8	921.6	22.549	1148.4	26.88	
	10:30	1220.8	20.0	921.6	22.549	1198.3	26.88	
	10:35	1274.5	23.2	921.6	22.549	1252.0	26.88	
5				921.6				
	10:40	1534.3	27.4	1209.6	37.291	1497.0	35.28	
	10:45	1579.2	31.7	1238.4	38.950	1540.2	36.12	
	10:50	1627.9	36.0	1238.4	38.950	1588.9	36.12	
6				1228.8				
	10:55	1826.4	41.3	1526.4	57.346	1769.1	44.52	
	11:00	1867.6	46.8	1584.0	61.414	1806.2	46.20	
	11:05	1903.8	51.9	1468.8	53.407	1850.4	42.84	
7				1526.4				
	11:10	2078.7	58.3	1843.2	81.288	1997.4	53.76	
	11:15	2104.9	64.7	1843.2	81.288	2023.6	53.76	
	11:20	2136.2	71.0	1814.4	78.954	2057.2	52.92	
				1833.6				

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)
8	11:25	2268.6	78.4	2131.2	106.334	2162.3	62.16	
	11:30	2279.9	85.8	2131.2	106.334	2173.6	62.16	
	11:35	2316.2	93.1	2102.4	103.691	2212.5	61.32	
9				2121.6				
	11:40	2486.2	101.5	2419.2	134.435	2351.8	70.56	
	11:45	2488.0	109.9	2419.2	134.435	2353.6	70.56	
10	11:50	2512.5	118.2	2390.4	131.489	2381.0	69.72	
				2409.6				
	11:55	2706.7	127.6	2707.2	165.532	2541.2	78.96	
FALLOFF	12:00	2704.3	137.0	2707.2	165.532	2538.8	78.96	
	12:05	2728.1	146.4	2707.2	165.532	2562.6	78.96	
				2707.2				
	12:06	1921.5				1921.5		
	12:07	1889.0				1889.0		
	12:08	1869.0				1869.0		
	12:09	1850.3				1850.3		
	12:10	1835.3				1835.3		
	12:15	1775.4				1775.4		
	12:20	1725.4				1725.4		



