



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

CF 10103
R-9359

June 25, 1997

Sage Energy Company
P.O. Drawer 3068
Midland, Texas 79702-3068

Attn: Mr. Jay H. Hardy

**RE: Injection Pressure Increase,
North Vacuum (Abo) North Unit Waterflood Project,
Lea County, New Mexico**

Dear Mr. Hardy:

Reference is made to your request dated April 24, 1997 to increase the surface injection pressure on 16 wells in the above referenced project. This request is based on step rate tests conducted on these wells between April 3 and 16, 1997. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure all of the wells is justified at this time.

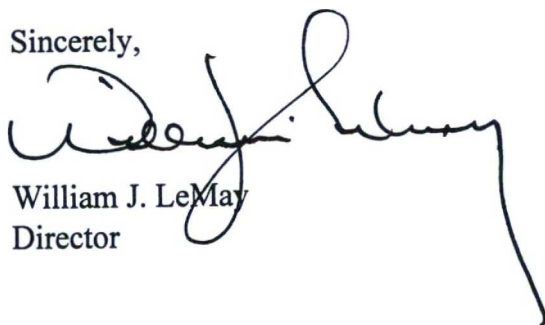
You are therefore authorized to increase the surface injection pressure on the following wells:

<i>Well and Location</i>	<i>Maximum Surface Injection Pressure</i>
North Vacuum (Abo) North Unit Well No.2A-1 Unit Letter N, Section 1, Township 17 South, Range 34 East	4170 PSIG
North Vacuum (Abo) North Unit Well No.5B-1 Unit Letter P, Section 1, Township 17 South, Range 34 East	3945 PSIG
North Vacuum (Abo) North Unit Well No.14-1 Unit Letter D, Section 12, Township 17 South, Range 34 East	4420 PSIG
North Vacuum (Abo) North Unit Well No.14-2 Unit Letter F, Section 12, Township 17 South, Range 34 East	4180 PSIG
North Vacuum (Abo) North Unit Well No.3-1 Unit Letter J, Section 1, Township 17 South, Range 34 East	4520 PSIG
North Vacuum (Abo) North Unit Well No.4A-1 Unit Letter L, Section 1, Township 17 South, Range 34 East	4680 PSIG

<i>Well and Location</i>	<i>Maximum Surface Injection Pressure</i>
North Vacuum (Abo) North Unit Well No.1B-1 Unit Letter F, Section 1, Township 17 South, Range 34 East	3985 PSIG
North Vacuum (Abo) North Unit Well No.19-1 Unit Letter H, Section 2, Township 17 South, Range 34 East	4110 PSIG
North Vacuum (Abo) North Unit Well No.19-2 Unit Letter J, Section 2, Township 17 South, Range 34 East	3865 PSIG
North Vacuum (Abo) North Unit Well No.6C-1 Unit Letter B, Section 1, Township 17 South, Range 34 East	4145 PSIG
North Vacuum (Abo) North Unit Well No.7C-2 Unit Letter H, Section 1, Township 17 South, Range 34 East	3800 PSIG
North Vacuum (Abo) North Unit Well No.21A-1 Unit Letter F, Section 2, Township 17 South, Range 34 East	4130 PSIG
North Vacuum (Abo) North Unit Well No.15-1 Unit Letter N, Section 36, Township 16 South, Range 34 East	4255 PSIG
North Vacuum (Abo) North Unit Well No.10-1 Unit Letter D, Section 1, Township 17 South, Range 34 East	3670 PSIG
North Vacuum (Abo) North Unit Well No.13-1 Unit Letter B, Section 2, Township 17 South, Range 34 East	4100 PSIG
North Vacuum (Abo) North Unit Well No.17-1 Unit Letter P, Section 35, Township 16 South, Range 34 East	3480 PSIG

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 - Hobbs
Files: 3rd Q97 PSI-X; Case File No.10103

Handwritten initials

PSI-X N/R

SAGE ENERGY COMPANY

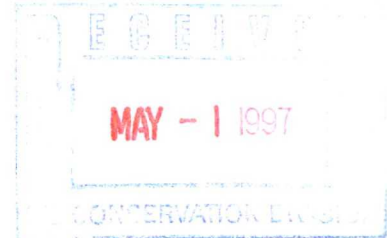
P. O. DRAWER 3068

MIDLAND, TEXAS 79702

915/688-5271

April 24, 1997

State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504



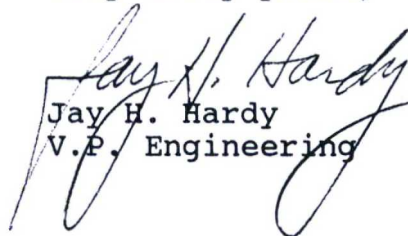
Attn: Mr. William J. LeMay, Director

Re: Injection Pressure Increase
North Vacuum (Abo) North Unit Waterflood Project
Lea County, New Mexico

Dear Mr. LeMay:

Sage Energy Company respectfully requests permission from the OCD to increase the allowable surface injection pressures on sixteen wells as shown on the attached schedule. This request is based on step rate tests which were run April 3-16, 1997.

Very truly yours,


Jay H. Hardy
V.P. Engineering

JHH/tjs

cc: OCD - Hobbs, Bonnie Pritchard
Well Files

SAGE ENERGY COMPANY
NORTH VACUUM (ABO) NORTH UNIT
LEA COUNTY, NEW MEXICO

REQUESTED SURFACE INJECTION PRESSURES

<u>Well and Location</u>	<u>Maximum Surface Inj. Pressure</u>
1. NVANU 2A #1 460' FSL & 1980' FWL Unit N, 1-17S-34E	4200 PSIG 4170
2. NVANU 5B #1 660' FSL & 860' FEL Unit P, 1-17S-34E	4000 PSIG 3945
3. NVANU 14 #1 860' FNL & 660' FWL Unit D, 12-17S-34E	4475 PSIG 4420
4. NVANU 14 #2 1980' FNL & 1780' FWL Unit F, 12-17S-34E	4225 PSIG 4180
5. NVANU 3 #1 1780' FSL & 1980' FEL Unit J, 1-17S-34E	4600 PSIG 4520
6. NVANU 4A #1 1980' FSL & 860' FWL Unit L, 1-17S-34E	4710 PSIG 4680
7. NVANU 1B #1 1980' FNL & 1980' FWL Unit F, 1-17S-34E	4030 PSIG 3985
8. NVANU 19 #1 1980' FNL & 660' FEL Unit H, 2-17S-34E	4125 PSIG 4110
9. NVANU 19 #2 1980' FSL & 1980' FEL Unit J, 2-17s-34E	3920 PSIG 3865
10. NVANU 6C #1 660' FNL & 1980' FEL Unit B, 1-17S-34E	4155 PSIG 4145

SAGE ENERGY COMPANY
NORTH VACUUM (ABO) NORTH UNIT
LEA COUNTY, NEW MEXICO

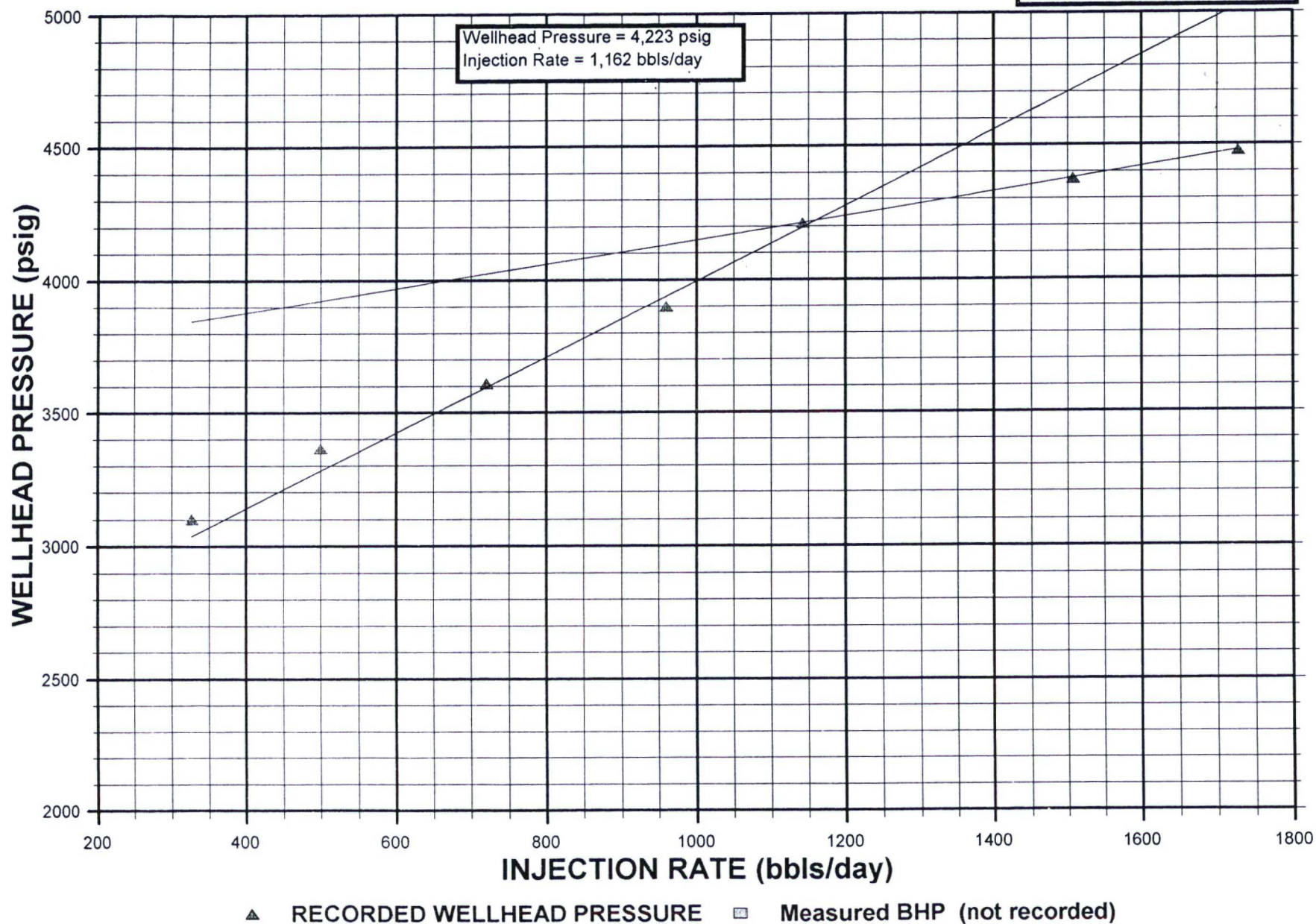
CASE 10103

<u>Well and Location</u>	<u>Maximum Surface Inj. Pressure</u>
11. NVANU 7C #2 1980' FNL & 660' FEL Unit H, 1-17s-34E	3860 PSIG 3800
12. NVANU 21A #1 1980' FNL & 1980' FWL Unit F, 2-17s-34E	4220 PSIG 4130
13. NVANU 15 #1 660' FSL & 1980' FWL Unit N, 36-16S-34E	4290 PSIG 4255
14. NVANU 10 #1 660' FNL & 660' FWL Unit D, 1-17S-34E	3680 PSIG 3670
15. NVANU 13 #1 660' FNL & 1980' FEL Unit B, 2-17S-34E	4120 PSIG 4100
16. NVANU 17 #1 660' FSL & 660' FEL Unit P, 35-16S-34E	3520 PSIG 3480

