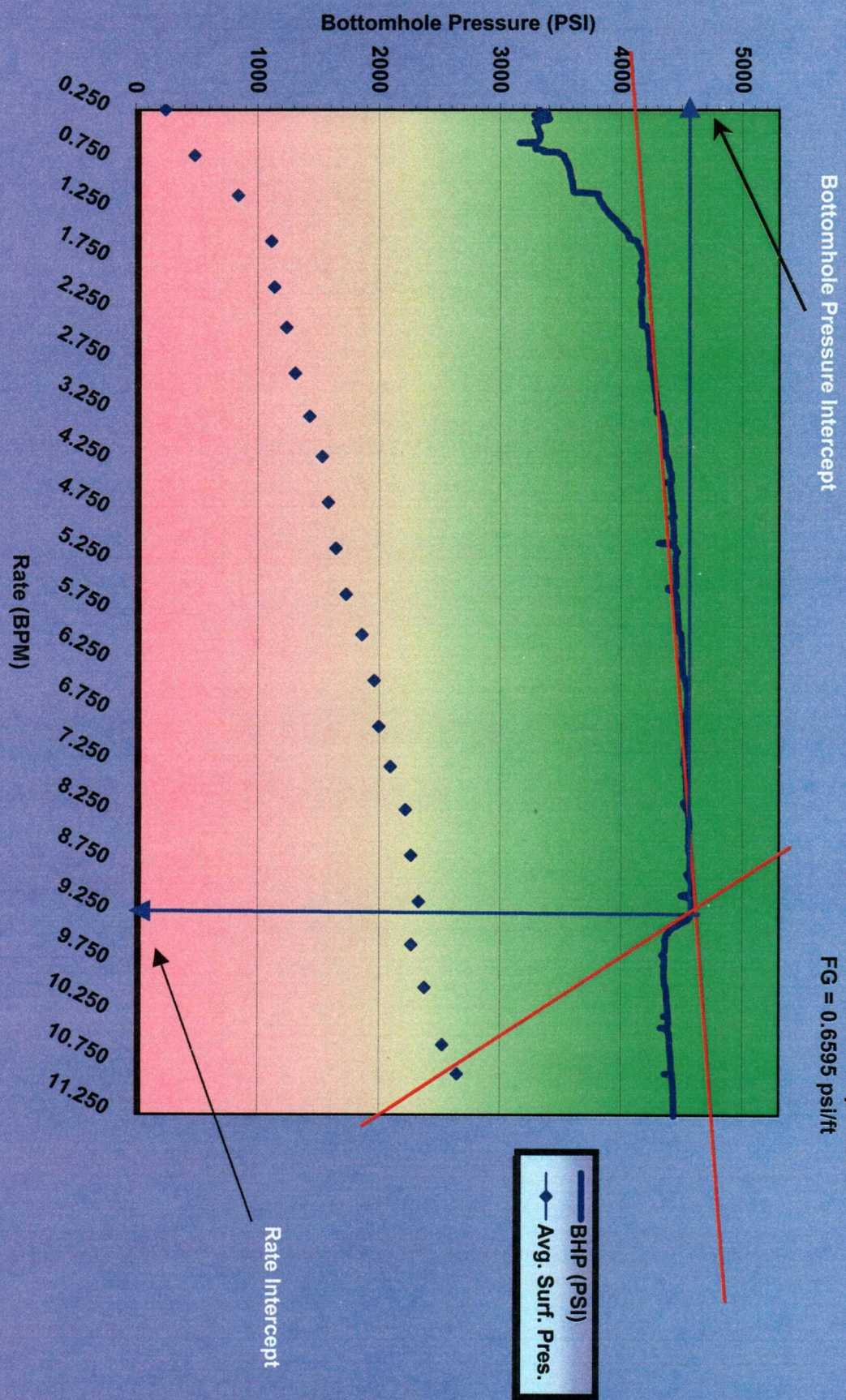


Salty Dog #3R - Step Rate Test February 3, 2003

BHP @ Fracture = 4,590 PSI
Based on Graph Below -
FG = 0.6595 psi/ft



Well: Salty Dog SWD 3R
 Company Name: Richardson Operating
 Test Date(s): 2/3/2003
 Run Depth:
 Start Date: 2003-Feb-03 08:58:45
 End Date: 2003-Feb-03 16:17:15
 Comments:

