



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

October 31, 1997

The Wiser Oil Company
P.O. Drawer 2568
Hobbs, New Mexico 88241-2568

Attn: Ms. Stacey Crawford

CF 3307
R-2975

WFX 650
PDEV0020600650
WFX 677
PDEV0020600677

**RE: Injection Pressure Increase,
Maljamar Grayburg Unit Waterflood Project,
Eddy County, New Mexico**

Dear Ms. Crawford:

Reference is made to your request dated July 16, 1997, and additional data submitted on October 8, 1997, to increase the surface injection pressure on a field-wide group of wells in the above referenced waterflood project. This request is based on 9 step rate tests conducted between May 14 and September 30, 1997. The results of the tests have been reviewed by my staff. Injection pressure increases on two wells which were tested, the MGBU Nos.8 and 15 and adjacent wells to be affected, well numbers 4, 152 and 154, are hereby denied due to questionable test results. At this time, we feel an increase in injection pressure on the remaining 7 wells with recent tests, 7 adjacent wells affected by these tests, and 4 wells to be affected by previous test data should be approved.

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

<i>Recently Tested Well Name and Number</i>	<i>Adjacent Well Name and Number</i>	<i>Section 4 ULSTR</i>	<i>Authorized Pressure</i>
MGBU Well No.20		J-4-17S-32E	2130 PSIG
	MGBU Well No.17	G-4-17S-32E	2290 PSIG
	MGBU Well No.27	O-4-17S-32E	2290 PSIG
MGBU Well No.28		P-4-17S-32E	2430 PSIG
	MGBU Well No.10	M-5-17S-32E	2290 PSIG
	MGBU Well No.19	I-4-17S-32E	2290 PSIG
MGBU Well No.18		H-4-17S-32E	2430 PSIG
MGBU Well No.21		K-4-17S-32E	2250 PSIG
MGBU Well No.153		N-4-17S-32E	2205 PSIG

Note: The mean injection pressure of all Section 4 step rate tested wells (2290 psig) was used to apply to all adjacent Section 4 (Well No.10 in Section 5) wells.

Further, the following 3 adjacent wells located in Section 10 are hereby approved for injection pressure increases based on recent step rate tests on 2 wells:

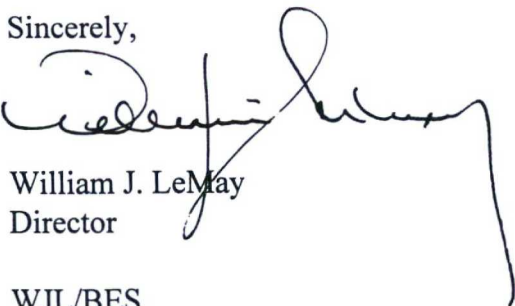
<i>Recently Tested Well Name and Number</i>	<i>Adjacent Well Name and Number</i>	<i>Section 10 ULSTR</i>	<i>Authorized Pressure</i>
MGBU Well No.51		C-10-17S-32E	2110 PSIG
	MGBU Well No.151	B-10-17S-32E	2110 PSIG
MGBU Well No.53		E-10-17S-32E	1900 PSIG
	MGBU Well No.155	F-10-17S-32E	1900 PSIG
	MGBU Well No.59	K-10-17S-32E	1900 PSIG

Additionally, the following 4 adjacent wells located in Section 3 are hereby approved for injection pressure increases based on previous step rate test results obtained on 2 wells:

<i>Previously Tested Well Name and Number</i>	<i>Adjacent Well Name and Number</i>	<i>Section 3 ULSTR</i>	<i>Authorized Pressure</i>
MGBU Well No.6		I-3-17S-32E	1594 PSIG
	MGBU Well No.5	H-13-17S-32E	1594 PSIG
	MGBU Well No.13	P-3-17S-32E	1594 PSIG
MGBU Well No.150		J-3-17S-32E	1713 PSIG
	MGBU Well No.11	N-3-17S-32E	1713 PSIG
	MGBU Well No.12	O-3-17S-32E	1713 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 - Artesia
File: Case File No3507; WFXs-650 and 677; PSI-X 2ndQTR 98

PSI-X N/R



THE WISER OIL COMPANY

P.O. BOX 2568 • HOBBS, NM 88241
(Phone) 505-392-9797
(FAX) 505-392-8971



July 16, 1997

Mr. David Catanach
State UIC Director
New Mexico Oil Conservation Division
P.O. Box 6429
Santa Fe, NM 87505-6429

Re: Petition for higher surface injection press. for Maljamar WIW's Wiser operated, Lea County, NM.