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: AUGUST 23, 1995

WELL NAME: GISSLER B NO. 18
EDDY COUNTY, NEW MEXICO

WO#: 95-14-1230

PERFS = 2982-3468

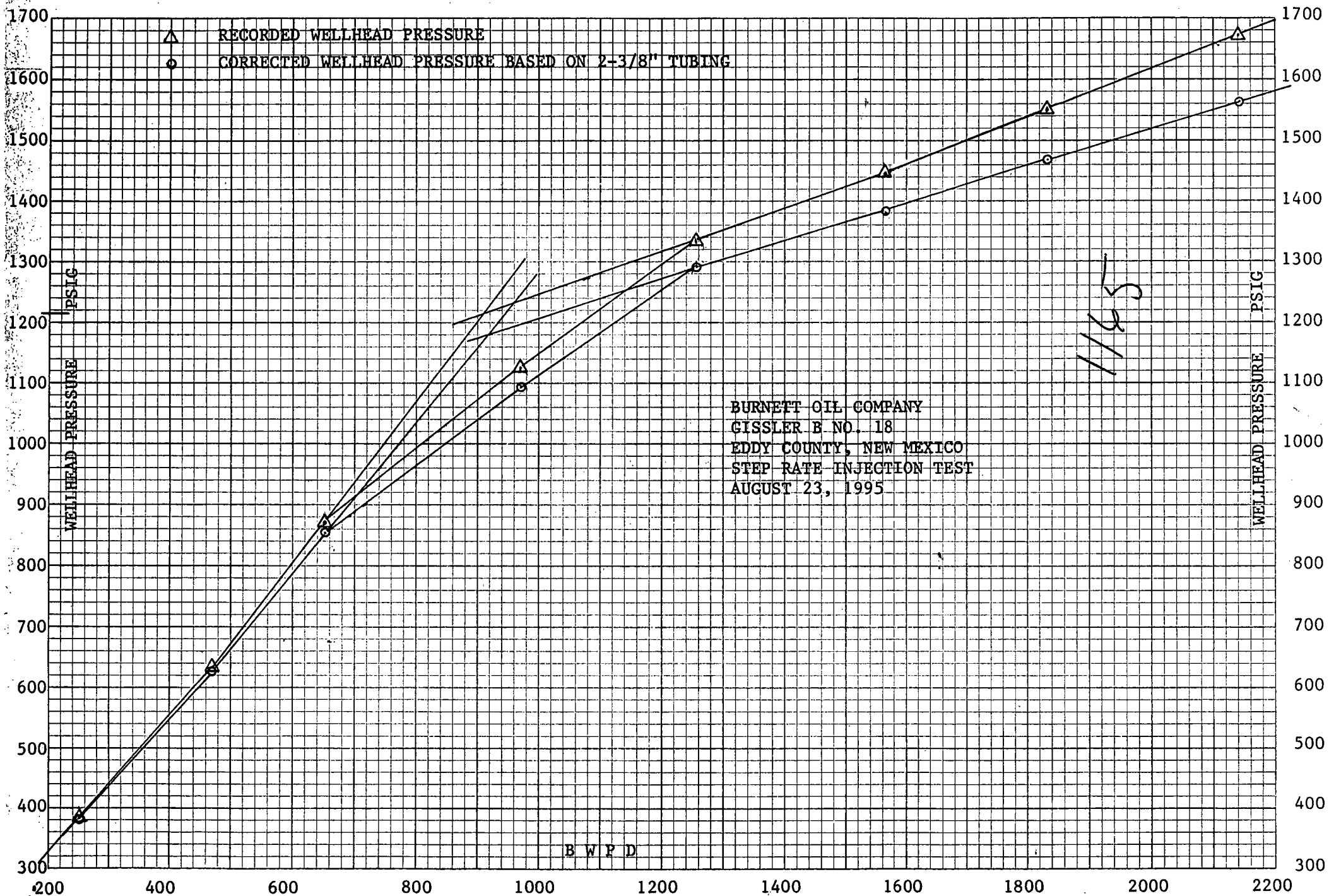
PACKER DEPTH = 2919

BHP GAUGE DEPTH = 3225

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)/24.2637	(7) MEASURED BHP (psi)
1	8:35	216.6				216.6		
	8:40	245.4	1.0	288.0	2.781	242.6	8.40	
	8:45	328.9	1.8	230.4	1.841	327.1	6.72	
	8:50	381.3	2.6	230.4	1.841	379.5	6.72	
2				249.6				
	8:55	525.9	4.2	460.8	6.635	519.3	13.44	
	9:00	618.2	5.8	460.8	6.635	611.6	13.44	
	9:05	634.4	7.5	489.5	7.420	627.0	14.28	
3				470.4				
	9:10	757.8	9.7	633.6	11.960	745.8	18.48	
	9:15	827.6	12.0	662.4	12.985	814.6	19.32	
	9:20	868.8	14.3	662.4	12.985	855.8	19.32	
4				652.8				
	9:25	1040.8	17.7	979.2	26.760	1014.0	28.56	
	9:30	1084.5	21.1	979.2	26.760	1057.7	28.56	
	9:35	1123.3	24.4	950.4	25.322	1098.0	27.72	
5				969.6				
	9:40	1280.7	28.8	1267.2	43.116	1237.6	36.96	
	9:45	1315.7	33.3	1296.0	44.946	1270.8	37.80	
	9:50	1333.2	37.5	1209.6	39.561	1293.6	35.28	
6				1257.6				
	9:55	1439.4	42.9	1555.2	62.977	1376.4	45.36	
	10:00	1450.6	48.3	1555.2	62.977	1387.6	45.36	
	10:05	1445.6	53.8	1584.0	65.151	1380.4	46.20	
7				1564.8				
	10:10	1555.5	60.2	1843.2	86.235	1469.3	53.76	
	10:15	1549.3	66.6	1843.2	86.235	1463.1	53.76	
	10:20	1551.8	72.9	1814.4	83.759	1468.0	52.92	
				1833.6				

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)
8 FALLOFF	10:25	1680.4	80.4	2160.0	115.642	1564.8	63.00	
	10:30	1677.9	87.8	2131.2	112.805	1565.1	62.16	
	10:35	1674.2	95.2	2131.2	112.805	1561.4	62.16	
				2140.8				
	10:36	1144.6				1144.6		
	10:37	1137.1				1137.1		
	10:38	1130.9				1130.9		
	10:39	1125.9				1125.9		
	10:40	1120.9				1120.9		
	10:45	1102.2				1102.2		
	10:50	1087.2				1087.2		