Rate	Avg P
0.25	245
0.75	485
1.25	839
1.75	1112
2.25	1136
2.75	1236
3.25	1307
3.75	1426
4.25	1530
4.75	1580
5.25	1642
5.75	1727
6.25	1856
6.75	1958
7.25	1997
7.75	2091
8.25	2217
8.75	2263
9.25	2328
9.75	2264
10.25	2375
10.75	2524
11.25	2644

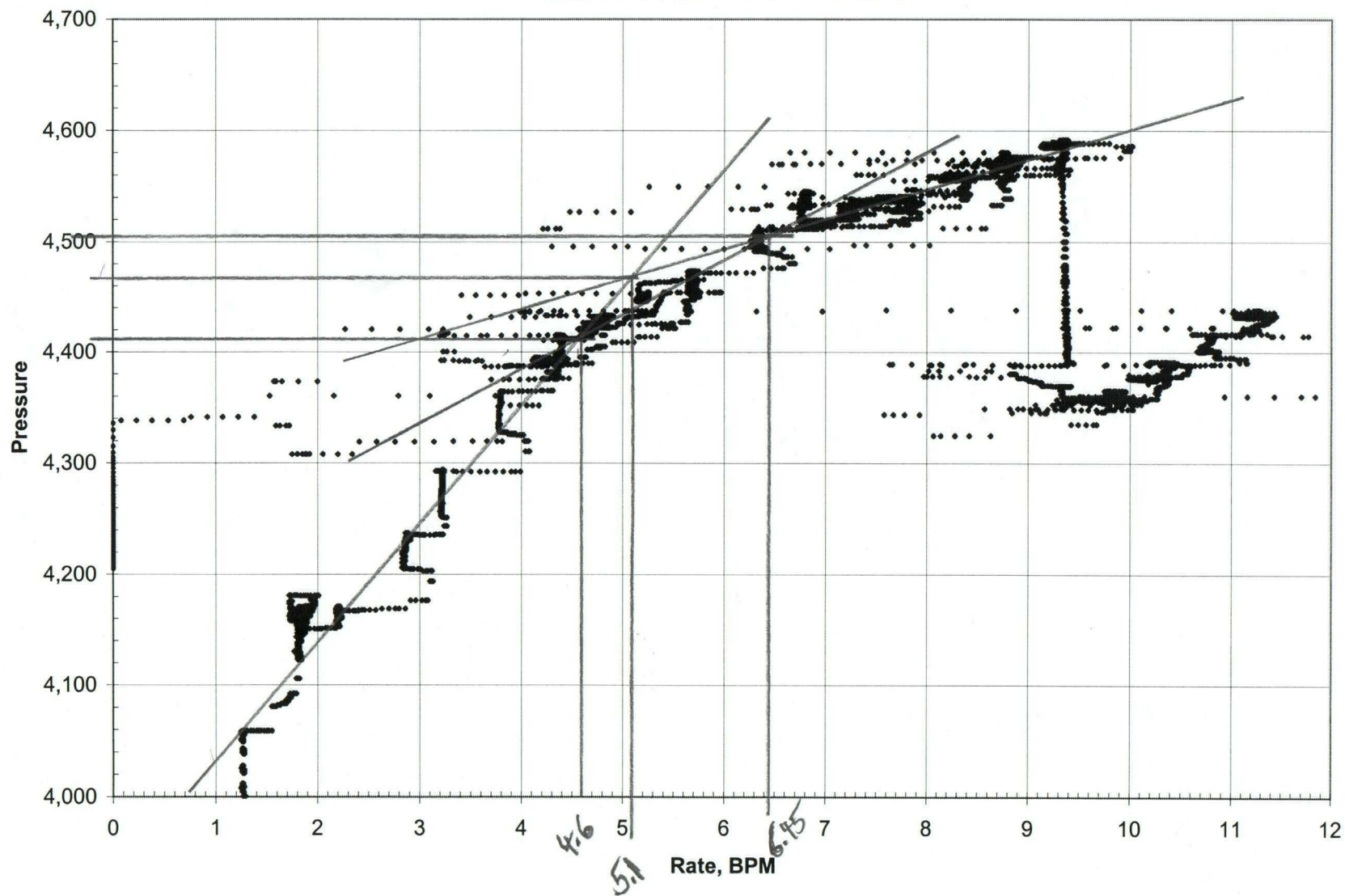
Date	Cum Time Hour	Pres PSIg	Temp Deg F
2/3/2003 8:58	0	54.87662	41.1386
2/3/2003 8:58	0.00139	53.45525	41.1584
2/3/2003 8:58	0.00278	52.5962	41.171
2/3/2003 8:59	0.00417	51.73757	41.1836
2/3/2003 8:59	0.00556	50.79207	41.1998
2/3/2003 8:59	0.00694	50.51041	41.2034
2/3/2003 8:59	0.00833	51.02442	41.2142
2/3/2003 8:59	0.00972	54.20887	41.1998
2/3/2003 8:59	0.01111	58.7397	41.036
2/3/2003 8:59	0.0125	66.29051	41.6876
2/3/2003 8:59	0.01389	75.68185	43.817
2/3/2003 8:59	0.01528	84.8919	46.6592
2/3/2003 8:59	0.01667	94.21201	49.3862
2/3/2003 8:59	0.01806	106.789	51.6848
2/3/2003 8:59	0.01944	119.6324	53.609
2/3/2003 9:00	0.02083	132.844	55.2488
2/3/2003 9:00	0.02222	144.3495	56.6654
2/3/2003 9:00	0.02361	158.0984	57.9002
2/3/2003 9:00	0.025	174.1574	58.9928
2/3/2003 9:00	0.02639	192.4997	60.0152
2/3/2003 9:00	0.02778	212.2688	60.9962
2/3/2003 9:00	0.02917	230.5181	61.9538
2/3/2003 9:00	0.03056	248.8331	62.9204
