

RRGE-2

Q = 350 gpm

R-25F26-77

ΔP = 44 (corrected for 1.5 zero)

Time	Δ time	WHP PSIG	ΔWHP Psi	Temp	ΔP
11:50	-	151	-	200 F	-
12:00	0	151	-	200 F	-
12:02		106		233	44
12:04		100		236	44
12:06		97		239	44
12:08		94		240	44
12:10		93		242	44
12:12		92		243	43 1/2
12:15		91		244	44
12:18	shut in		20 gpm	Flow & adj. rate	
12:20		93		249	44
12:25		91		251	44
12:35		91		256	44
12:40		90		258	44
12:45		90		260	44
12:50	-	88		264	44
12:55		88		264	44
13:00	-	88		264	44
13:05	-	86		266	44
13:15	-	86		266	44
13:25	-	85		268	44
13:40		83		269	44
13:50		82		270	44

Flow Aborted due to too large a pressure drop across the orifice plate.

RRGE-2

FLOW = 350 gpm

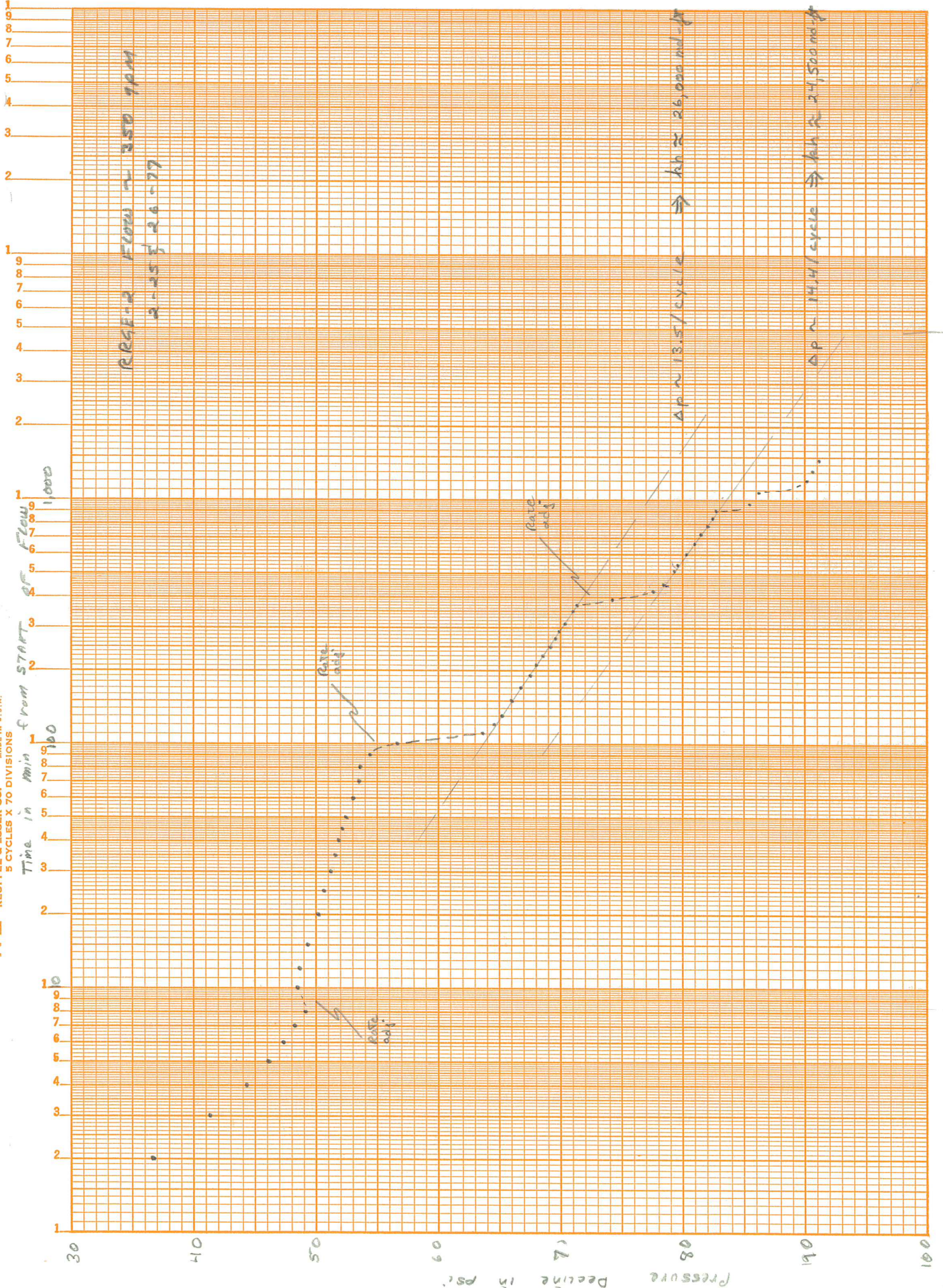
2-25/26-77

~~TEST NO GOOD~~
~~BAD RATE CONTROL~~
 BY

	Time (min)	WHP (PSIA)	Δ time (min)	Δ WHP PSI	COMMENTS
2-25	18:00	162.079	0	0	Flow Begin
	18:01	135.148	1	26.931	
	18:02	125.204	2	36.875	
	18:03	120.811	3	41.268	
	18:04	117.752	4	44.327	
	18:05	116.061	5	46.018	
	18:06	114.853	6	47.226	
	18:07	113.857	7	48.222	
	18:08	112.892	8	49.187	
	18:10	113.640	10	48.439	
	18:12	113.405	12	48.674	
	18:15	112.824	15	49.255	
	18:20	112.003	20	50.076	
	18:25	111.403	25	50.676	
	18:30	110.964	30	51.115	
	18:35	110.562	35	51.517	
	18:40	110.223	40	51.856	
	18:45	109.903	45	52.176	
	18:50	109.613	50	52.466	
	18:55	109.284	55	52.795	
	19:00	109.075	60	53.004	
	19:05	108.799	65	53.280	
	19:10	108.577	70	53.562	
	19:15	108.273	75	53.806	
	19:20	108.444	80	53.635	
	19:30	106.614	90	54.465	
	19:40	105.358	100	56.721	
	19:50	98.328	110	63.751	
	20:00	97.478	120	64.601	
	20:10	96.913	130	65.166	
	20:20	96.433	140	65.646	
	20:30	96.013	150	66.066	
	20:50	95.247	170	66.832	
	21:10	94.545	190	67.532	
	21:30	94.013	210	68.066	
	21:50	93.440	230	68.639	
	22:10	92.951	250	69.128	
	22:30	92.443	270	69.636	

	Time (min)	WHP (PSIA)	Δtime (min)	ΔWHP PSC	comments
	22:50	92.105	290	69.974	
	23:10	91.688	310	70.391	
	23:30	91.380	330	70.699	
	23:50	91.048	350	71.031	
2-26	00:10	90.717	370	71.362	
	00:30	87.844	390	74.235	adj rate up ~ 199PM
	01:00	84.356	420	77.723	
	01:30	83.621	450	78.458	