Dear David:

As per our agreed upon procedure of step-rate testing 1 MGBU injection well for every 3 WIW's we would like to submit the following step-rate tests for your approval.

MGBU	MAX. PRESS.
#6 (prior test) for 5 and 13.	1594#
#150 (prior test) for 11 and 12.	1713#
#8 itself and 4. 620 PSI	To be determined.
#20 itself and 17 and 27. 2130	To be determined.
#15 itself and 152 and 154. 980	To be determined.
#51 itself and 151. 2110	To be determined.
#53 itself and 155 and 59. 1900	To be determined.
#28 itself and 10 and 19. NO BREAK	To be determined.

We would also like to request to run step-rate tests on MGBU #35, 18 and 21. If MGBU #35 step-rate test will cover MGBU #153 and 25 this should conclude the step-rate testing on our MGBU.

We appreciate your time and effort in giving timely OCD approval to expedite waterflood response.

July 16, 1997

Sincerely,



G.M. Jones

GMJ/smc

Cc: Earl Krieg, Matt Eagleston, Bonnie Jones (J.O. Easley)

Attachments

NOTE TO FILE:

CANNOT PERMIT A 3 for 1
(FIELD-WIDE) INCREASE BASED ON
SUCH WIDELY VARYING NUMBERS.

10.30.97 



FAX TRANSMITTAL
THE WISER OIL COMPANY
8504 W. COUNTY ROAD
(Phone) 505-392-9797
(Fax) 505-392-8971

TO: -Ben Stone

COMPANY: NMOC

FAX NUMBER: 827-1389

FROM: Stacy

DATE: _____ TIME: _____

NO. OF PAGES 4
(INCLUDING COVER PAGE)

____ ORIGINAL DOCUMENT WILL FOLLOW BY MAIL.

____ ORIGINAL DOCUMENT WILL NOT FOLLOW BY MAIL.

COMMENTS:

Thank you for all your help.



THE WISER OIL COMPANY

P.O. BOX 2568 • HOBBS, NM 88241
(Phone) 505-392-9797
(FAX) 505-392-8971

August 5, 1997

Mr. David Catanach
State UIC Director
New Mexico Oil Conservation Division
P.O. Box 6429
Santa Fe, NM 87505-6429

Re: Petition for higher surface injection press. for Maljamar WIW's, Wiser operated, Lea County, NM.

Dear David:

As per our agreed upon procedure of step-rate testing 1 Skelly Unit injection well for every 3 SU WIW's we would like to submit the following step-rate tests for your approval:

SU

19 for itself, 18 and 19.
20 for itself, 17 and 106.
21 for itself, 108 and 114.
104 for itself, 103 and 105.
110 for itself, 22 and 102.
27 for itself, 28 and 29.
26 for itself, 30 and 31.
25 for itself, 24 and 32.
23 for itself, 33 and 34.
35 for itself, 38 and 39.
64 for itself, 62 and 63.
65 for itself, 60 and 61.
66 for itself, 3 and 59.
43 for itself, 44 and 101.
45 for itself, 42 and 46.

47 for itself, 40 and 41.
68 for itself, 67 and 76.
74 for itself, 75 and 302
54 for itself, 11 and 55.
93 for itself, 100 and 301.
94 for itself, 98 and 99.
89 for itself, 88 and 90.
87 for itself, 77 and 95.
86 for itself, 96 and 107.
85 for itself, 84 and 97.
80 for itself, 71 and 81.
79 for itself, 82 and 83.
49 for itself, 48 and 72.
53 for itself, 57 and 78.
58 for itself, 57 and 78.
51 for itself and 73.

When approval is given on the wells and tests previously mentioned we will have the necessary pressures to adequately waterflood our SU.

We appreciate your time and effort in giving timely OCD approval to expedite waterflood response.

Best regards,

A handwritten signature in cursive script, appearing to read "G. M. Jones", with a long horizontal flourish extending to the right.