STEP RATE INJECTION TEST

SAGE ENERGY COMPANY

Well Name:
North Vacuum
ABO North Unit 2"A" No. 1
Lea County, New Mexico



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

STEP RATE INJECTION TEST

CLIENT: SAGE ENERGY COMPANY

DATE: APRIL 3, 1997

WELL NAME: NORTH VACUUM ABO NORTH UNIT 2"A" NO.1
LEA COUNTY, NEW MEXICO

WO#: 97-14-0507

PERFS =

PACKER DEPTH =

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)
	11:25	2964.5				2964.5		
	11:30	2997.7	1.0	288.0	7.460	2990.2	8.40	
	11:35	3127.8	2.2	345.6	10.453	3117.3	10.08	
1	11:40	3105.7	3.4	345.6	10.453	3095.2	10.08	
				326.4				
	11:45	3251.3	5.2	518.4	22.130	3229.2	15.12	
	11:50	3314.3	6.9	489.6	19.910	3294.4	14.28	
2	11:55	3368.3	8.6	489.6	19.910	3348.4	14.28	
				499.2				
	12:00	3510.1	11.1	720.0	40.637	3469.5	21.00	
	12:05	3565.4	13.6	720.0	40.637	3524.8	21.00	
3	12:10	3611.8	16.1	720.0	40.637	3571.2	21.00	
				720.0				
	12:15	3761.3	19.4	950.4	67.918	3693.4	27.72	
	12:20	3861.9	22.8	979.2	71.775	3790.1	28.56	
4	12:25	3901.8	26.1	950.4	67.918	3833.9	27.72	
				960.0				
	12:30	4032.0	30.0	1123.2	92.514	3939.5	32.76	
	12:35	4096.5	33.9	1123.2	92.514	4004.0	32.76	
5	12:40	4215.4	38.0	1180.8	101.482	4113.9	34.44	
				1142.4				
	12:45	4330.4	43.0	1440.0	146.498	4183.9	42.00	
	12:50	4391.1	48.4	1555.2	168.914	4222.2	45.36	
6	12:55	4376.7	53.7	1526.4	163.173	4213.5	44.52	
				1507.2	159.396	-159.4	43.96	
	1:00	4425.7	59.8	1756.8	211.640	4214.1	51.24	
	1:05	4480.0	65.8	1728.0	205.266	4274.7	50.40	
7	1:10	4480.0	71.7	1699.2	198.982	4281.0	49.56	

OUT OF WATER

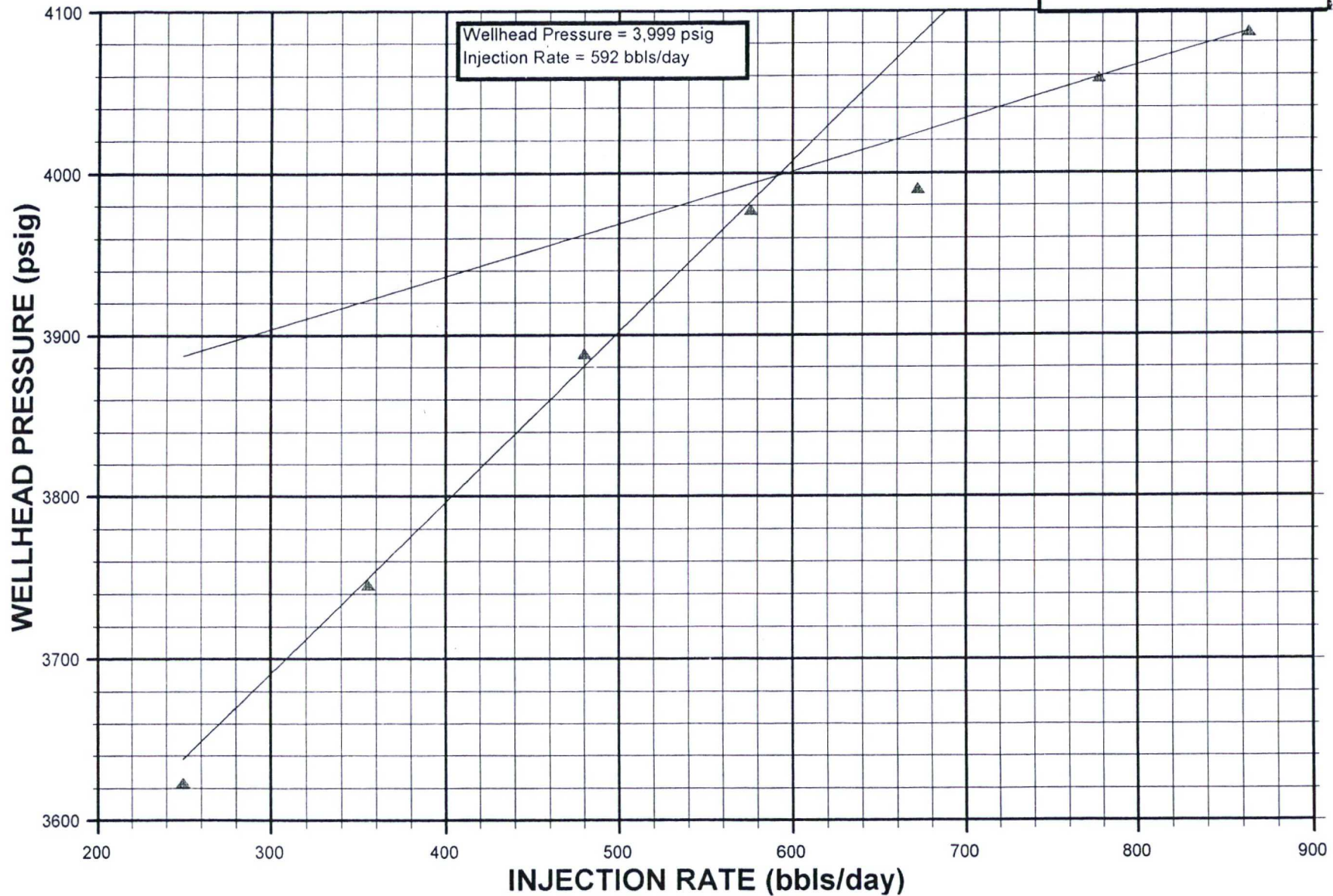
1728.0

STEP RATE INJECTION TEST

SAGE ENERGY COMPANY

Well Name:
North Vacuum
ABO North Unit 5"B" No. 1
Lea County, New Mexico

Wellhead Pressure = 3,999 psig
Injection Rate = 592 bbls/day



▲ RECORDED WELLHEAD PRESSURE ■ Measured BHP (not recorded)

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: SAGE ENERGY COMPANY

DATE: APRIL 2, 1997

WELL NAME: NORTH VACUUM ABO NORTH UNIT 5 "B" NO.1
LEA COUNTY, NEW MEXICO

WO#: 97-14-0505

PERFS =

PACKER DEPTH =

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)
1	10:25	3038.6				3038.6		
	10:30	3549.3	0.8	230.4	4.937	3544.4	6.72	
	10:35	3595.6	1.7	259.2	6.139	3589.5	7.56	
	10:40	3623.7	2.6	259.2	6.139	3617.6	7.56	
2				249.6				
	10:45	3731.9	3.8	345.6	10.453	3721.4	10.08	
	10:50	3744.7	5.1	374.4	12.121	3732.6	10.92	
	10:55	3745.9	6.3	345.6	10.453	3735.4	10.08	
3				355.2				
	11:00	3885.1	7.9	460.8	17.798	3867.3	13.44	
	11:05	3907.0	9.5	460.8	17.798	3889.2	13.44	
	11:10	3888.8	11.3	518.4	22.130	3866.7	15.12	
4				480.0				
	11:15	3964.8	13.3	576.0	26.893	3937.9	16.80	
	11:20	3978.8	15.3	576.0	26.893	3951.9	16.80	
	11:25	3977.4	17.3	576.0	26.893	3950.5	16.80	
5				576.0				
	11:30	3965.6	19.6	662.4	34.828	3930.8	19.32	
	11:35	3980.9	22.0	691.2	37.681	3943.2	20.16	
	11:40	3991.1	24.3	662.4	34.828	3956.3	19.32	
6				672.0				
	11:45	4041.4	27.0	777.6	46.855	3994.5	22.68	
	11:50	4047.7	29.7	777.6	46.855	4000.8	22.68	
	11:55	4059.2	32.4	777.6	46.855	4012.3	22.68	
7				777.6				
	12:00	4082.3	35.4	864.0	56.939	4025.4	25.20	
	12:05	4097.7	38.4	864.0	56.939	4040.8	25.20	
	12:10	4087.3	41.4	864.0	56.939	4030.4	25.20	