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: AUGUST 22, 1995

WELL NAME: GISSLER B NO. 22
EDDY COUNTY, NEW MEXICO

WO#: 95-14-1231

PERFS = 2903-3513

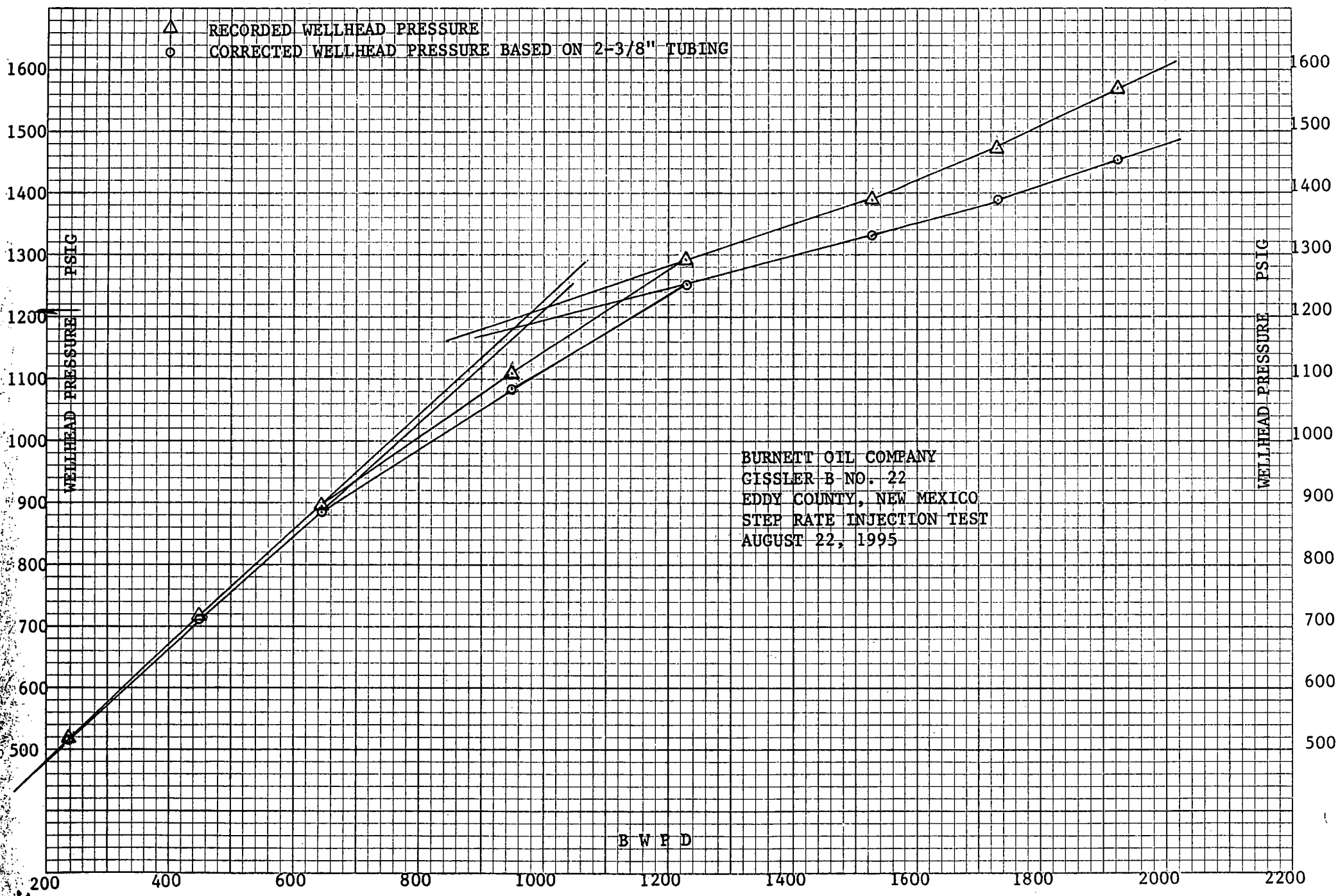
PACKER DEPTH = 2858

BHP GAUGE DEPTH = 3208

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)
1	11:00	108.2				108.2		
	11:05	348.6	0.8	230.4	1.831	346.8	6.72	
	11:10	428.5	1.6	230.4	1.831	426.7	6.72	
	11:15	519.4	2.5	259.2	2.277	517.1	7.56	
2				240.0				
	11:20	632.8	4.1	460.8	6.601	626.2	13.44	
	11:25	680.1	5.6	432.0	5.858	674.2	12.60	
	11:30	718.8	7.2	460.8	6.601	712.2	13.44	
3				451.2				
	11:35	825.9	9.4	633.6	11.897	814.0	18.48	
	11:40	870.7	11.7	662.4	12.917	857.8	19.32	
	11:45	895.6	13.9	633.6	11.897	883.7	18.48	
4				643.2				
	11:50	1041.2	17.2	950.4	25.189	1016.0	27.72	
	11:55	1079.9	20.5	950.4	25.189	1054.7	27.72	
	12:00	1108.6	23.8	950.4	25.189	1083.4	27.72	
5				950.4				
	12:05	1235.9	28.1	1238.4	41.103	1194.8	36.12	
	12:10	1264.6	32.4	1238.4	41.103	1223.5	36.12	
	12:15	1293.3	36.6	1209.6	39.352	1253.9	35.28	
6				1228.8				
	12:20	1401.9	41.9	1526.4	60.515	1341.4	44.52	
	12:25	1396.9	47.2	1526.4	60.515	1336.4	44.52	
	12:30	1391.9	52.5	1526.4	60.515	1331.4	44.52	
7				1526.4				
	12:35	1486.8	58.9	1843.2	85.780	1401.0	53.76	
	12:40	1473.1	65.2	1814.4	83.317	1389.8	52.92	
	12:45	1473.1	71.6	1843.2	85.780	1387.3	53.76	
				1833.6				

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)
8 FALLOFF	12:50	1569.2	78.9	2102.4	109.421	1459.8	61.32	
	12:55	1564.2	86.3	2131.2	112.211	1452.0	62.16	
	1:00	1569.2	93.7	2131.2	112.211	1457.0	62.16	
				2121.6				
	1:01	1229.7				1229.7		
	1:02	1209.8				1209.8		
	1:03	1199.8				1199.8		
	1:04	1193.6				1193.6		
	1:05	1186.1				1186.1		
	1:10	1156.1				1156.1		
	1:15	1128.6				1128.6		



WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: AUGUST 22, 1995

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

WO#: 95-14-1232

PERFS = 2922-3006

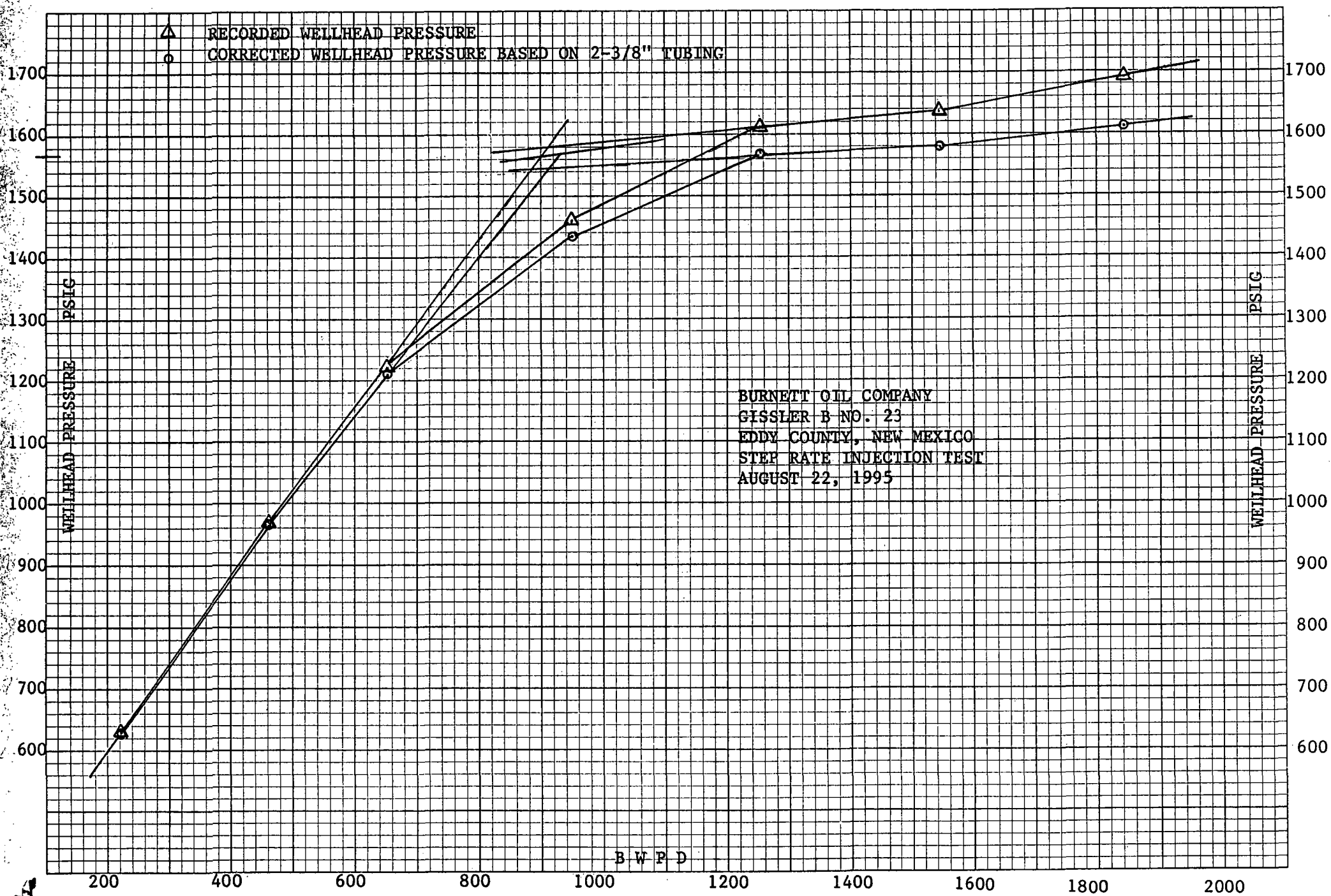
PACKER DEPTH = 2764

BHP GAUGE DEPTH = 2964

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)
1	8:30	173.0				173.0		
	8:35	450.7	0.8	230.4	1.692	449.0	6.72	
	8:40	549.2	1.5	201.6	1.321	547.9	5.88	
	8:45	630.2	2.3	230.4	1.692	628.5	6.72	
				220.8				
2	8:50	857.0	3.9	460.8	6.098	850.9	13.44	
	8:55	914.3	5.5	460.8	6.098	908.2	13.44	
	9:00	966.7	7.1	460.8	6.098	960.6	13.44	
3				460.8				
	9:05	1137.7	9.4	662.4	11.934	1125.8	19.32	
	9:10	1180.2	11.7	662.4	11.934	1168.3	19.32	
	9:15	1220.2	13.9	633.6	10.992	1209.2	18.48	
				652.8				
4	9:20	1403.9	17.4	1008.0	25.949	1378.0	29.40	
	9:25	1436.4	20.5	892.8	20.731	1415.7	26.04	
	9:30	1458.9	23.8	950.4	23.273	1435.6	27.72	
5				950.4				
	9:35	1605.1	28.1	1238.4	37.977	1567.1	36.12	
	9:40	1615.1	32.5	1267.2	39.627	1575.5	36.96	
	9:45	1608.9	36.9	1267.2	39.627	1569.3	36.96	
				1257.6				
6	9:50	1703.9	42.3	1555.2	57.880	1646.0	45.36	
	9:55	1701.4	47.6	1526.4	55.913	1645.5	44.52	
	10:00	1636.5	53.0	1555.2	57.880	1578.6	45.36	
				1545.6				
7	10:05	1771.5	59.3	1814.4	76.980	1694.5	52.92	
	10:10	1720.3	65.7	1843.2	79.256	1641.0	53.76	
	10:15	1690.4	72.2	1872.0	81.562	1608.8	54.60	
				1843.2				

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WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: AUGUST 21, 1995