G. M. Jones

GMJ/smc

Cc: Earl Krieg, Matt Eagleston, Bonnie Jones (J.O. Easley)

P. O. BOX 5254
MIDLAND, TEXAS 79704

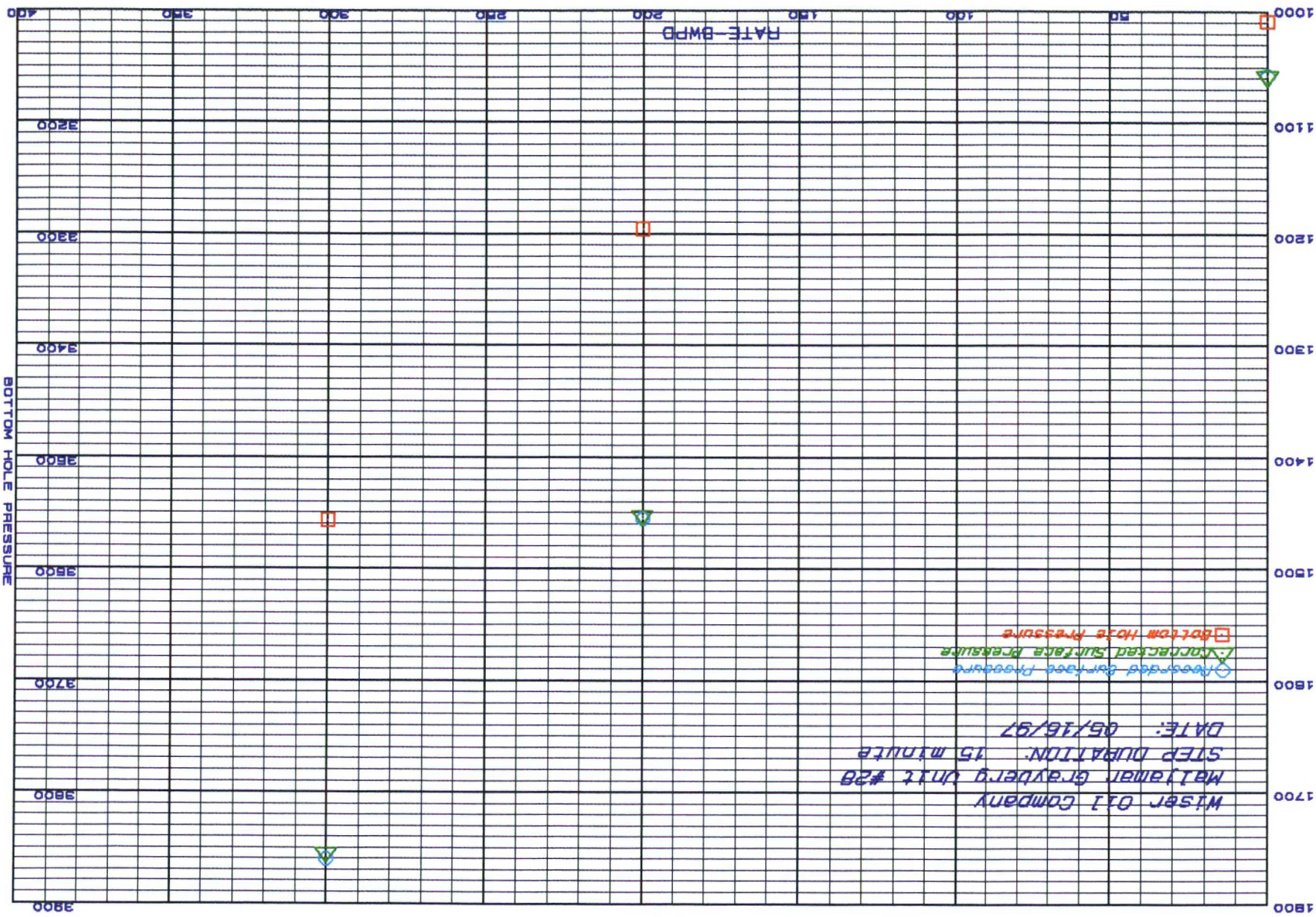


PHONE
915/682-7580

COMPANY: Wiser Oil Company
LEASE: Maljamar Grayberg Unit #28
BOMB DEPTH: 3965
TUBING: 1.875 in. I.D. pc tubing set @ 3810 feet
TEST DATE: 05/16/97
DURATION OF STEPS: 15 minute