864.0

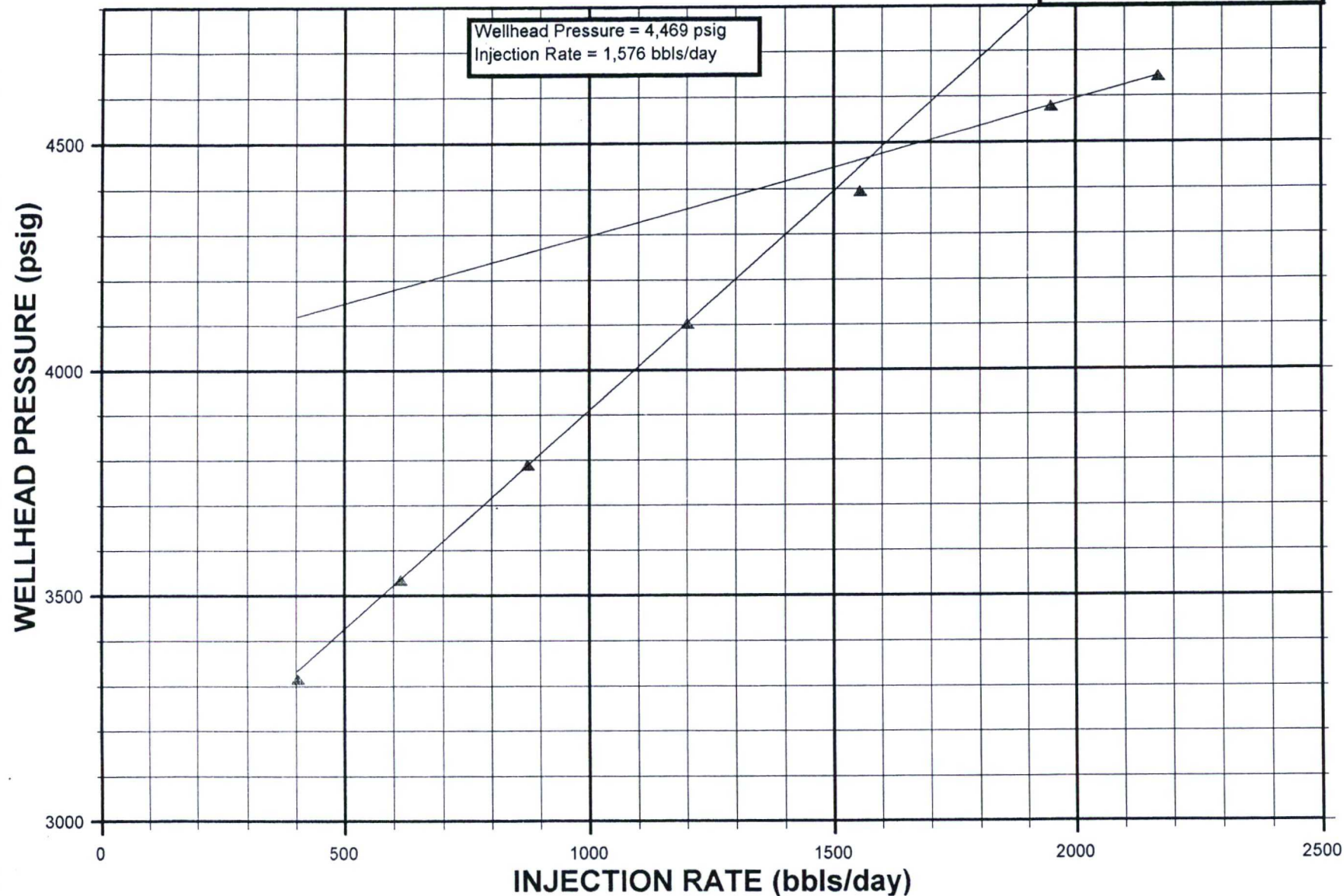
Page 2

STEP RATE INJECTION TEST

SAGE ENERGY COMPANY

Well Name:
North Vacuum
ABO North Unit 14 No. 1
Lea County, New Mexico

Wellhead Pressure = 4,469 psig
Injection Rate = 1,576 bbls/day



▲ RECORDED WELLHEAD PRESSURE ■ Measured BHP (not recorded)

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

STEP RATE INJECTION TEST

CLIENT: SAGE ENERGY COMPANY

DATE: APRIL 8, 1997

WELL NAME: NORTH VACUUM ABO NORTH UNIT 14 NO. 1
LEA COUNTY, NEW MEXICO

WO#: 97-14-0508

PERFS =

PACKER DEPTH =

BHP GAUGE DEPTH = SURFACE ONLY

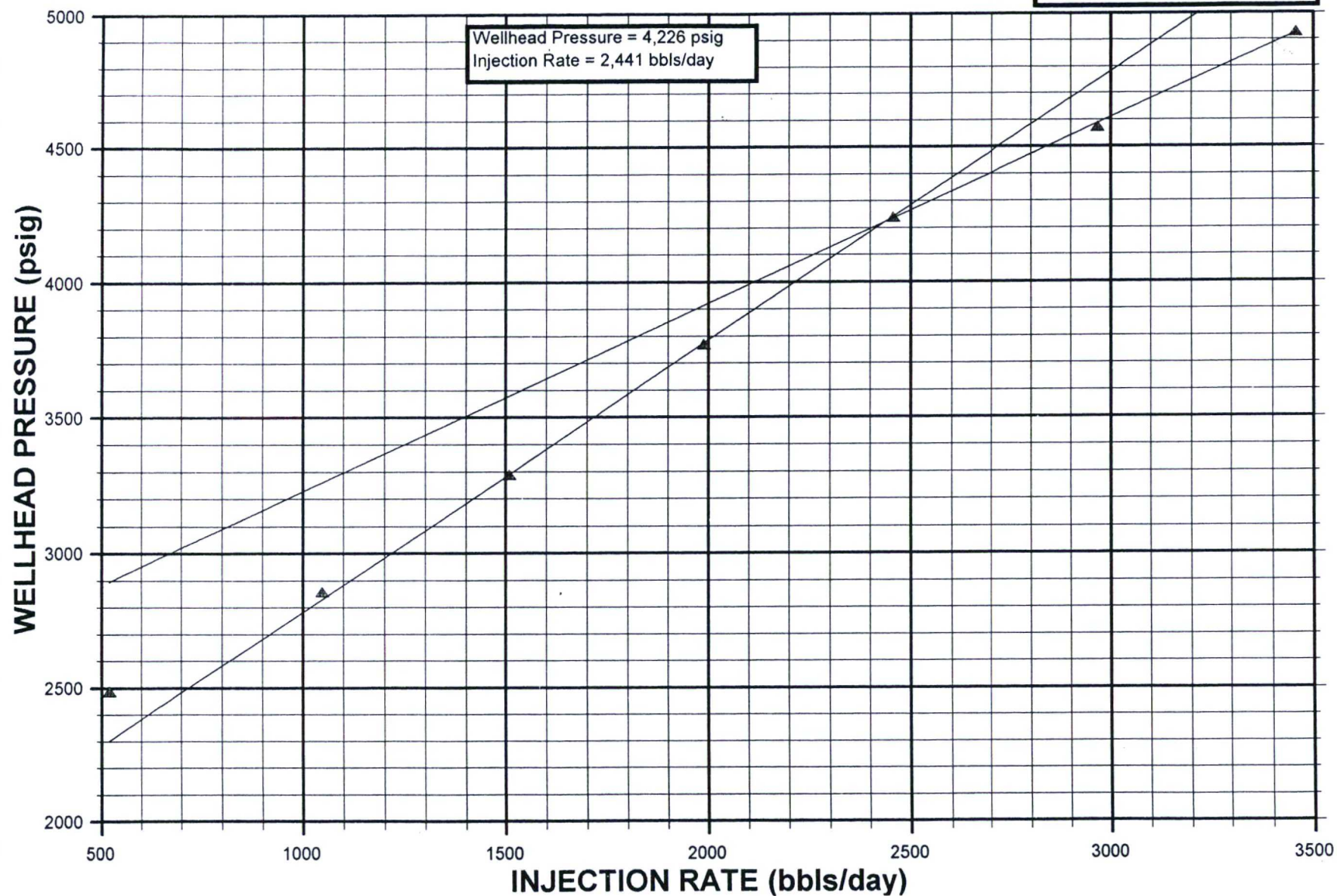
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	8:15	3115.0				3115.0		
	8:20	3224.5	1.3	374.4	12.121	3212.4	10.92	
	8:25	3279.8	2.7	403.2	13.902	3265.9	11.76	
	8:30	3317.1	4.2	432.0	15.795	3301.3	12.60	
2				403.2				
	8:35	3435.6	6.3	604.8	29.434	3406.2	17.64	
	8:40	3484.6	8.5	633.6	32.079	3452.5	18.48	
	8:45	3537.3	10.6	604.8	29.434	3507.9	17.64	
3				614.4	30.304	-30.3	17.92	
	8:50	3667.5	13.7	892.8	60.500	3607.0	26.04	
	8:55	3716.4	16.8	892.8	60.500	3655.9	26.04	
	9:00	3791.1	19.7	835.2	53.478	3737.6	24.36	
4				873.6				
	9:05	3960.0	23.8	1180.8	101.482	3858.5	34.44	
	9:10	4050.2	28.1	1238.4	110.829	3939.4	36.12	
	9:15	4104.5	32.2	1180.8	101.482	4003.0	34.44	
5				1200.0				
	9:20	4248.0	37.7	1584.0	174.746	4073.3	46.20	
	9:25	4353.9	43.0	1526.4	163.173	4190.7	44.52	
	9:30	4396.5	48.4	1555.2	168.914	4227.6	45.36	
6				1555.2				
	9:35	4534.8	55.4	2016.0	273.004	4261.8	58.80	
	9:40	4529.5	62.0	1900.8	244.846	4284.7	55.44	
	9:45	4579.9	68.7	1929.6	251.753	4328.1	56.28	
7				1948.8				
	9:50	4654.8	76.3	2188.8	317.865	4336.9	63.84	
	9:55	4670.2	83.8	2160.0	310.170	4360.0	63.00	
	10:00	4645.5	91.3	2160.0	310.170	4335.3	63.00	
				2169.6				

STEP RATE INJECTION TEST

SAGE ENERGY COMPANY

Well Name:
North Vacuum
ABO North Unit 14 No. 2
Lea County, New Mexico

Wellhead Pressure = 4,226 psig
Injection Rate = 2,441 bbls/day



▲ RECORDED WELLHEAD PRESSURE ■ Measured BHP (not recorded)

