GL07308

RRGE WELL TEST DATA

Well No. 2

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Orifice Size 4.5/8 ~~2 1/2~~ 240 gpm

Date 30 May 78

	TIME	TEMP	BACK PRESSURE LINE	Flow Rate	PUMP DISCH PRESSURE	ANNULUS PRESSURE	BEARING FLOW	AMP'S	BUBBLER PRESSURE	∆ (DRAWDOWN)(295)
t →	2140		-	Pump on -					295'	Reset to start up
5	2155	264	58	2.6	430	20	22	220	195	100
20	2210	271	48	3.0	370	22	20	230	190	105
25	2215	273	58	3.0	365	22	20	220	185	110
40	2230	275	60	2.9	360	22	21		180	Closed line valve slightly
55	2245	276	58	2.8	355	22	21		180	115
70	2300	276	55	3.2	325	22.5	20	230	180	Opened line valve repeatedly
85	2315	276	65	3.0	320	22.5	20	230	179.5	115.5
100	2330	276	62	3.0	320	26	21	230	170.0	125
115	2345	277	64	3.0	318	26	20	230	170.0	125
130	0000	277	64	3.0	315	26	20	230	170.0	125
160	0030	277	64	2.9	315	26	20	230	168	127
190	0100	277	65	2.9	315	26	21	230	168	127
220	0130	277	68	2.9	315	26	22	230	167	128
250	0200	277	66	2.9	310	26	21	230	166	129
280	0230	277	64	2.9	310	26	21	220	165	130
310	0300	277	64	29.	308	26	20	220	165	130
			319	down at 0309 CAUSE UNKOWN						
			335	started 0325						
370	0400	277	55	2.9	300	28	20	225	165	130
385	0415	277	58	3.0	310	27	20	230	165	130
400	0430	277	60	2.9	310	27	20	226	165	130
415	0445	277	60	3.0	300	27	20	222	165	130
430	0500	277	62	3.0	300	28	20	222	165	130

RRGE WELL TEST DATA

Well No. 2

Orifice Size 4 5/8

Date 31 May 78

t→	TIME	BACK PRESSURE TEMP	BACK PRESSURE LINE	Flow Rate	PUMP DISCH PRESSURE	ANNULUS PRESSURE	BEARING FLOW	AMP'S	BUBBLER PRESSURE	Δ (295)		
460	0530	277	64	3.0	300	28	20	220	163	131		
	0600	277	64	2.9	300	28	20	230	162			
520	0630	277	64	2.9	295	27	20	220	160	135		
550	0700	277	58	3.0	280	28	20	220	155	140		
610	0800	277	60	3.0	275	29	19	223	152	143		
670	0900	277	61	3.0	280	40	19	225	153	142		
730	1000	277	62	3.0	280	40	19	230	150	145		
790	1100	277	62	3.0	270	40	19	230	150	145		
850	1200	277	66	2.9	270	44	19	230	145	150		
910	1300	277	66	3.0	270	43	20	230	142	153		
970	1400	277	66	3.0	270	43	19	230	140	155		
	1450			line PSI gradual jump 66 to 74					(145)	adjusted value down		
	1490			line PSI dropped from 64 to 50					(140)	adjusted value up		
	1500	277	66	3.0	265	43	19	230	137			
1090	1600	277	66	3.0	265	42	19	230	137	158		
	1635	drop in PSI	54		opened valve				(135)			
	1645	PSI reaching	56		still opening valve		PSI slowly rising		(132)			
	1700	277	60	3.0	250	42	19	230	130			
	1800	277	61	3.0	250	42	19	230	130			
	1840	drop in PSI	50		am opening valve		PSI slowly rising		(125)			
	1850	PSI reached	60						(125)			
1270	1900	277	60	3.0	230	41	19	230	120	175		
	1935	Jump in PSI	76		am closing valve				(120)			
	1945	PSI reached	60						(125)			