POINT	TIME	RATE (BWPD)	GAUGE	FRICTION	CORRECTED	BHP
	10:30		1058	0.0	1058	3109
1	10:45	200	1455	2.5	1452	3296
2	11:00	300	1760	5.1	1755	3557

SURFACE & CORRECTED PRESSURE



P. O. BOX 5254
MIDLAND, TEXAS 79704

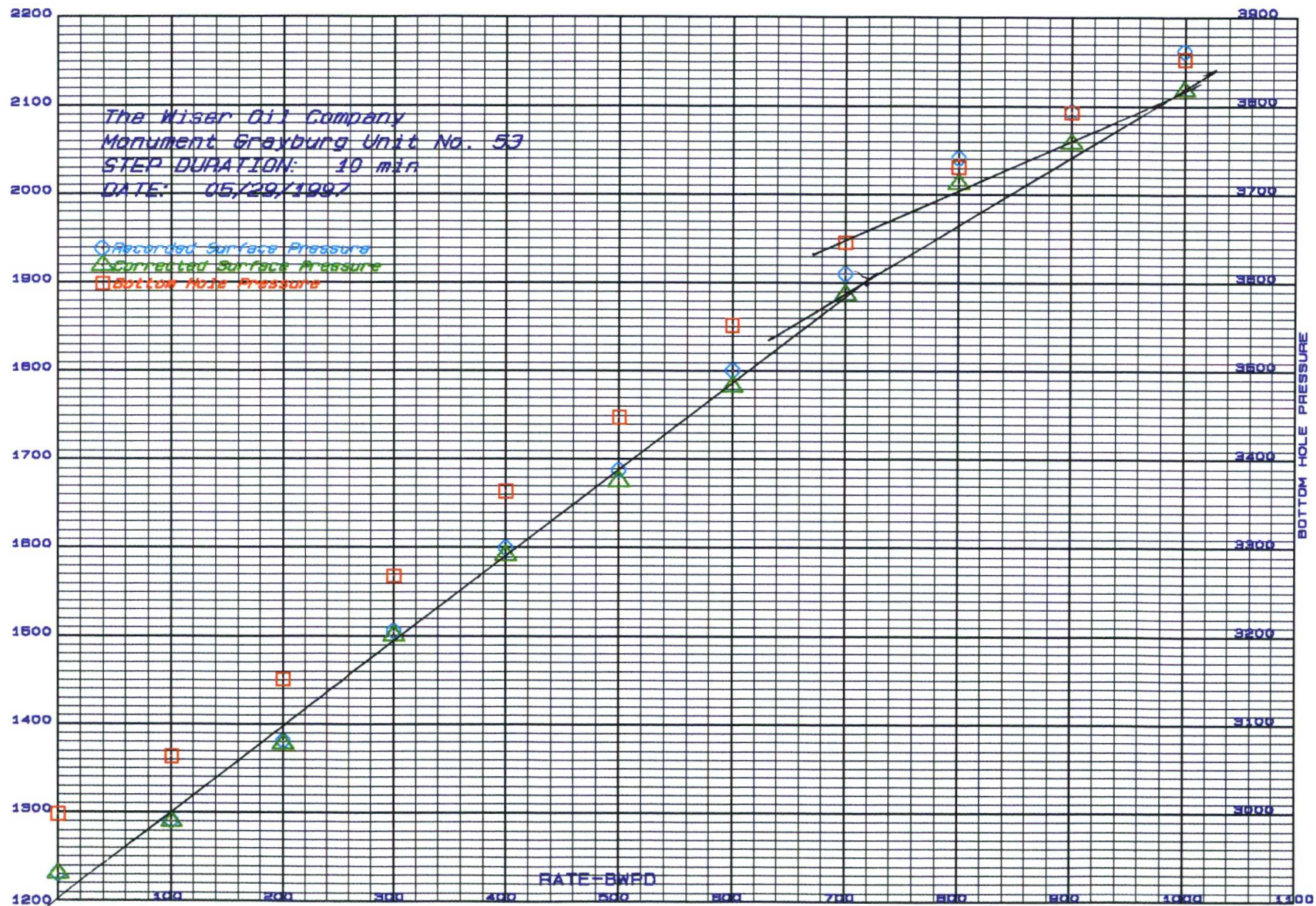


PHONE
915/682-7580

COMPANY: The Wiser Oil Company
LEASE: Monument Grayburg Unit No. 53
BOMB DEPTH: 3910
TUBING: 1.875 in. I.D. PC tubing set @ 3803 feet
TEST DATE: 05/29/1997
DURATION OF STEPS: 10 min