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

STEP RATE INJECTION TEST

CLIENT: SAGE ENERGY COMPANY

DATE: APRIL 8, 1997

WELL NAME: NORTH VACUUM ABO NORTH UNIT 14 NO.2
LEA COUNTY, NEW MEXICO

WO#: 97-14-0509

PERFS =

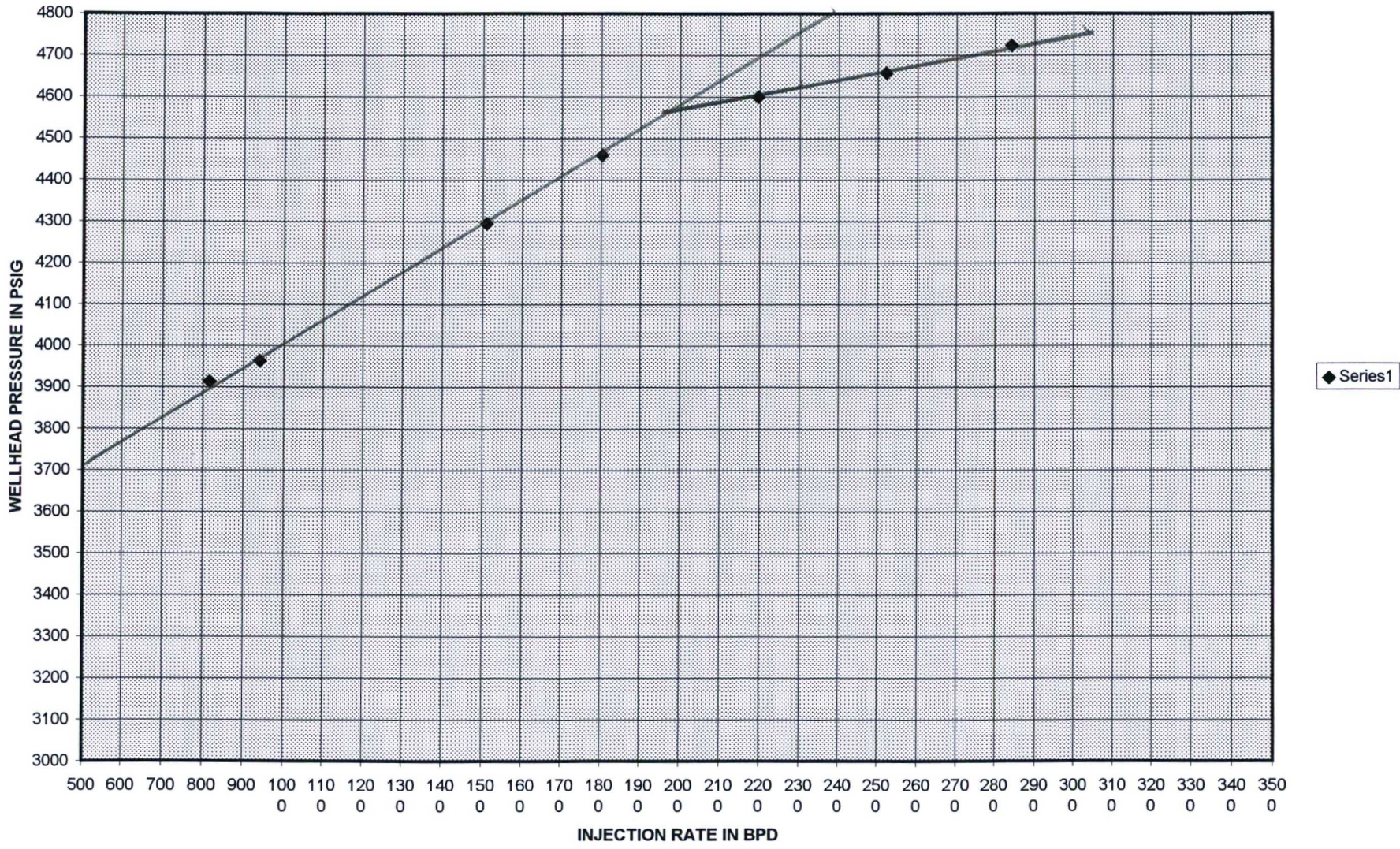
PACKER DEPTH =

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)
1	10:50	2273.6				2273.6		
	10:55	2387.5	1.8	518.4	22.130	2365.4	15.12	
	11:00	2439.8	3.6	518.4	22.130	2417.7	15.12	
	11:05	2489.6	5.4	518.4	22.130	2467.5	15.12	
				518.4				
2	11:10	2738.8	9.0	1036.8	79.780	2659.0	30.24	
	11:15	2814.5	12.6	1036.8	79.780	2734.7	30.24	
	11:20	2863.2	16.3	1065.6	83.929	2779.3	31.08	
				1046.4				
3	11:25	3148.9	21.5	1497.6	157.523	2991.4	43.68	
	11:30	3236.5	26.8	1526.4	163.173	3073.3	44.52	
	11:35	3291.9	32.0	1497.6	157.523	3134.4	43.68	
				1507.2				
4	11:40	3645.2	39.0	2016.0	273.004	3372.2	58.80	
	11:45	3747.1	45.8	1958.4	258.749	3488.4	57.12	
	11:50	3772.7	52.7	1987.2	265.832	3506.9	57.96	
				1987.2				
5	11:55	4135.5	61.2	2448.0	390.987	3744.5	71.40	
	12:00	4185.8	69.7	2448.0	390.987	3794.8	71.40	
	12:05	4242.6	78.3	2476.8	399.539	3843.1	72.24	
				2457.6				
6	12:10	4635.7	88.6	2966.4	557.810	4077.9	86.52	
	12:15	4668.0	98.9	2966.4	557.810	4110.2	86.52	
	12:20	4577.3	109.2	2966.4	557.810	4019.5	86.52	
				2966.4				
7	12:25	4957.6	121.6	3571.6	786.425	4171.2	104.17	
	12:30	4954.8	133.3	3369.6	706.124	4248.7	98.28	
	12:35	4932.7	145.2	3427.2	728.616	4204.1	99.96	
				3456.0				