WELL NAME: GISSLER B NO. 16
EDDY COUNTY, NEW MEXICO

WO#: 95-14-1229

PERFS = 2962-3119

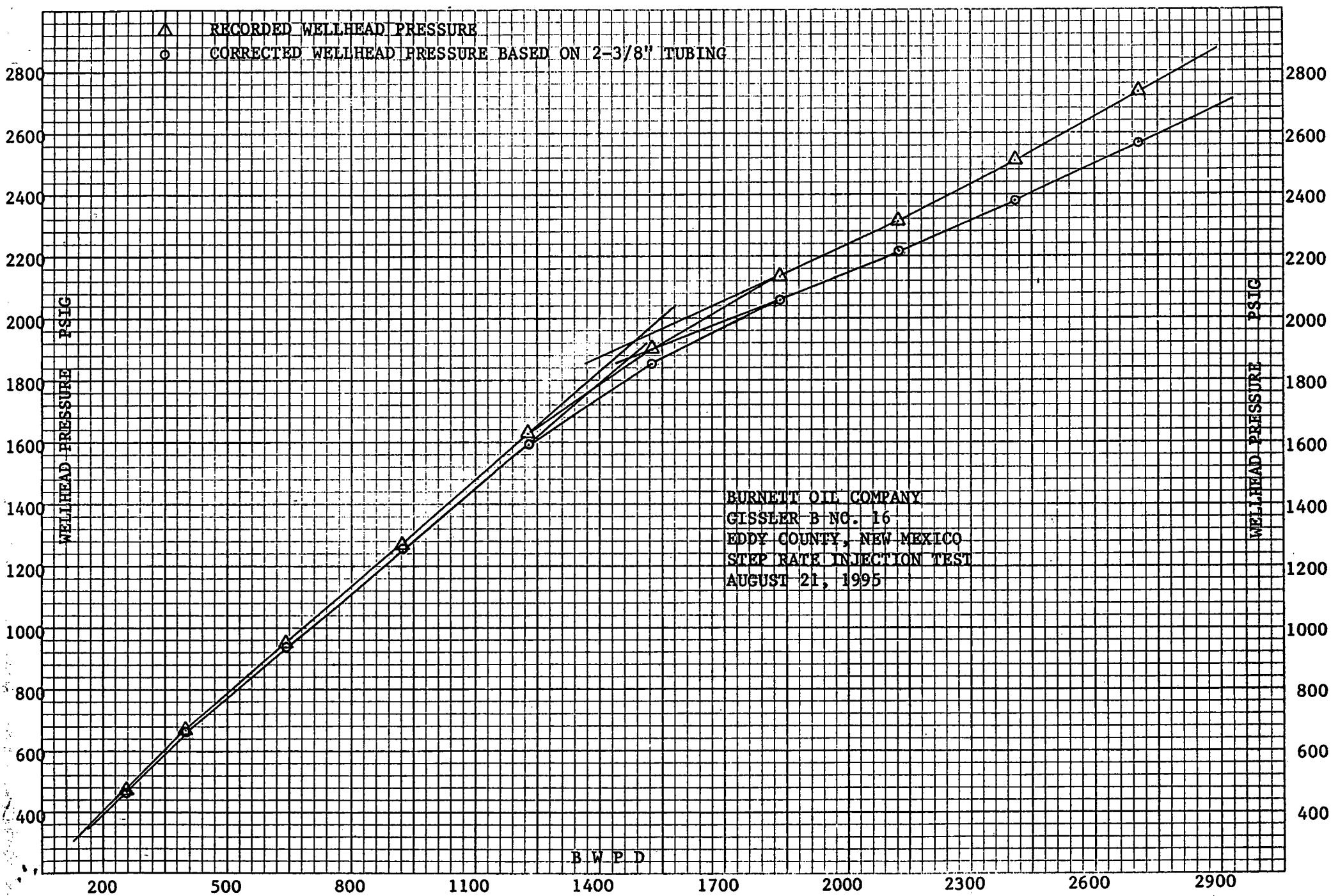
PACKER DEPTH = 2818

BHP GAUGE DEPTH = 3040

SURFACE ONLY

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMULATIVE 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)
1	9:35	232.0				232.0		
	9:40	384.4	0.9	259.2	2.157	382.2	7.56	
	9:45	425.6	1.8	259.2	2.157	423.4	7.56	
	9:50	473.0	2.7	259.2	2.157	470.8	7.56	
				259.2				
2	9:55	590.2	4.1	403.2	4.886	585.3	11.76	
	10:00	637.5	5.6	432.0	5.551	631.9	12.60	
	10:05	671.1	6.9	374.4	4.260	666.8	10.92	
3				403.2				
	10:10	831.8	9.2	662.4	12.240	819.6	19.32	
	10:15	899.0	11.3	604.8	10.344	888.7	17.64	
	10:20	950.1	13.6	662.4	12.240	937.9	19.32	
				643.2				
4	10:25	1170.9	16.8	921.6	22.549	1148.4	26.88	
	10:30	1220.8	20.0	921.6	22.549	1198.3	26.88	
	10:35	1274.5	23.2	921.6	22.549	1252.0	26.88	
				921.6				
5	10:40	1534.3	27.4	1209.6	37.291	1497.0	35.28	
	10:45	1579.2	31.7	1238.4	38.950	1540.2	36.12	
	10:50	1627.9	36.0	1238.4	38.950	1588.9	36.12	
				1228.8				
6	10:55	1826.4	41.3	1526.4	57.346	1769.1	44.52	
	11:00	1867.6	46.8	1584.0	61.414	1806.2	46.20	
	11:05	1903.8	51.9	1468.8	53.407	1850.4	42.84	
				1526.4				
7	11:10	2078.7	58.3	1843.2	81.288	1997.4	53.76	
	11:15	2104.9	64.7	1843.2	81.288	2023.6	53.76	
	11:20	2136.2	71.0	1814.4	78.954	2057.2	52.92	
				1833.6				

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)
8	11:25	2268.6	78.4	2131.2	106.334	2162.3	62.16	
	11:30	2279.9	85.8	2131.2	106.334	2173.6	62.16	
	11:35	2316.2	93.1	2102.4	103.691	2212.5	61.32	
9				2121.6				
	11:40	2486.2	101.5	2419.2	134.435	2351.8	70.56	
	11:45	2488.0	109.9	2419.2	134.435	2353.6	70.56	
10	11:50	2512.5	118.2	2390.4	131.489	2381.0	69.72	
				2409.6				
	11:55	2706.7	127.6	2707.2	165.532	2541.2	78.96	
FALLOFF	12:00	2704.3	137.0	2707.2	165.532	2538.8	78.96	
	12:05	2728.1	146.4	2707.2	165.532	2562.6	78.96	
				2707.2				
	12:06	1921.5				1921.5		
	12:07	1889.0				1889.0		
	12:08	1869.0				1869.0		
	12:09	1850.3				1850.3		
	12:10	1835.3				1835.3		
	12:15	1775.4				1775.4		
	12:20	1725.4				1725.4		



WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: AUGUST 23, 1995

WELL NAME: GISSLER B NO. 18
EDDY COUNTY, NEW MEXICO

WO#: 95-14-1230

PERFS = 2982-3468

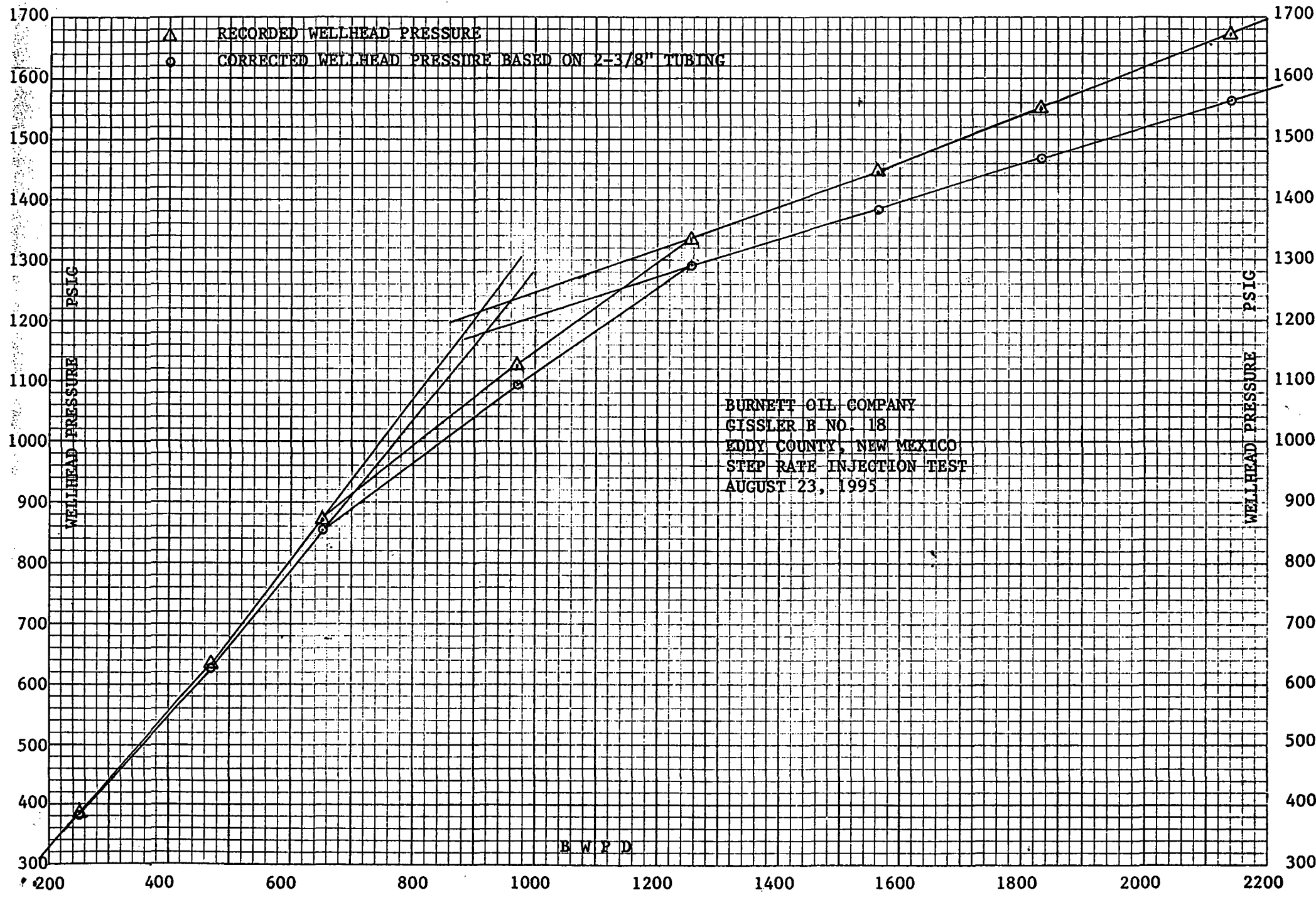
PACKER DEPTH = 2919

BHP GAUGE DEPTH = 3225

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)
	8:35	216.6				216.6		
	8:40	245.4	1.0	288.0	2.781	242.6	8.40	
	8:45	328.9	1.8	230.4	1.841	327.1	6.72	
1	8:50	381.3	2.6	230.4	1.841	379.5	6.72	
				249.6				
	8:55	525.9	4.2	460.8	6.635	519.3	13.44	
	9:00	618.2	5.8	460.8	6.635	611.6	13.44	
2	9:05	634.4	7.5	489.5	7.420	627.0	14.28	
				470.4				
	9:10	757.8	9.7	633.6	11.960	745.8	18.48	
	9:15	827.6	12.0	662.4	12.985	814.6	19.32	
3	9:20	868.8	14.3	662.4	12.985	855.8	19.32	
				652.8				
	9:25	1040.8	17.7	979.2	26.760	1014.0	28.56	
	9:30	1084.5	21.1	979.2	26.760	1057.7	28.56	
4	9:35	1123.3	24.4	950.4	25.322	1098.0	27.72	
				969.6				
	9:40	1280.7	28.8	1267.2	43.116	1237.6	36.96	
	9:45	1315.7	33.3	1296.0	44.946	1270.8	37.80	
5	9:50	1333.2	37.5	1209.6	39.561	1293.6	35.28	
				1257.6				
	9:55	1439.4	42.9	1555.2	62.977	1376.4	45.36	
	10:00	1450.6	48.3	1555.2	62.977	1387.6	45.36	
6	10:05	1445.6	53.8	1584.0	65.151	1380.4	46.20	
				1564.8				
	10:10	1555.5	60.2	1843.2	86.235	1469.3	53.76	
	10:15	1549.3	66.6	1843.2	86.235	1463.1	53.76	
7	10:20	1551.8	72.9	1814.4	83.759	1468.0	52.92	
				1833.6				

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)
8 FALLOFF	10:25	1680.4	80.4	2160.0	115.642	1564.8	63.00	
	10:30	1677.9	87.8	2131.2	112.805	1565.1	62.16	
	10:35	1674.2	95.2	2131.2	112.805	1561.4	62.16	
				2140.8				
	10:36	1144.6				1144.6		
	10:37	1137.1				1137.1		
	10:38	1130.9				1130.9		
	10:39	1125.9				1125.9		
	10:40	1120.9				1120.9		
	10:45	1102.2				1102.2		
	10:50	1087.2				1087.2		