=====						
POINT	TIME	RATE (BWPD)	GAUGE	FRICTION	CORRECTED	BHP
=====						
	12:10		1230	0.0	1230	2998
1	12:20	100	1290	0.8	1289	3063
2	12:30	200	1380	2.5	1377	3151
3	12:40	300	1505	5.1	1500	3268
4	12:50	400	1600	8.5	1592	3364
5	13:00	500	1688	12.6	1675	3448
6	13:10	600	1800	17.5	1783	3552
7	13:20	700	1910	23.0	1887	3646
8	13:30	800	2041	29.3	2012	3731
9	13:40	900	2094	36.2	2058	3793
10	13:50	1000	2162	43.8	2118	3854

SURFACE & CORRECTED PRESSURE



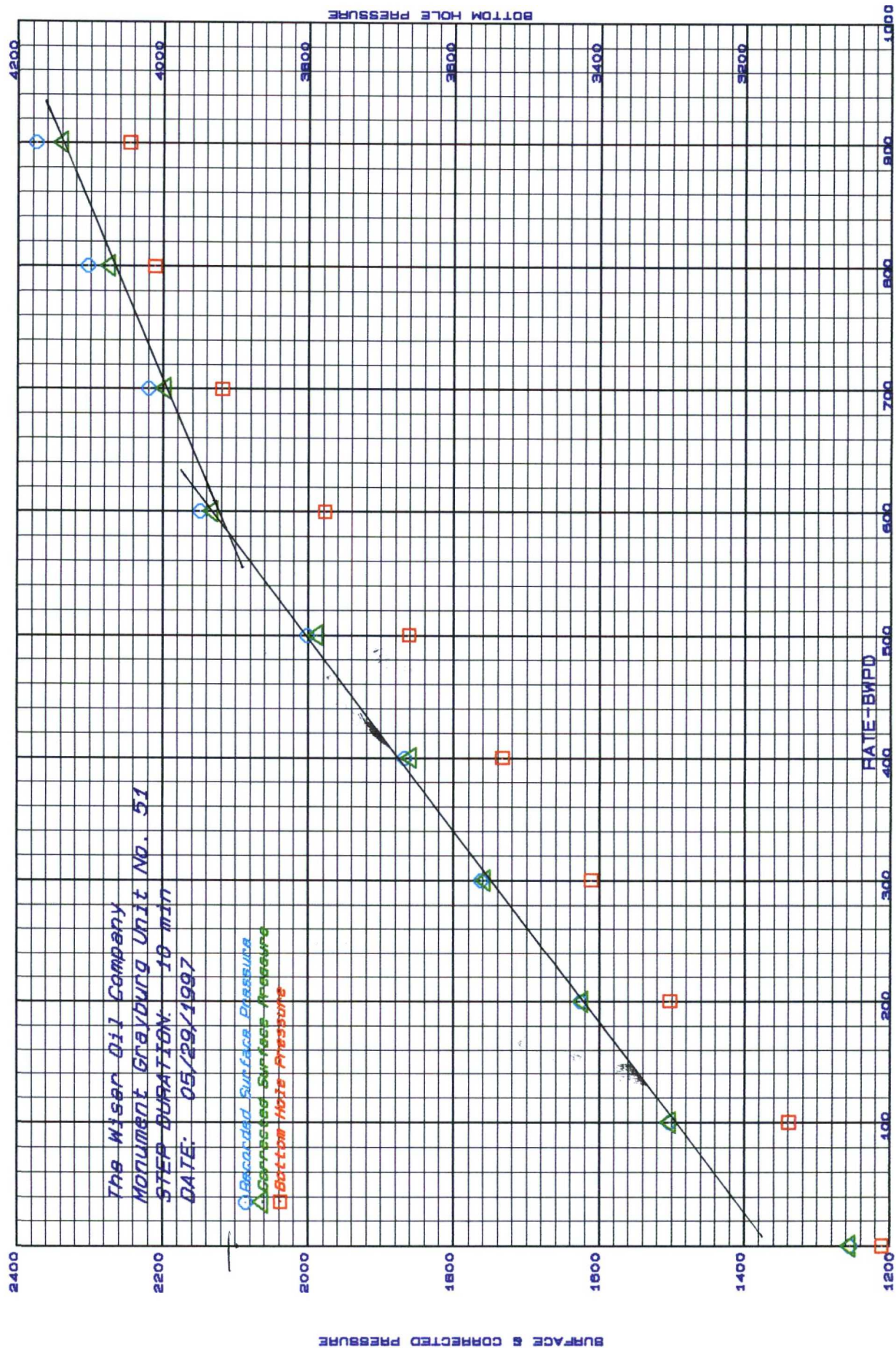
P. O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