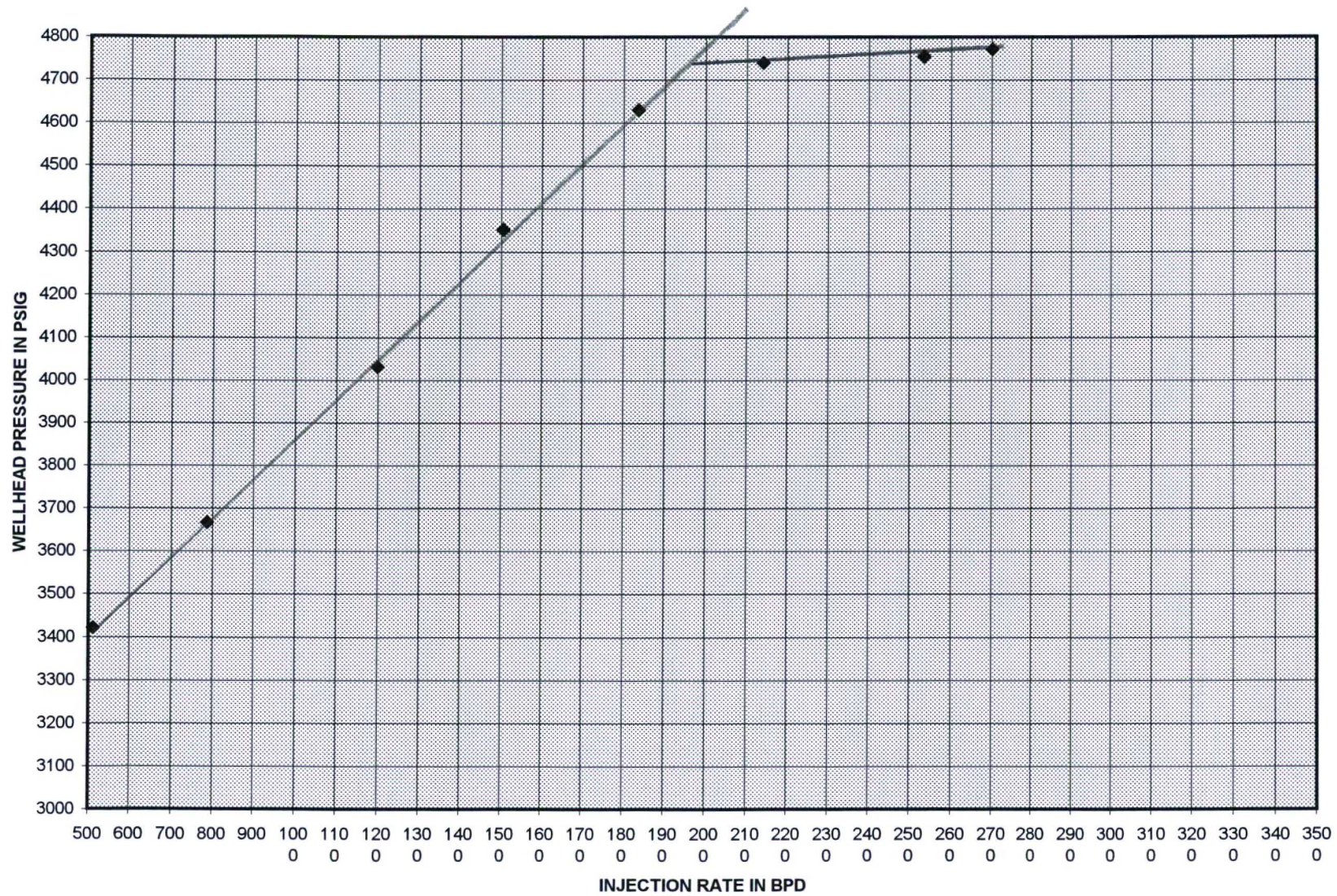
Page 2

STEP RATE TEST SAGE ENERGY NVANU ³ 4-29-97



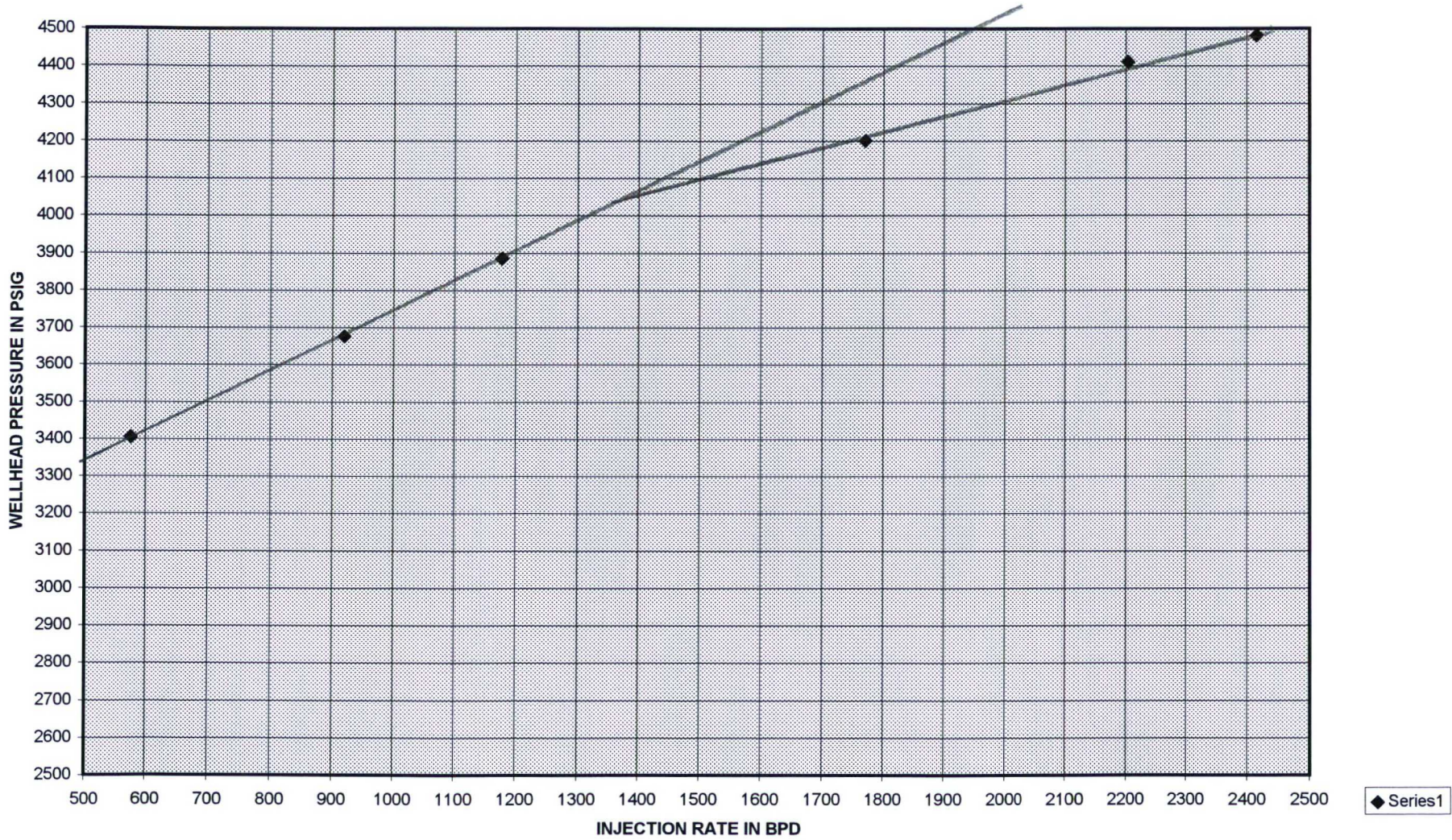
STAGE #	RATE	PRESSUR
INITIAL	0	3140
1	816	3914
2	939	3964
3	1510	4296
4	1801	4460
5	2194	4600
6	2520	4658
7	2841	4723
8		
ISIP	0	4200
5 MIN	0	4010
10 MIN	0	3941
15 MIN	0	3892

STEP RATE TEST SAGE ENERGY NVANU 4A-1 4-29-97



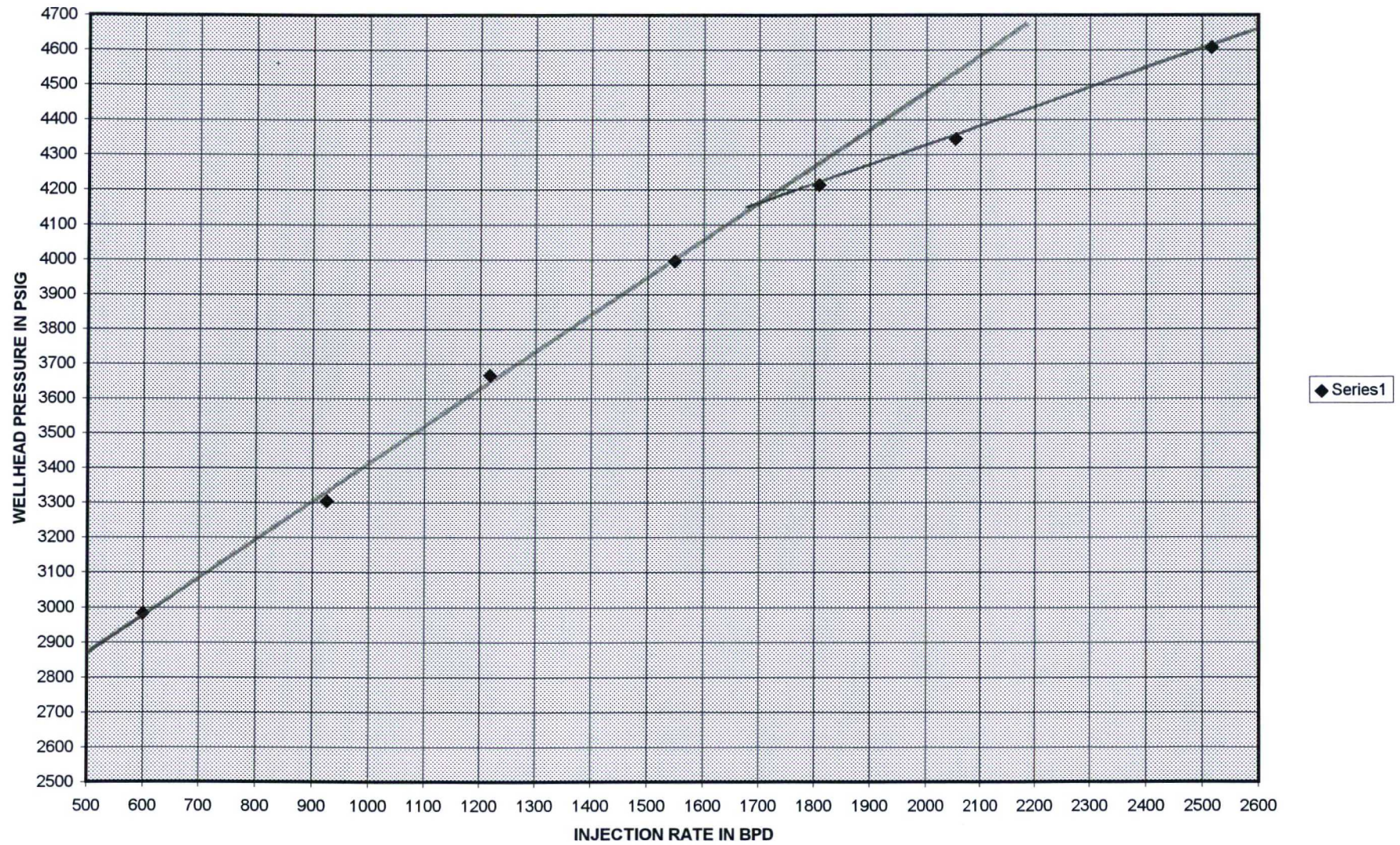
STAGE #	RATE	PRESSURE
INITIAL	0	3130
1	512	3421
2	786	3667
3	1198	4032
4	1504	4352
5	1835	4631
6	2139	4740
7	2533	4755
8	2700	4772
ISIP	0	4335
5 MIN	0	4157
10 MIN	0	4085
15 MIN	0	4032

STEP RATE TEST SAGE ENERGY NVANU 1B-1 4-29-97



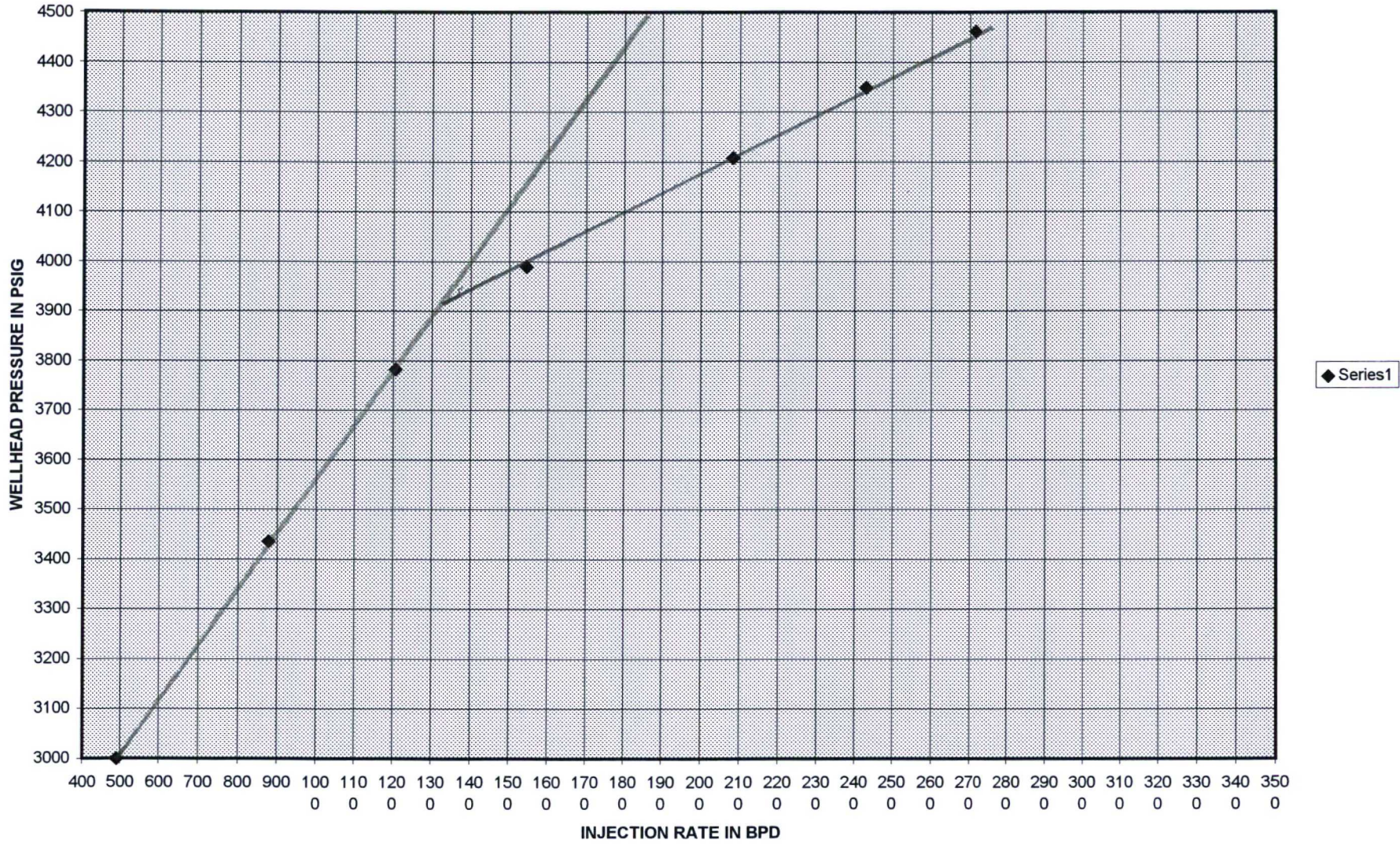
STAGE #	RATE	PRESSURE
INITIAL	0	2706
1	576	3405
2	919	3677
3	1177	3885
4	1769	4201
5	2203	4412
6	2415	4482
ISIP	0	4415
5 MIN	0	4057
10 MIN	0	4016
15 MIN	0	3983