	02:00	83.147	480	78.932	
	02:30	82.733	510	79.346	
	03:00	82.375	540	79.704	
	03:30	82.048	570	80.031	
	04:00	81.689	600	80.390	
	04:30	81.422	630	80.657	
	05:00	81.078	660	81.000	
	05:30	80.879	690	81.200	
	06:00	80.592	720	81.487	
	07:00	80.067	780	82.012	
	08:00	79.652	840	82.427	
	09:00	79.264	900	82.815	adj Rate upward
	10:00	76.689	960	85.490	
	11:00	76.197	1020	85.982	
	12:00	75.874	1080	86.205	
	14:00	72.025	1200	90.054	$\Delta P = 2.52$ WHTemp. ~ 273°F Press. gauge (upstream orifice) ~ 60 PSIG
	16:00	71.373	1320	90.706	
	18:00	70.914	1440	91.165	

shut in wellhead &
established purge



3.378" orifice

$$Q = 218.6 \sqrt{\Delta P}$$

RRGE-2

$$Q = 350 \text{ gpm} \approx 2.56 \text{ psig across orifice}$$

2-25 & 26 -77 Initially $\Delta P = 4.0$ } corrected for
1.5 gpm

Time	Δ Time	WHP PSIG	Δ WHP PSI	Temp	ΔP	
2-25 17:55	-	150	-	223	-	
18:00	0		Begin Flow			
18:03	3	110	40	230	4	
18:05	5	104	46	250	}	
18:08	8	102	48	254		
18:10	10	102	48	254		
18:13	13	101	49	256		
18:18	18	101	49	257		
18:22	22	100	50	258		
18:26	26	99	51	259		
18:30	30	99	51	260		
18:36	36	99	51	260		
18:40	40	98	52	262		
18:50	50	98	53	263		
19:00	60	97	54	265		
19:10	70	97	54	266		
19:22						
19:30	90	95	56	266		Rate adj
19:40	100	95	56	267	}	
19:50	110	86	64	267		
20:00	120	85	65	269		
20:10	130	85	65	269		
20:20	140	85	65	269		
20:30	150	84	66	269		
20:40	160	83	67	269		
21:00	180	83	67	269		
21:20	200	82	68	269		
22:00	240	81	69	269		
22:30	270	81	69	269		
23:00	300	80	70	269		
23:30	330	80	70	269		
24:00	360	80	70	269		
2/26/77 00:20		71				
00:30						
00:40		76	76	269	4.75 - 2.25 = 2.5 Orifice = 76 psig upstream	
01:00	420	73		269		
01:20		72.5		269		
02:30	510	72		269		
04:00		71				

RRGE-2 Q = 350 gpm

2-25 f20 - 77

Initially DP = 40 } corrected for
115 3240

2-26

04:00	600	71	269
06:00	720	69	270
06:30		69	270
07:30	810	68	270
08:30		69	270
09:00	840	68	270
09:30		68	270
10:00	900	66	270
11:00		65	270
12:00	1020	64	270
13:00		60	272
14:00	1140	62	271
15:00	1200	60	273
16:00	1260	60	273
17:00		60	273
18:00	1380	59.5	273

new gage

182.000

- 75.874

106.126

162.019

- 72.225

89.794