COMPANY: The Wiser Oil Company
LEASE: Monument Grayburg Unit No. 51
BOMB DEPTH: 3925
TUBING: 1.875 in. I.D. PC tubing set @ 3781 feet
TEST DATE: 05/29/1997
DURATION OF STEPS: 10 min

=====						
POINT	TIME	RATE (BWPD)	GAUGE	FRICTION	CORRECTED	BHP
=====						
	08:50		1254	0.0	1254	3011
1	09:00	100	1503	0.7	1502	3139
2	09:10	200	1625	2.5	1623	3303
3	09:20	300	1762	5.1	1757	3411
4	09:30	400	1868	8.4	1860	3534
5	09:40	500	2001	12.5	1988	3662
6	09:50	600	2149	17.4	2132	3778
7	10:00	700	2220	22.9	2197	3919
8	10:10	800	2303	29.1	2274	4012
9	10:20	900	2375	36.0	2339	4047



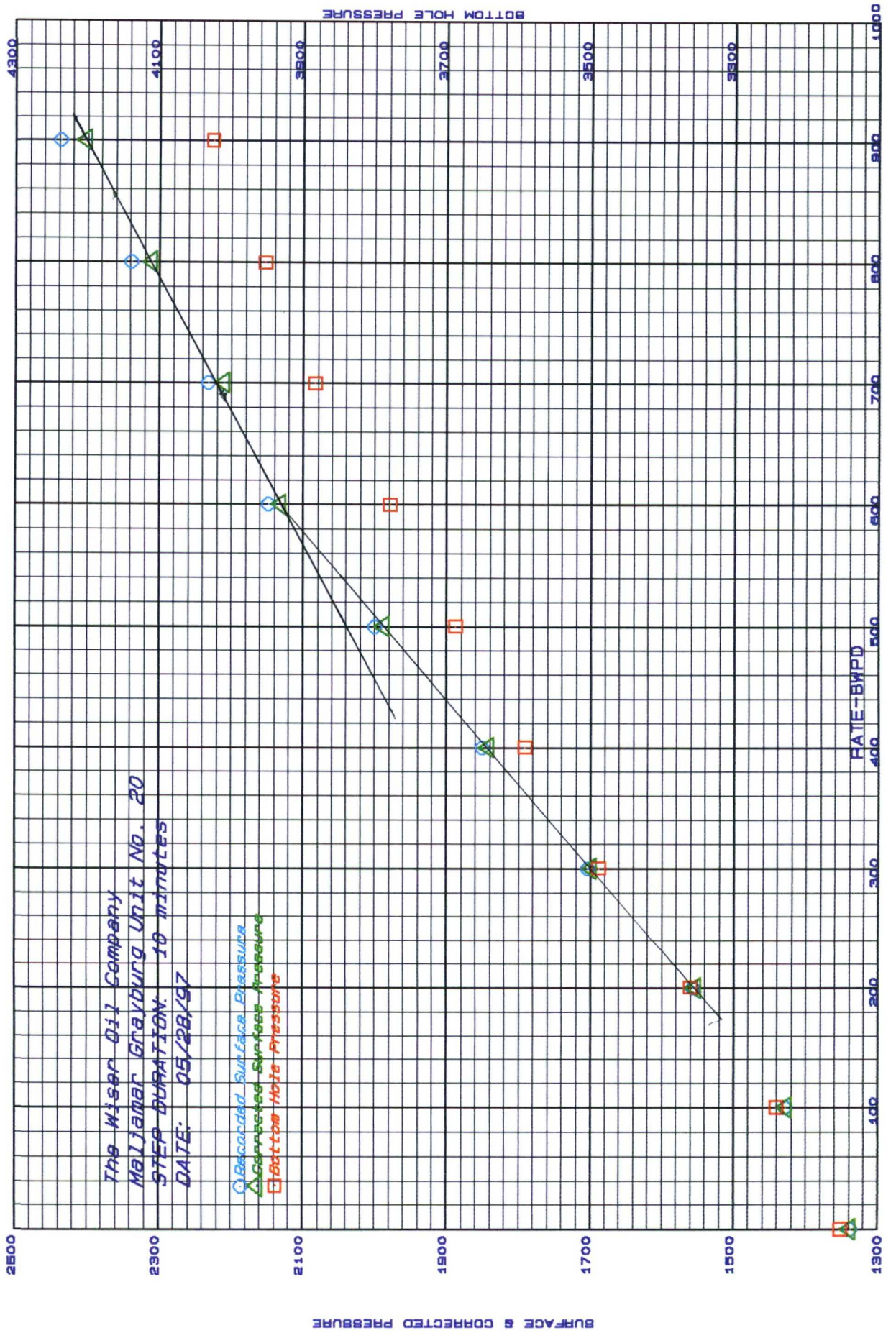
P. O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