STEP RATE TEST SAGE ENERGY NVANU 19-1 4-29-97



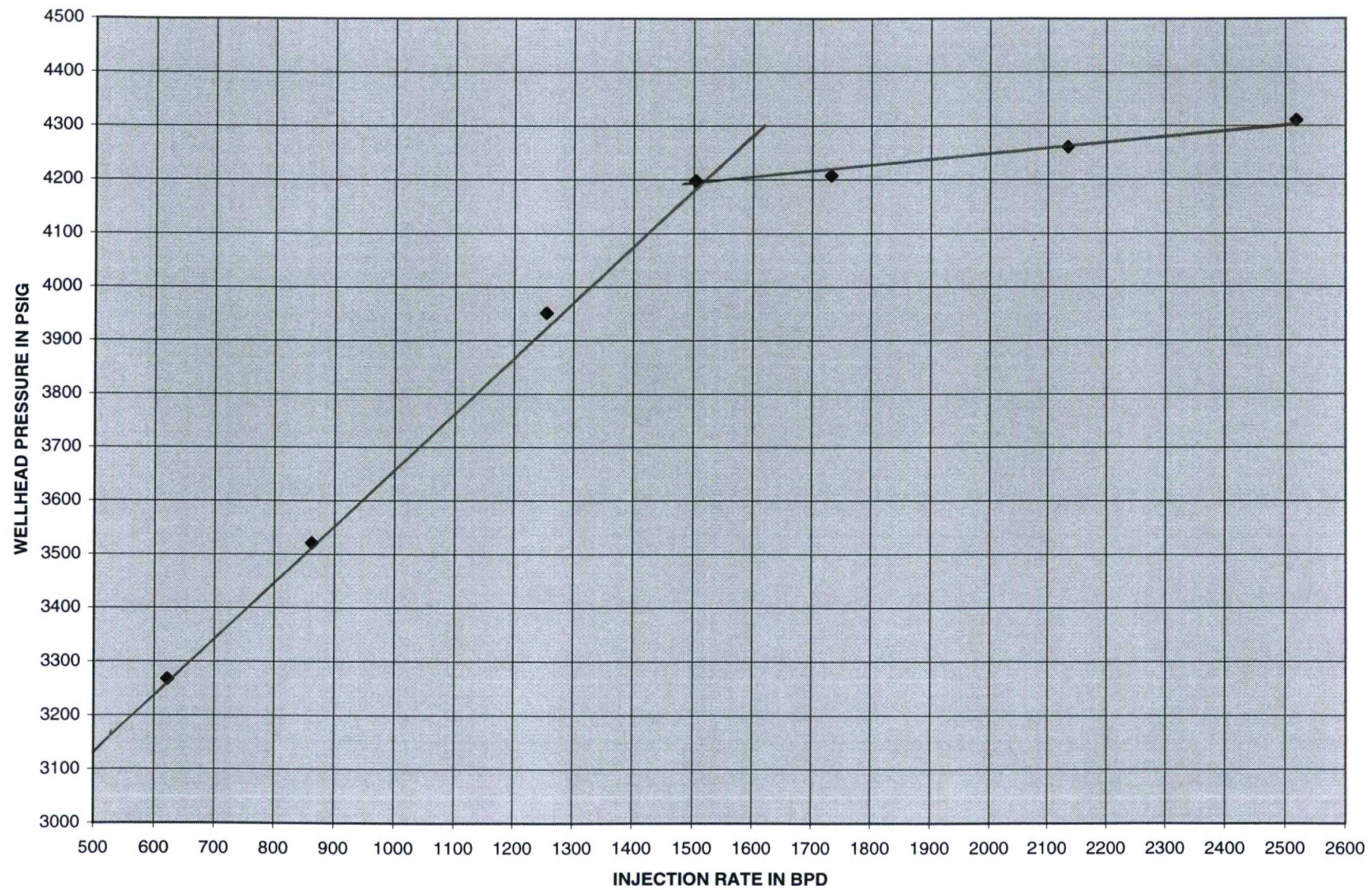
STAGE #	RATE	PRESSURE
INITIAL	0	2580
1	599	2983
2	925	3305
3	1218	3667
4	1547	3995
5	1807	4213
6	2053	4346
7	2517	4608
ISIP	0	4214
5 MIN	0	4080
10 MIN	0	4006
15 MIN	0	3951

STEP RATE TEST SAGE ENERGY NVANU 19-2 4-29-97



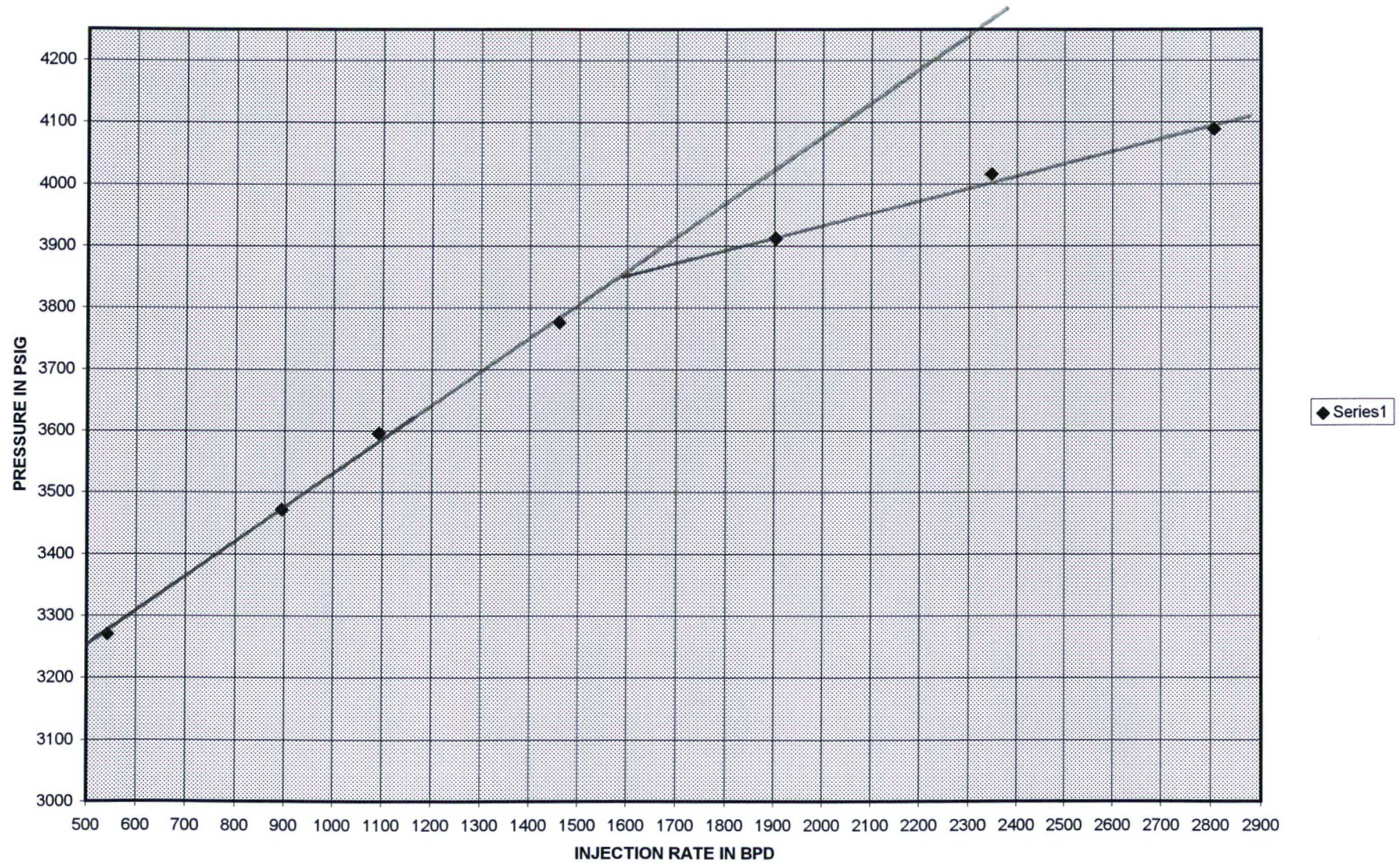
STAGE #	RATE	PRESSURE
INITIAL	0	2409
1	491	3000
2	877	3435
3	1205	3782
4	1543	3990
5	2083	4208
6	2427	4349
7	2715	4461
ISIP	0	3867
5 MIN	0	3779
10 MIN	0	3716
15 MIN	0	3669

