

500 GPM Test on RRGE 42

March 18, 1977 10

Shutdown since 0800 March 15, after a 400 gpm test

3 3/8" orifice

Q gpm = 216.8 Top

+ 19 gpm through bleed line

Δp = 5.32 psi

G107305-10

Time	Well Hd (psia) Pressure	Orifice ΔP	Orifice Up Downstream Pressure psia	Temp 12' from Well Hd	Drawdown Pressure	ΔTime
Initial Cond.	161.78	—	—	—	—	—
8:31	161.78 psia	—	—	—	—	—
Started flow @ 8:31	Took 30 sec to stabilize @ 500 gpm. Initially 800 gpm					
8:32	80	5.6	—	—	80.8	1
8:33	79.3	5.3	—	—	82.5	2
8:34	74.4	—	—	—	87.4	3
8:35	72.1	—	—	—	89.7	4
8:36	71.1	—	—	—	90.7	5
8:38	69.5	—	—	—	92.3	7
8:40	68.8	—	—	—	93.0	9
8:42	68.3	—	—	—	93.5	11
8:44	65.1	—	—	—	96.7	13
8:46	64.8	—	—	—	97.0	15
8:48	64.9	—	55	—	96.9	17
8:50	63.0	—	—	—	98.8	19
8:52	62.5	—	—	—	99.3	21
8:54	60.9	—	51	—	101.9	23
8:56	60.8	—	—	—	101.8	25
8:58	59.6	—	—	—	102.2	27
9:00	59.6	—	—	—	102.2	29
9:02	59.8	—	—	—	102.0	31
9:04	58.0	—	48	—	103.8	33
9:06	57.9	—	47	—	103.9	35
9:08	57.2	—	—	—	104.7	37
9:10	56.3	—	—	—	105.5	39
9:12	55.3	—	45	—	106.5	41
9:14	55.0	—	—	—	106.8	43
9:16	55.0	—	—	261° F	106.8	45
9:18	54.0	—	44	—	107.8	47
9:20	53.5	—	—	—	108.4	49
9:22	53.5	—	43	—	108.4	51
9:24	53.0	—	—	—	108.8	53

500 GPM RRG E#2

March 18, 1971

+19 gpm
thru bleed line

(cont.)

3 3/8" Orifice

 $Q_{gpm} =$

216.8

 $\sqrt{\Delta P_{psi}}$

Time	Well Hd psid	Orifice ΔP	Orifice Upstream psid	Temp 12' from Well Hd	Drum level	Δ Time
9:26	52.6	5.3 psig		264°F	109.3	55
9:28	52.6				109.3	57
9:30	52.7				109.2	59
9:32	51.6		41	266	110.2	61
9:34	51.2				110.6	63
9:36	51.0		40.5	267	110.8	65
9:38	50.8		40.3		111.0	67
9:40	50.8				111.0	69
9:42	50.8				111.0	71
9:44	50.8		40.2		111.0	73
9:46	50.2			268	111.6	75
9:46	50.2					
9:48	50.2				111.6	77
			40.0		111.6	79
9:50	50.2					
9:52	50.1			269	111.7	81
9:54	49.6				112.2	83
9:56	49.3		39	270	112.5	85
9:58	48.7		38	270	113.1	87
10:00	48.6			270	113.2	89
10:02	48.2		38	270.2	113.6	91
10:04	48.1				113.7	93
10:06	47.9				113.9	95
10:08	47.4		37	270.6	114.4	97
10:10	48.0				113.8	99
10:12	48.3				113.5	101
10:14	46.0		37	271.3	115.8	103
10:16	45.3		36.5	271.3	116.5	105
10:18	44.7		36	271.2	117.1	107
10:20	44.7		36	272.1	117.1	109
10:21	44.7					

Flashings
Began
at Orifice

Shut in @ 10:21

Recovery

RRGE #2 March 18, 1977 after
100 min @ 500 gpm

Time	Well Hd psia
10:21	44.7
10:23	129.2
24	134.4
25	137.0
26	138.7
27	139.8
28	141.0
29	141.9
30	142.8
31	143.5
32	144.2
33	144.9
34	145.5
36	146.5
38	147.4

2 Testing Feb - March 1977

<u>Q</u> gpm	<u>Knee</u> Time	<u>Drawdown to</u> <u>Knee</u>	<u>Slope</u>
200	100 min.	21.5 psi	12 psi/decade of Time
250	100 min	35	18
300	80 min	48	22 1/2
350	70 min	56	28 1/2
400	35 min	68	33 1/2

Extrapolated for

500	20 min	84	44
-----	--------	----	----

be lucky to get 120 min
before dropping to 41 psi
on discharge