RRGE WELL TEST DATA

Well No. 2

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Orifice Size 4 5/8

Monitor Wells _____ _____ _____

Date 31 MAY 78

DATE	TIME	FLOW TEMP	LINE PRESSURE PSI	FLOW RATE	Pump DISCH PRESSURE	ANNULUS PRESSURE	BEARING FLOW	AMPS	BUBBLER PRESSURE	COMMENTS
	2000	277	64	3.0	245	41	20	230	125	(295)
	2100	277	68	3.0	250	40	20	230	130	shut valve slightly
	2110		52						130	drop in PSI am opening valve
	2115		60						130	desired PSI reached
1450	2200	277	62	3.0	240	40	20	230	125	170
	2300	277	64	3.0	240	40	20	230	125	
	2400	277	62	3.0	240	40	20	230	125	Shut valve slightly
1630	0100	278	62	3.0	240	40	20	230	124	open 171 "
	0200	278	62	3.0	240	40	20	230	122	
	0300	278	66	3.0	240	40	20	230	122	
1810	0400	278	62	3.0	240	40	20	230	122	173
	0500	278	66	3.0	240	40	20	230	122	
	0600	278	62	3.0	235	40	20	225	121	
1990	0700	278	62	3.0	240	40	20	220	120	175
	0800	278	62	3.0	240	40	20	220	119	
	0900	277	62	3.0	240	40	20	220	119	
	0100	277	62	3.0	240	40	20	220	112	
2230	1100	PUMP DOWN								
	1115	PUMP ON								
	1130	277	58	3.0	265	43	19%	236	133	
	1145	277	62	3.0	240	42	19	236	116	
2290	1200	277	62	3.0	240	40	19	236	113	182
	1300	277	62	2.9	240	40	20	240	111	

RRGE WELL TEST DATA

Well No. 2

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Date 6-1-78

Orifice Size 4 5/8 Monitor Wells ____

DATE	TIME	FLOW Temp	Line Pressure PSI	FLOW RATE	PUMP DISCH PRESSURE	ANNULUS PRESSURE	Bearing Amps Flow	AMPS	Bubbler Pressure	COMMENTS
1500	1400	277	62	3.0	240	40	20	240	111	Δ (295)
	1500	277	68	2.9	240	42	20	240	108	
	1550		73						(115)	adjusted value down
	1600	277	66	2.9	250	42	20	240	115	
	1610		54						(112)	adjusted value up
2590	1700	277	64	2.9	225	41	19	235	104	191
	1715	277	65	2.9	225	41	19	240	104	
	1800	277	64	3.0	222	41	19	240	104	
	1900	277	64	3.0	222	41	20	240	105	
	2000	277	66	3.0	222	41	20	240	105	
	2100	277	66	3.0	221	41	20	240	105	
2890	2200	277	66	3.0	225	41	20	240	105	190
	2300	277	66	3.0	225	41	20	235	105	190
	0000	278	66	3.0	229	41	20	235	106	
	0100	278	66	3.0	228	41	20	235	106	
	0200	278	62	2.9	210	40	20	230	100	adjusted up.
3190	0300	278	64	2.9	215	40	20	235	96	199
	0400	278	64	2.9	212	40	20	235	95	
	0500	278	64	2.9	212	40	20	235	95	
	0600	278	64	2.9	210	40	20	230	96	
	0700	278	64	2.9	210	40	20	230	96	
3490	0800	278	64	2.9	210	40	20	230	95	200
	0900	277	64	2.9	210	40	20	230	95	

RRGE WELL TEST DATA

Well No. 2 Page 5 of ____

Orifice Size 4 5/8 Monitor Wells ____ Date 6-2-79

DATE	TIME	FLOW TEMP	LINE PRESSURE PSI	ELBOW PRESSURE	PUMP DISCHARGE PRESSURE	ANNULUS PRESSURE	Blower AMPS Full	PUMP DISCH PRESSURE AMPS	INITIAL BOREHOLE Pressure	COMMENTS
	1000	277	64	2.9	210	40	20	230	88	
	1100	277	64	2.9	210	40	20	230	87	
	1200	277	64	2.9	210	40	20	230	88	
3790	1300	278	64	2.9	210	40	20	230	92	203
	1400	277	64	2.9	210	40	20	230	91	
	1500	278	62	2.9	200	40	20	230	85	
	1600	277	63	2.9	195	41	20	230	83	
	1625		line psi jumped to 20 then dropped back to 62 with no adjustment necessary							no change in bubble
	1700	277	62	2.9	195	41	19	235	81	
4090	1800	278	62	3.0	195	40	20	235	85	210
	1900	278	62	3.0	195	40	20	235	85	
	2000	278	63	3.0	195	40	20	235	85	
	2100	278	63	3.0	195	41	20	235	85	
	2200	278	64	3.0	200	41	20	230	85	
	2300	278	64	3.0	199	41	20	230	85	
	2400	278	64	3.0	200	41	20	230	85	
6-3-79	0100	278	64	3.0	200	41	20	235	85	
	0200	278	64	3.0	200	41	20	235	85	
	0300	278	64	3.0	200	41	20	235	85	
4690	0400	278	64	3.0	200	41	20	230	85	210
	0500	278	64	3.0	200	41	20	230	85	
	0600	278	64	3.0	200	41	20	230	85	
	0700	278	64	3.0	200	41	20	230	84	
	0744	278	62	2.9	195	41	20	230	80	

RRGE WELL TEST DATA

Well No. Site 2.