COMPANY: The Wiser Oil Company
LEASE: Maljamar Grayburg Unit No. 20
BOMB DEPTH: 3993
TUBING: 1.875 in. I.D. PC tubing set @ 3700 feet
TEST DATE: 05/28/97
DURATION OF STEPS: 10 minutes

=====						
POINT	TIME	RATE (BWPD)	GAUGE	FRICTION	CORRECTED	BHP
=====						
	08:30		1338	0.0	1338	3152
1	09:25	100	1428	0.7	1427	3241
2	09:35	200	1556	2.4	1554	3360
3	09:45	300	1703	5.0	1698	3488
4	09:55	400	1850	8.3	1842	3591
5	10:05	500	2000	12.3	1988	3688
6	10:15	600	2148	17.0	2131	3779
7	10:25	700	2232	22.4	2210	3884
8	10:35	800	2339	28.5	2311	3953
9	10:45	900	2438	35.2	2403	4026



P. O. BOX 5254
MIDLAND, TEXAS 79704

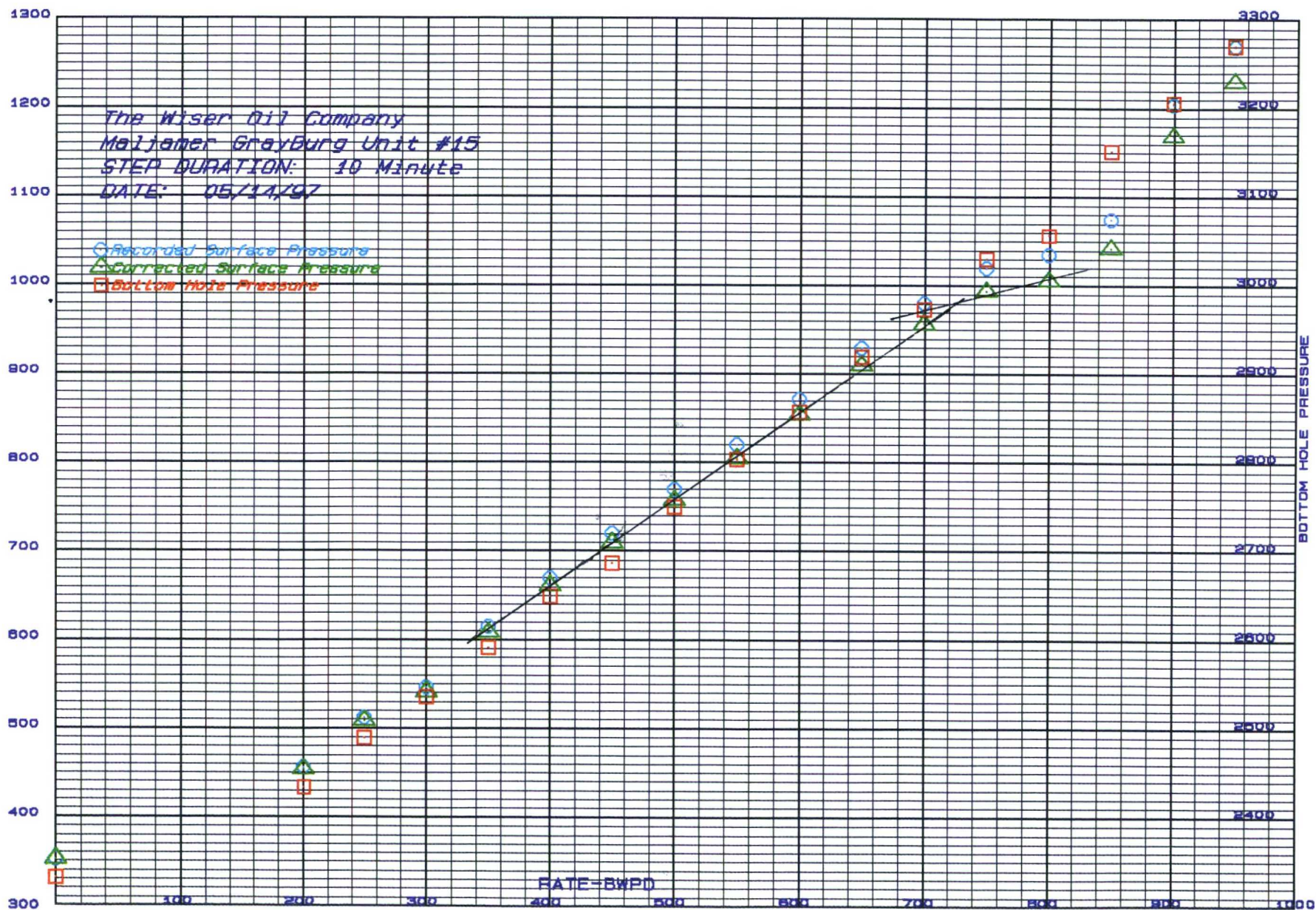


PHONE
915/682-7580

COMPANY: The Wiser Oil Company
LEASE: Maljamer GrayBurg Unit #15
BOMB DEPTH: 3954
TUBING: 1.875 in. I.D. pc tubing set @ 3781 feet
TEST DATE: 05/14/97
DURATION OF STEPS: 10 Minute

POINT	TIME	RATE (BWPD)	GAUGE	FRICTION	CORRECTED	BHP
	13:55	0	352	0.0	352	2331
1	14:05	200	456	2.5	454	2433
2	14:15	250	512	3.7	508	2489
3	14:25	300	546	5.1	541	2535