2/3/2003 9:00	0.03194	270.3321	63.9644
2/3/2003 9:00	0.03333	292.2864	65.0156
2/3/2003 9:00	0.03472	314.2611	66.0812
2/3/2003 9:00	0.03611	333.4515	67.1612
2/3/2003 9:01	0.0375	351.9158	68.2106
2/3/2003 9:01	0.03889	369.072	69.215
2/3/2003 9:01	0.04028	386.7502	70.2104
2/3/2003 9:01	0.04167	406.5451	71.177
2/3/2003 9:01	0.04306	427.8506	72.10941
2/3/2003 9:01	0.04444	450.074	73.0166
2/3/2003 9:01	0.04583	474.4747	73.9472
2/3/2003 9:01	0.04722	499.0083	74.8958
2/3/2003 9:01	0.04861	519.5204	75.9632
2/3/2003 9:01	0.05	543.9824	77.2214
2/3/2003 9:01	0.05139	571.1823	78.5498
2/3/2003 9:01	0.05278	601.5916	79.9412
2/3/2003 9:02	0.05417	632.834	81.2948
2/3/2003 9:02	0.05556	663.794	82.607
2/3/2003 9:02	0.05694	696.6925	83.8994
2/3/2003 9:02	0.05833	724.9765	85.1648
2/3/2003 9:02	0.05972	755.2065	86.3834
2/3/2003 9:02	0.06111	786.1985	87.6002
2/3/2003 9:02	0.0625	817.6018	88.8692
2/3/2003 9:02	0.06389	850.2905	90.1688
2/3/2003 9:02	0.06528	884.0391	91.5566
2/3/2003 9:02	0.06667	911.2195	92.9768
2/3/2003 9:02	0.06806	936.0685	94.3538
2/3/2003 9:02	0.06944	961.518	95.648
2/3/2003 9:03	0.07083	989.34	96.8684
2/3/2003 9:03	0.07222	1013.719	98.0546
2/3/2003 9:03	0.07361	1039.799	99.15981