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: AUGUST 22, 1995

WELL NAME: GISSLER B NO. 22
EDDY COUNTY, NEW MEXICO

WO#: 95-14-1231

PERFS = 2903-3513

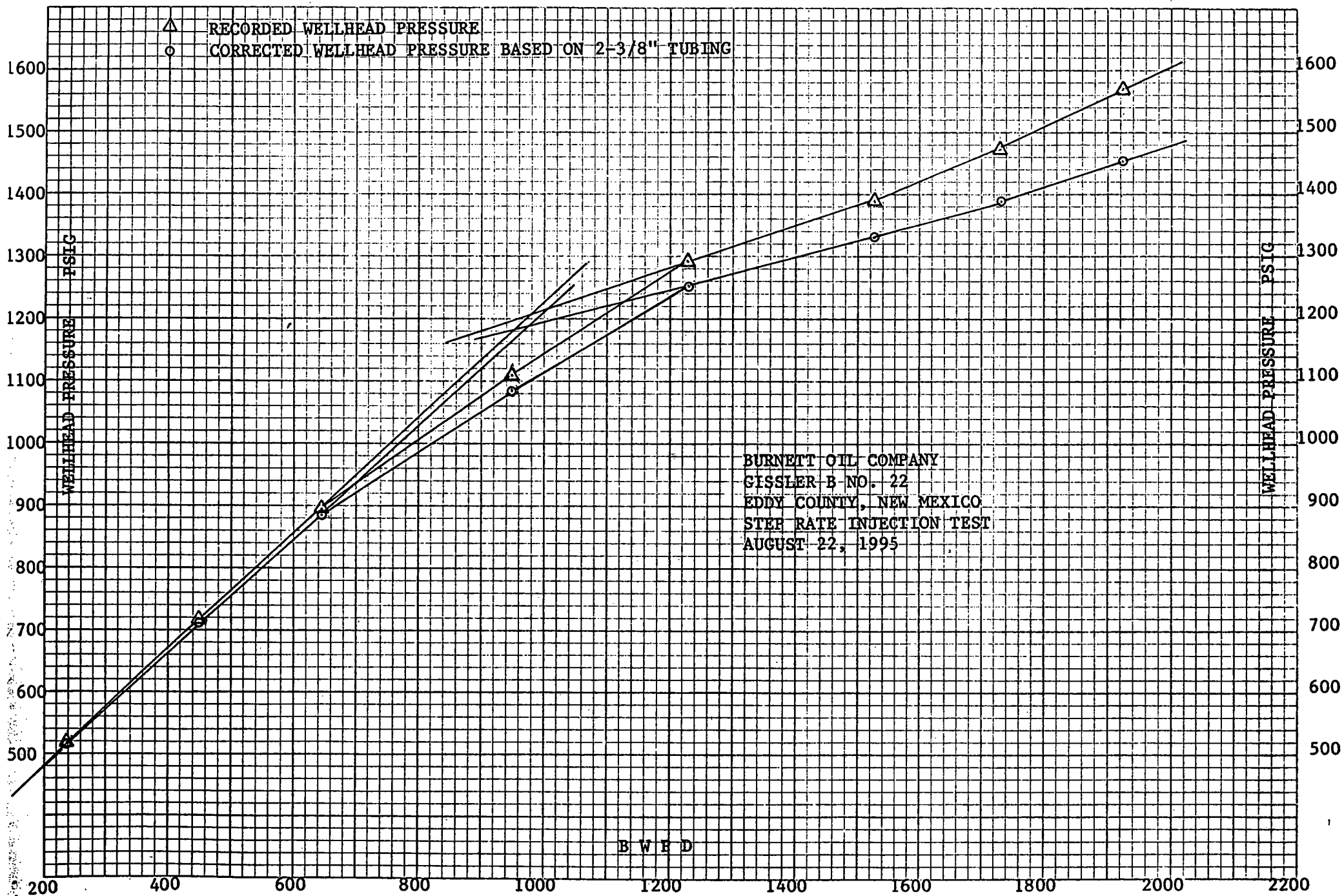
PACKER DEPTH = 2858

BHP GAUGE DEPTH = 3208

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)
	11:00	108.2				108.2		
	11:05	348.6	0.8	230.4	1.831	346.8	6.72	
	11:10	428.5	1.6	230.4	1.831	426.7	6.72	
1	11:15	519.4	2.5	259.2	2.277	517.1	7.56	
				240.0				
	11:20	632.8	4.1	460.8	6.601	626.2	13.44	
	11:25	680.1	5.6	432.0	5.858	674.2	12.60	
2	11:30	718.8	7.2	460.8	6.601	712.2	13.44	
				451.2				
	11:35	825.9	9.4	633.6	11.897	814.0	18.48	
	11:40	870.7	11.7	662.4	12.917	857.8	19.32	
3	11:45	895.6	13.9	633.6	11.897	883.7	18.48	
				643.2				
	11:50	1041.2	17.2	950.4	25.189	1016.0	27.72	
	11:55	1079.9	20.5	950.4	25.189	1054.7	27.72	
4	12:00	1108.6	23.8	950.4	25.189	1083.4	27.72	
				950.4				
	12:05	1235.9	28.1	1238.4	41.103	1194.8	36.12	
	12:10	1264.6	32.4	1238.4	41.103	1223.5	36.12	
5	12:15	1293.3	36.6	1209.6	39.352	1253.9	35.28	
				1228.8				
	12:20	1401.9	41.9	1526.4	60.515	1341.4	44.52	
	12:25	1396.9	47.2	1526.4	60.515	1336.4	44.52	
6	12:30	1391.9	52.5	1526.4	60.515	1331.4	44.52	
				1526.4				
	12:35	1486.8	58.9	1843.2	85.780	1401.0	53.76	
	12:40	1473.1	65.2	1814.4	83.317	1389.8	52.92	
7	12:45	1473.1	71.6	1843.2	85.780	1387.3	53.76	
				1833.6				

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)/34.2657	(7) MEASURED BHP (psi)
8 FALLOFF	12:50	1569.2	78.9	2102.4	109.421	1459.8	61.32	
	12:55	1564.2	86.3	2131.2	112.211	1452.0	62.16	
	1:00	1569.2	93.7	2131.2	112.211	1457.0	62.16	
				2121.6				
	1:01	1229.7				1229.7		
	1:02	1209.8				1209.8		
	1:03	1199.8				1199.8		
	1:04	1193.6				1193.6		
	1:05	1186.1				1186.1		
	1:10	1156.1				1156.1		
	1:15	1128.6				1128.6		