STEP RATE TEST SAGE ENERGY NVANU 6C-1 4-29-97



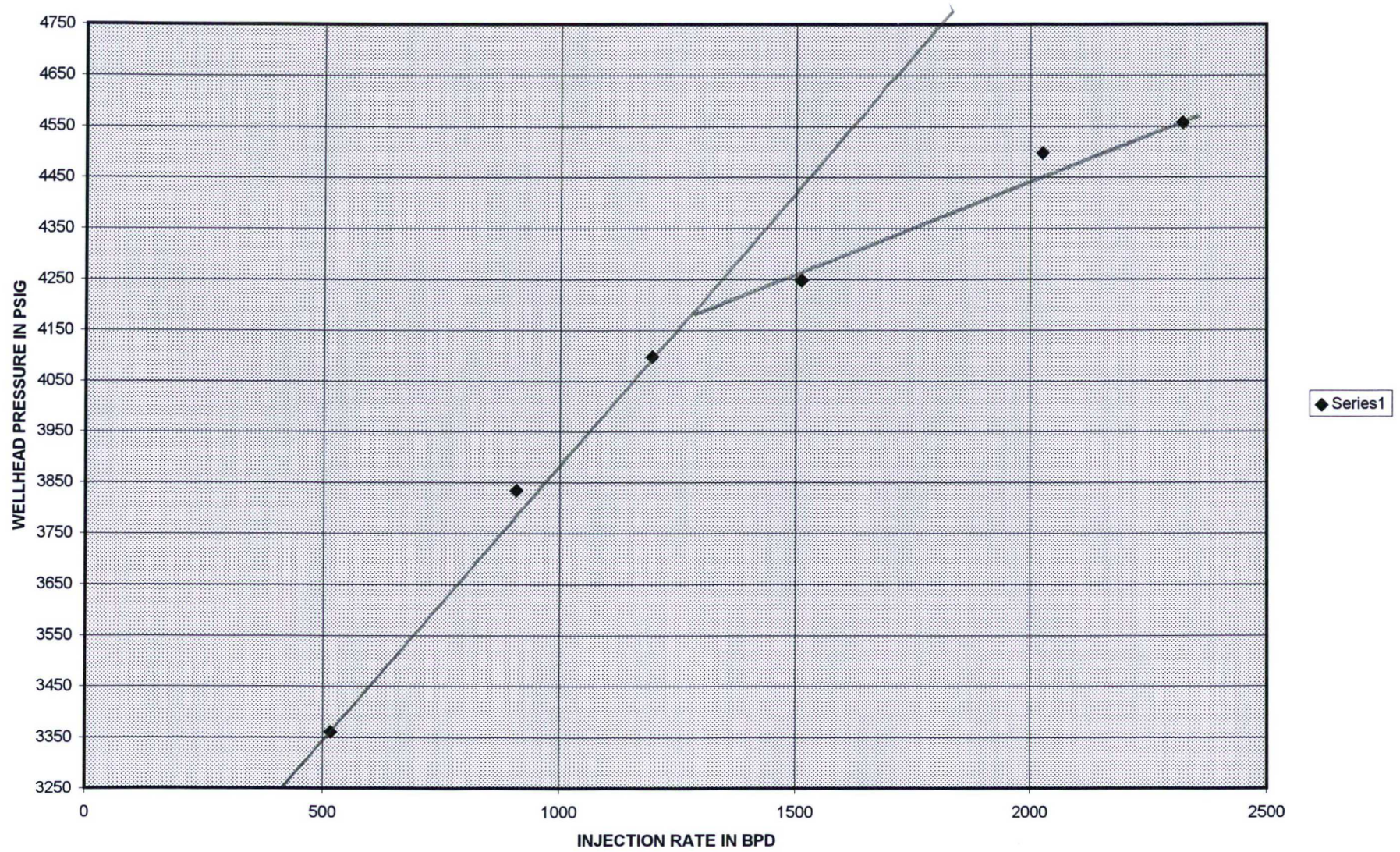
STAGE #	RATE	PRESSURE
INITIAL	0	2612
1	621	3268
2	862	3521
3	1254	3952
4	1503	4198
5	1732	4208
6	2134	4261
7	2518	4311
ISIP	0	4132
5 MIN	0	4104
10 MIN	0	4025
15 MIN	0	3987

STEP RATE TEST SAGE ENERGY NVANU 7C-2 4-29-97



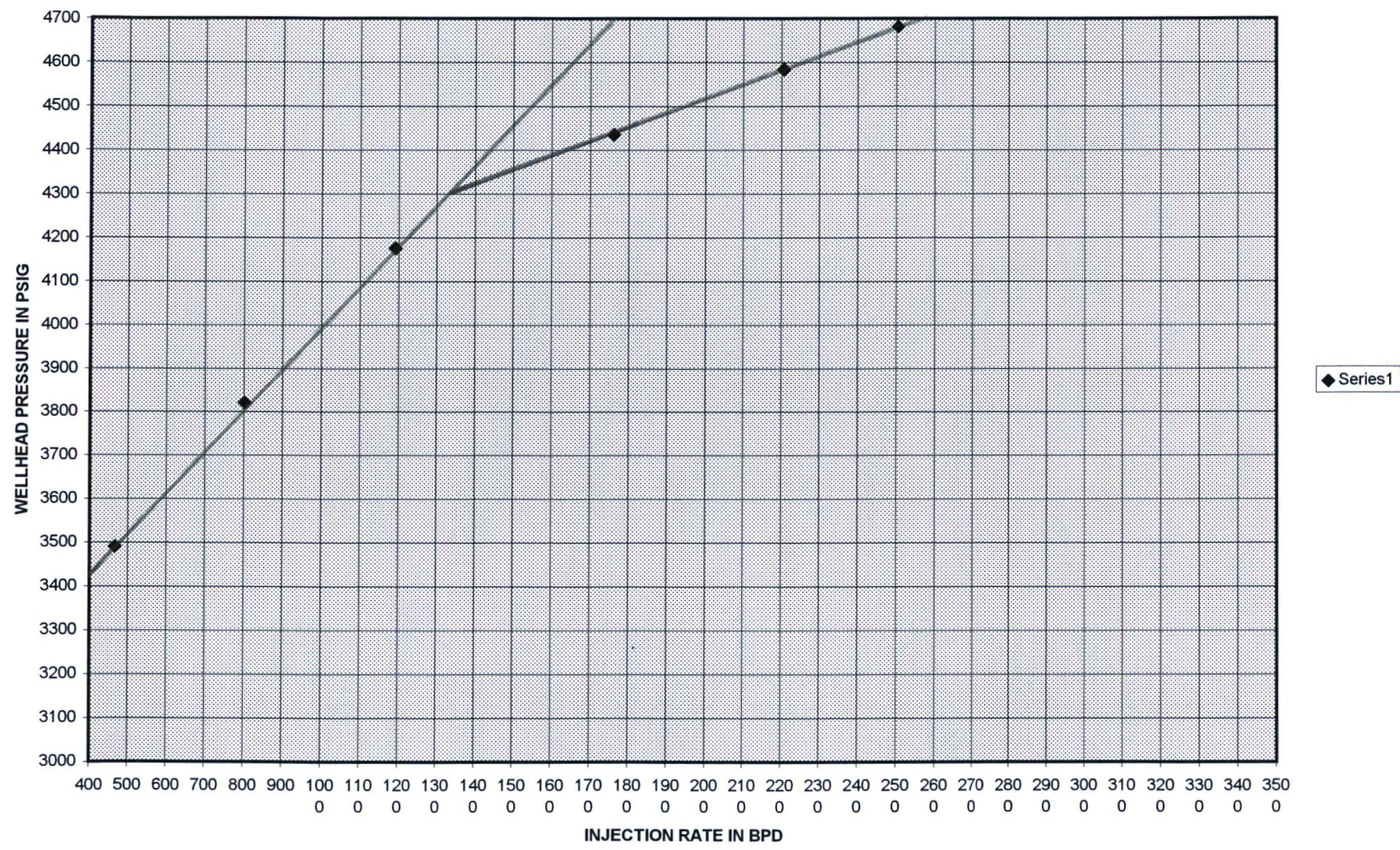
STAGE #	RATE	PRESSURE
INITIAL	0	3080
1	543	3271
2	894	3472
3	1092	3596
4	1460	3777
5	1902	3912
6	2347	4016
7	2806	4089
ISIP	0	3704
5 MIN	0	3676
10 MIN	0	3660
15 MIN	0	3641

STEP RATE TEST SAGE ENERGY NVANU 21A-1 4-29-97



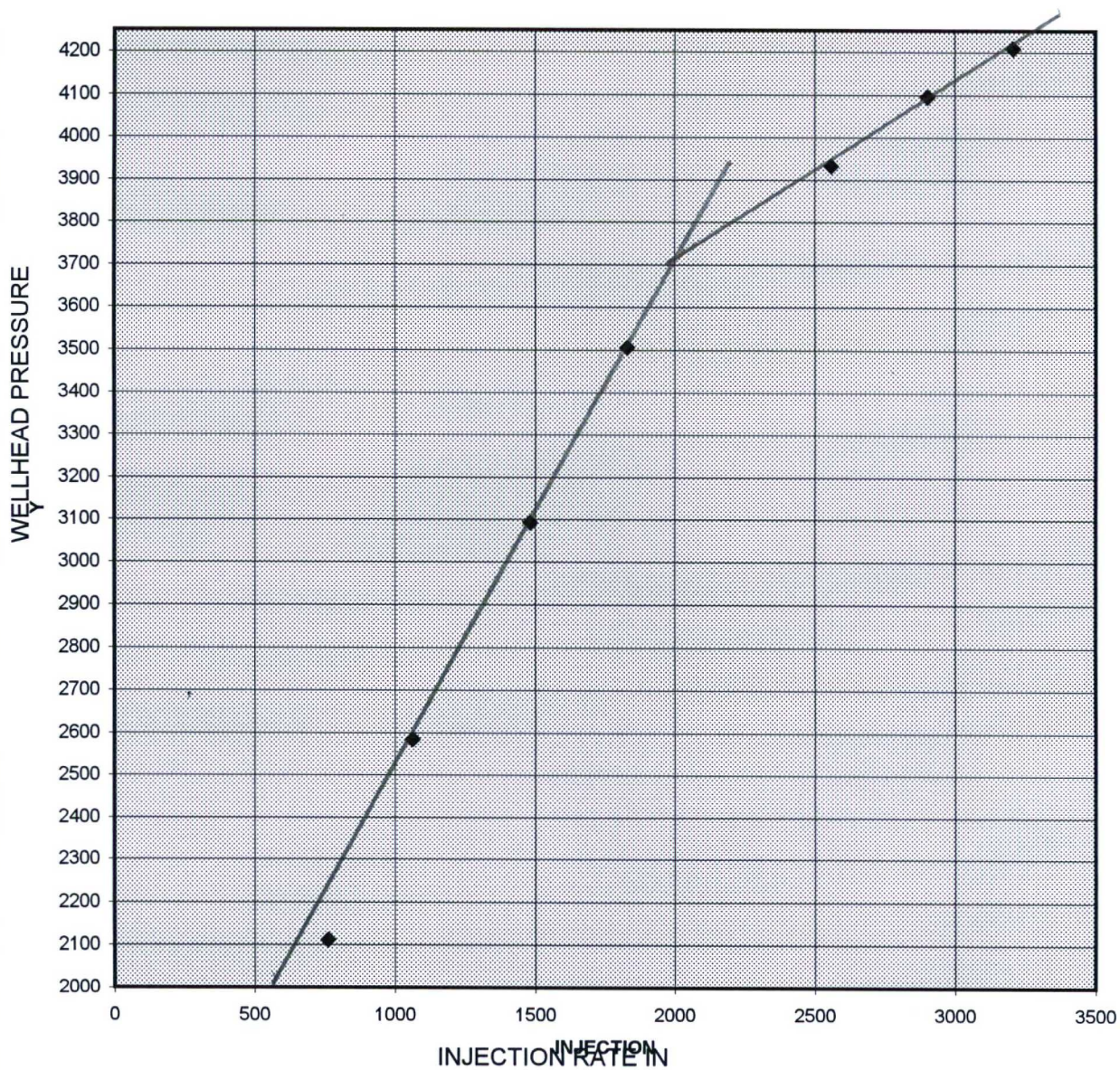
STAGE #	RATE	PRESSURE
INITIAL	0	2706
1	516	3361
2	907	3834
3	1195	4098
4	1510	4248
5	2026	4498
6	2326	4557
ISIP	0	4150
5 MIN	0	4058
10 MIN	0	4015
15 MIN	0	3986