Salty Dog 3R

2/3/03

Rate vs Bottom Hole Pressure

- BHP, Psi
- SurfacePSI

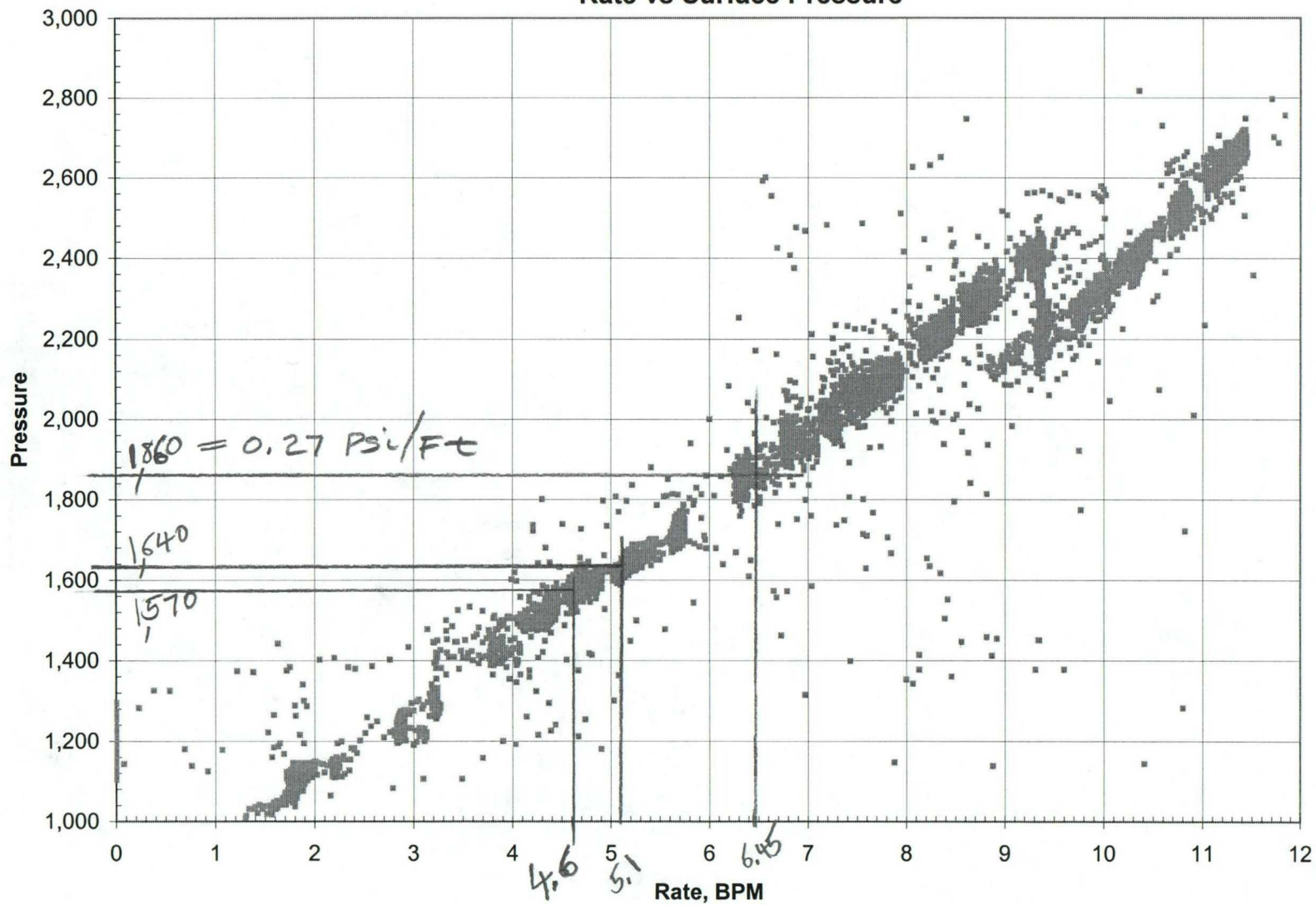


- BHP, Psi
- SurfacePSI