4	14:35	350	615	6.7	608	2591
5	14:45	400	670	8.4	662	2649
6	14:55	450	720	10.4	710	2687
7	15:05	500	770	12.5	757	2750
8	15:15	550	820	14.9	805	2804
9	15:25	600	872	17.4	855	2858
10	15:35	650	930	20.1	910	2920
11	15:45	700	980	22.9	957	2974
12	15:55	750	1020	25.9	994	3031
13	16:05	800	1035	29.1	1006	3057
14	16:15	850	1075	32.5	1043	3152
15	16:25	900	1205	36.0	1169	3207
16	16:35	950	1270	39.7	1230	3271

SURFACE & CORRECTED PRESSURE



BOTTOM HOLE PRESSURE

P. O. BOX 5254
MIDLAND, TEXAS 79704



PHONE
915/682-7580

COMPANY: The Wiser Oil Company
LEASE: Maljamar Grayberg Unit #8
BOMB DEPTH: 4207
TUBING: 1.875 in. I.D. pc tubing set @ 3966 feet
TEST DATE: 05/15/97
DURATION OF STEPS: 15 Minute

=====						
POINT	TIME	RATE (BWPD)	GAUGE	FRICTION	CORRECTED	BHP
=====						
	13:45		340	0.0	340	2336
1	14:00	200	361	2.6	358	2443
2	14:15	300	450	5.3	445	2521
3	14:30	400	550	8.9	541	2597
4	14:45	500	640	13.2	627	2637
5	15:00	600	686	18.2	668	2685
6	15:15	700	730	24.0	706	2731

SURFACE & CORRECTED PRESSURE