STEP RATE TEST SAGE ENERGY NVANU 15-1 4-29-97



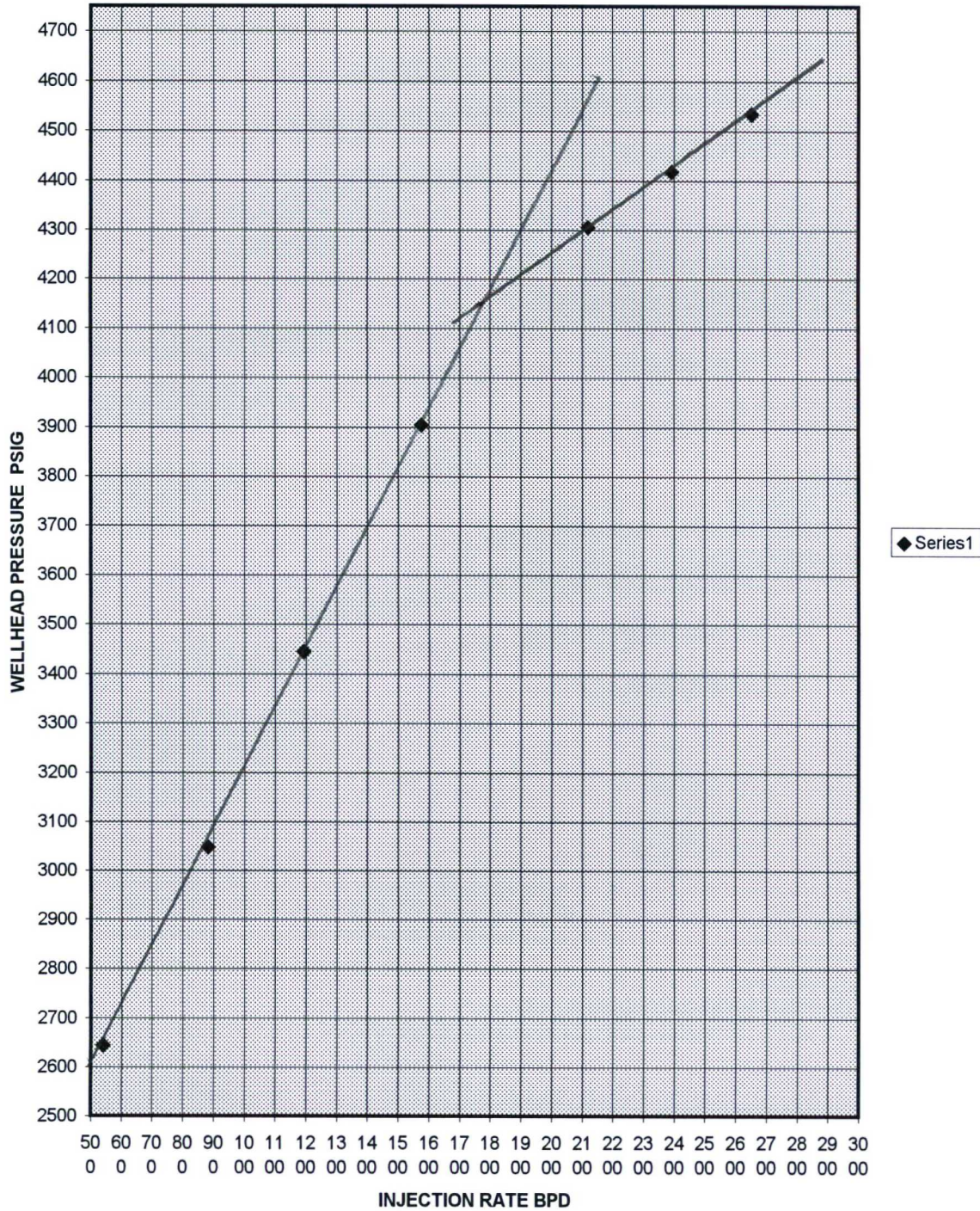
STAGE #	RATE	PRESSURE
INITIAL	0	3100
1	466	3491
2	802	3821
3	1190	4175
4	1760	4436
5	2205	4584
6	2504	4682
7		
8		
ISIP	0	4278
5 MIN	0	4213
10 MIN	0	4163
15 MIN	0	4122

STEP RATE TEST SAGE ENERGY NVANU 10-1 4-29-97
Title



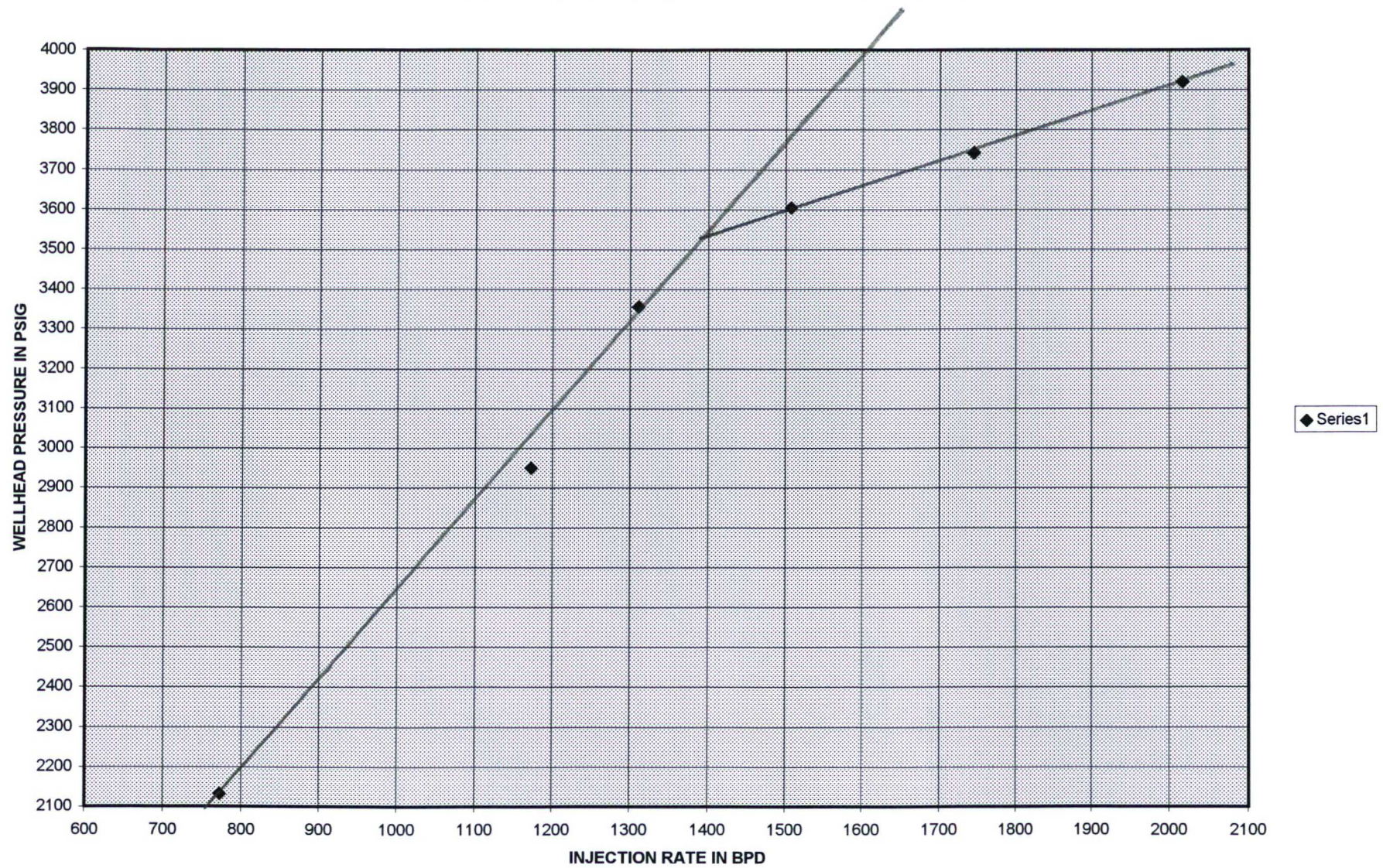
STAGE #	RATE BP	PRESSURE
INITIAL	0	1520
1	761	211
2	1061	2585
3	1481	3092
4	1829	3505
5	2558	3933
6	2902	4095
7	3206	4208
ISIP	0	3639
5 MIN	0	3434
10 MIN	0	3322
15 MIN	0	3230

STEP RATE TEST SAGE ENERGY NVANU 13-1 4-29-97



STAGE #	RATE BP	PRESSURE
INITIAL	0	1875
1	539	2645
2	882	3048
3	1193	3445
4	1575	3904
5	2119	4305
6	2392	4418
7	2651	4534
ISIP	0	4047
5 MIN	0	3781
10 MIN	0	3597
15 MIN	0	3471

STEP RATE TEST SAGE ENERGY NVANU 17-1 4-29-97



STAGE #	RATE	PRESSURE
INITIAL	0	970
1	772	2132
2	1172	2950
3	1310	3357
4	1507	3605
5	1744	3742
6	2016	3920
ISIP	0	3595
5 MIN	0	3310
10 MIN	0	3106
15 MIN	0	2960



R 34 E

R 35 E

Sage Energy Company
Midland, Texas

- INJECTION WELL
- UNIT BOUNDARY
- PROPOSED INJECTION WELL
- PROPOSED PRODUCING WELL

PROPOSED NORTH VACUUM (ABO) NORTH UNIT
LEA COUNTY, NEW MEXICO

T16 S, R34 E
T17 S, R34 E

Scale: 0 1000 2000 3000 4000 1988