Salty Dog 3R

2/3/3

Rate vs Surface Pressure



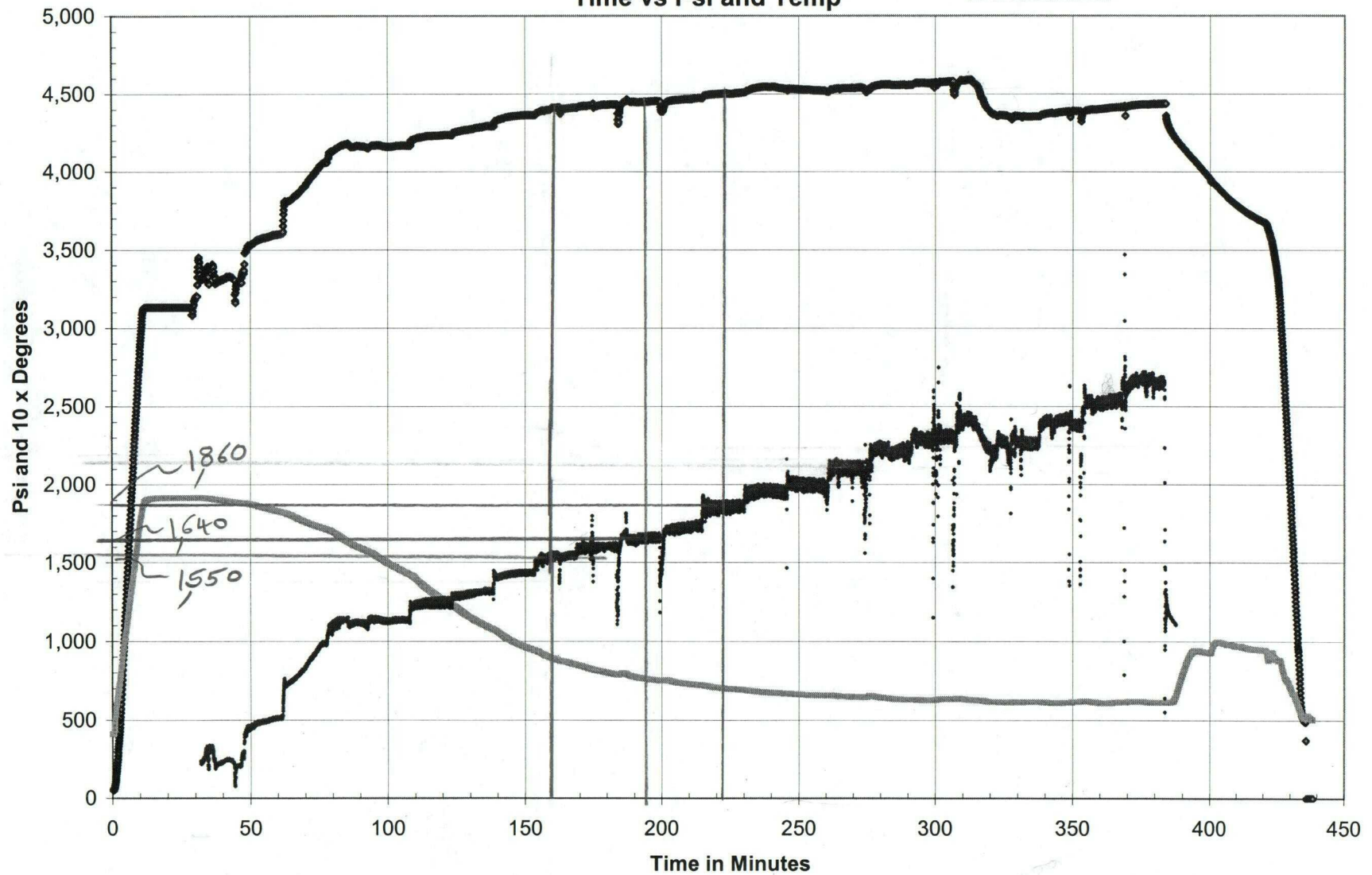
6.45 = 9,300 BPD
 5.10 = 7,344 BPD
 4.60 = 6,624 BPD