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: BURNETT OIL COMPANY

DATE: AUGUST 22, 1995

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

WO#: 95-14-1232

PERFS = 2922-3006

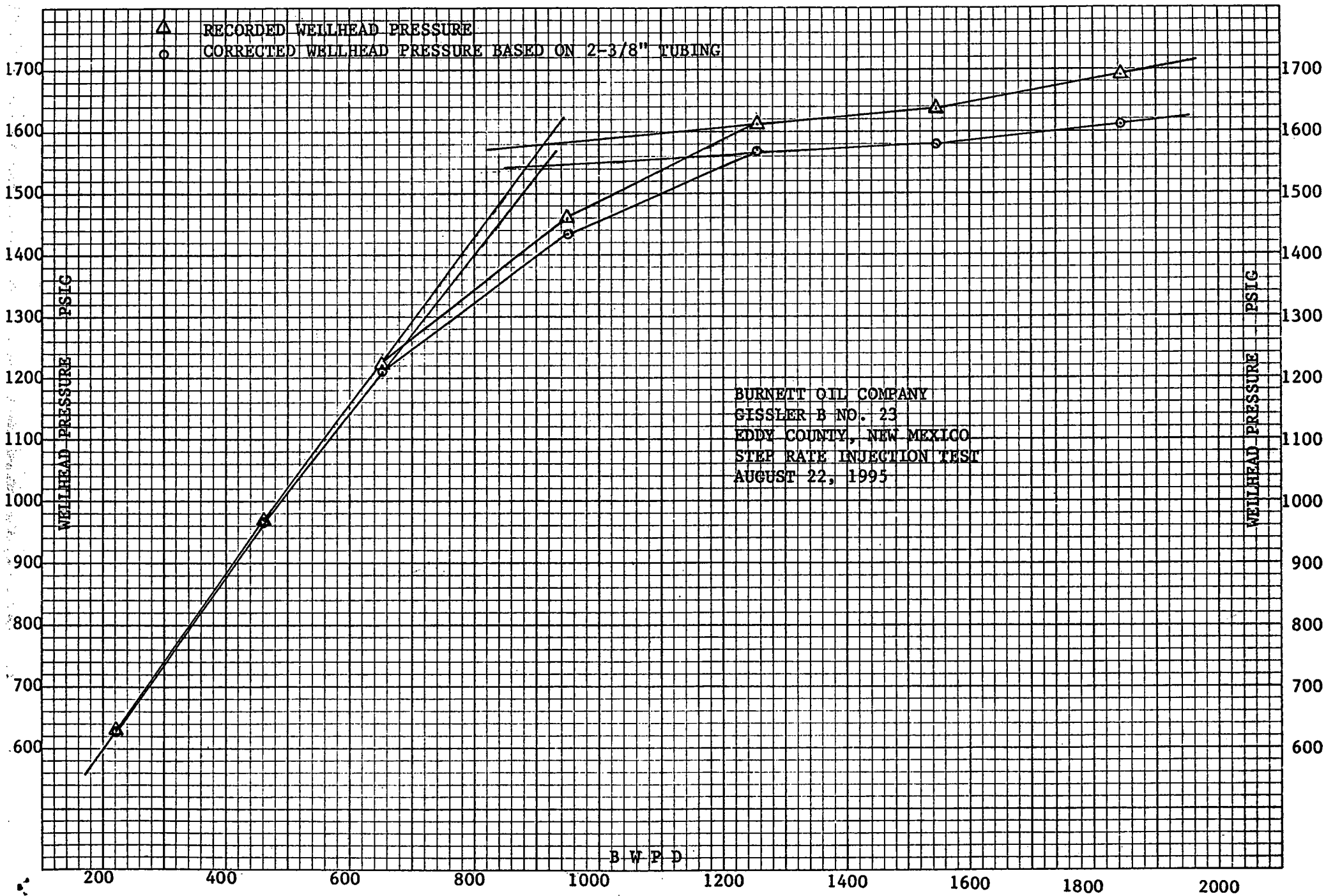
PACKER DEPTH = 2784

BHP GAUGE DEPTH = 2984

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)/34.2657	(7) MEASURED BHP (psi)
1	8:30	173.0				173.0		
	8:35	450.7	0.8	230.4	1.692	449.0	6.72	
	8:40	549.2	1.5	201.6	1.321	547.9	5.88	
	8:45	630.2	2.3	230.4	1.692	628.5	6.72	
				220.8				
2	8:50	857.0	3.9	460.8	6.098	850.9	13.44	
	8:55	914.3	5.5	460.8	6.098	908.2	13.44	
	9:00	966.7	7.1	460.8	6.098	960.6	13.44	
3				460.8				
	9:05	1137.7	9.4	662.4	11.934	1125.8	19.32	
	9:10	1180.2	11.7	662.4	11.934	1168.3	19.32	
	9:15	1220.2	13.9	633.6	10.992	1209.2	18.48	
4				652.8				
	9:20	1403.9	17.4	1008.0	25.949	1378.0	29.40	
	9:25	1436.4	20.5	892.8	20.731	1415.7	26.04	
	9:30	1458.9	23.8	950.4	23.273	1435.6	27.72	
5				950.4				
	9:35	1605.1	28.1	1238.4	37.977	1567.1	36.12	
	9:40	1615.1	32.5	1267.2	39.627	1575.5	36.96	
	9:45	1608.9	36.9	1267.2	39.627	1569.3	36.96	
6				1257.6				
	9:50	1703.9	42.3	1555.2	57.880	1646.0	45.36	
	9:55	1701.4	47.6	1526.4	55.913	1645.5	44.52	
	10:00	1636.5	53.0	1555.2	57.880	1578.6	45.36	
7				1545.6				
	10:05	1771.5	59.3	1814.4	76.980	1694.5	52.92	
	10:10	1720.3	65.7	1843.2	79.256	1641.0	53.76	
	10:15	1690.4	72.2	1872.0	81.562	1608.8	54.60	
				1843.2				

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	10:16	1225.6				1225.6		
	10:17	1199.3				1199.3		
	10:18	1183.1				1183.1		
	10:19	1170.6				1170.6		
	10:20	1159.4				1159.4		
	10:25	1130.6				1130.6		
	10:30	1115.6				1115.6		



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 = 1857

BHP GAUGE DEPTH = SURFACE ONLY

STEP NO. 2		(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) (5)/1.2857	(7) MEASURED BHP (psi)
REMARKS	TIME							
	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)/34.2657	(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		