Salty Dog #3R

3-3-03

Time vs Psi and Temp

- ◆ Psi
- Temp x 10
- SurfacePSI

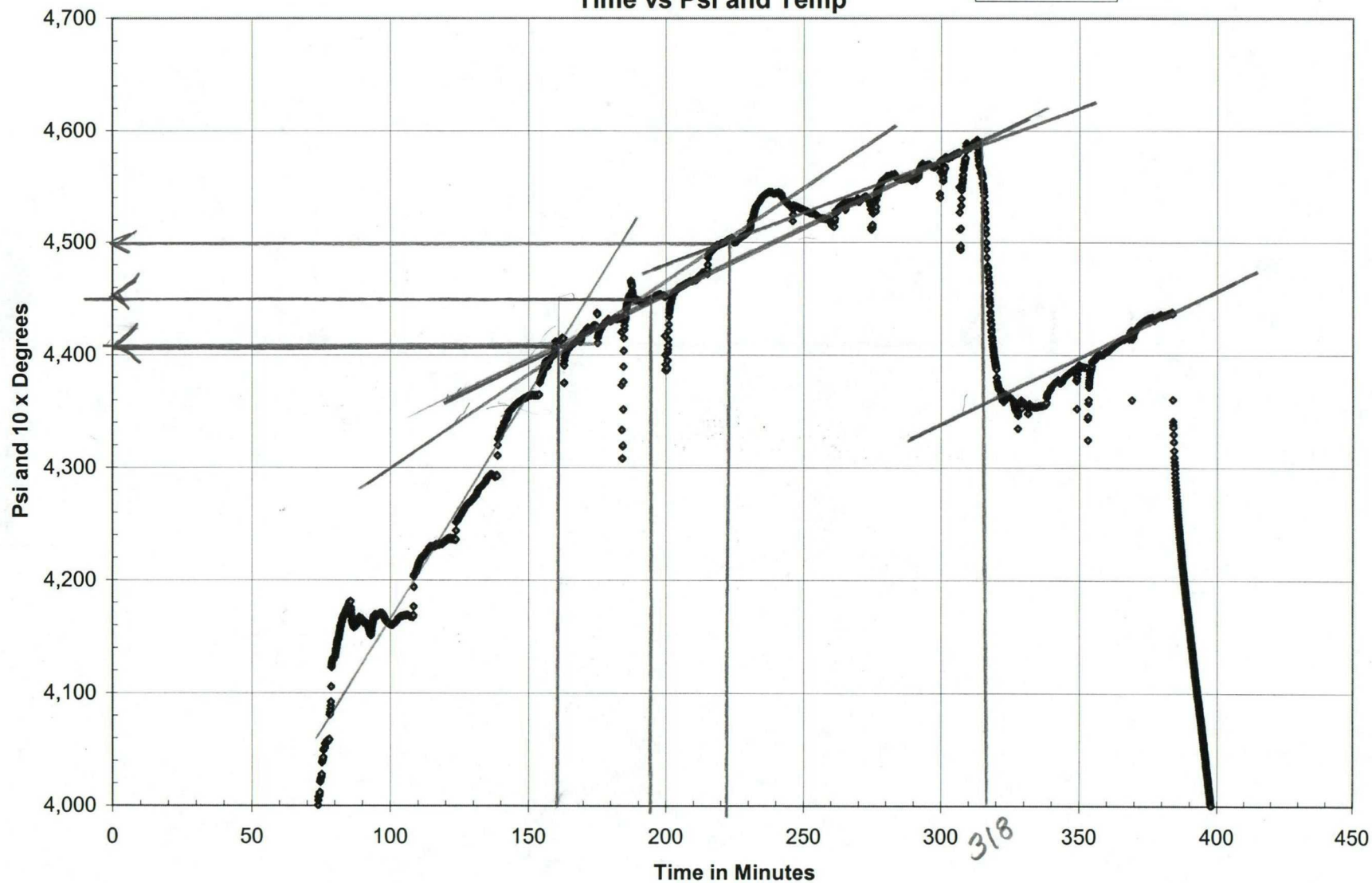


Salty Dog #3R

3-3-03

Time vs Psi and Temp

- ◆ Psi
- Temp x 10
- SurfacePSI



Salty Dog #3R
3-3-03
Injection Rate vs Time