Date 6-3-78

Orifice Size 4 5/8

Monitor Wells _____ _____ _____

DATE	TIME	FLOW Temp	Line ~~PRESSURE~~ RATE PSI gpm	Flow ~~BUBBLER~~ Rate ~~PRESSURE~~	Pump ~~PSI~~ GALS DISCH ~~PRESSURE~~	Annulus BACK PRESSURE	Bearing Flow AMPS	Amps ~~OUTPUT PRESSURE~~	INITIAL BUBBLER	COMMENTS
6-3	0800	278	63	2.9	190	40	20	230	80	1(295
" "	0900	278	65	2.9	200	40	20	230	80	
" "	1000	278	65	2.9	195	40	20	230	78	
" "	1100	278	65	2.9	195	40	20	230	78	
" "	1130	277	65	2.9	195	40	20	230	75	
" "	1200	277	65	2.9	195	40	20	230	75	
" "	1300	278	65	2.9	195	40	20	230	75	
5890	1400	278	65	2.9	195	40	20	230	75	220
" "	1500	278	65	2.9	195	40	20	230	75	
" "	1600	278	65	2.9	192	40	20	230	75	
" "	1700	278	65	2.9	195	40	20	240	75	
" "	1800	278	65	2.9	195	40	20	240	75	ADD 0-200
" "	1900	278	65	2.9	195	40	20	240	76	HEISE Gauge
" "	2000	278	67	2.9	195	40	20	240	76	
" "	2100	278	65	2.9	195	40	20	240	79	Cal a EASY
" "	2200	278	65	2.9	195	40	20	240	79	To Read
" "	2300	278	65	2.9	195	40	20	240	79	
5890	2400	278	67	2.95	195	41	20	230	79	216
		WENT	DOWN	at 24.00	Restart	at 0015				
6-4-78	0100	278	56	3.0	195	41	20	230	79	
" "	0200	278	61	3.0	195	41	20	230	77	
" "	0300	278	62	3.0	195	41	20	230	76.8	
" "	0400	278	62	3.0	195	41	20.5	230	76.8	
" "	0500	278	64	3.0	195	41	20.5	230	77	
	0600	278	64	2.95	195		20.5	230	77	

RRGE WELL TEST DATA

Well No. 2

Page 1 of -

Orifice Size 4.5/8 IN 8" PIPE $\Delta P = 3.0$ psi → 750 gpm

Date 30 May 78

t (min)	TIME	BACK PRESSURE TEMP	BACK PRESSURE LINE	Flow Rate	PUMP DISCH PRESSURE	ANNULUS PRESSURE	BEARING FLOW	AMP'S	BUBBLER PRESSURE	
	2140					150			295	Pump started up
5	2155	264	58	2.6	430	20	22	220	195	
20	2210	271	48	3.0	370	22	20	230	190	
30	2215	273	58	3.0	365	22	20	220	185	
45	2230	275	60	2.9	360	22	21		180	Closed line valve slightly
60	2245	276	58	2.8	355	22	21		180	
75	2300	276	55	3.2	325	22.5	20	230	180	Opened line valve repeatedly
90	2315	276	65	3.0	320	22.5	20	230	179.5	
105	2330	276	62	3.0	320	26	21	230	170.0	
120	2345	277	64	3.0	318	26	20	230	170.0	
135	0000	277	64	3.0	315	26	20	230	170.0	
165	0030	277	64	2.9	315	26	20	230	168	
195	0100	277	65	2.9	315	26	21	230	168	
225	0130	277	68	2.9	315	26	22	230	167	
255	0200	277	66	2.9	310	26	21	230	166	
285	0230	277	64	2.9	310	26	21	220	165	
315	0300	277	64	29.	308	26	20	220	165	
				down at 0309	CAUSE UNKOWN					
				started 0325						
375	0400	277	55	2.9	300	28	20	225	165	
390	0415	277	58	3.0	310	27	20	230	165	
405	0430	277	60	2.9	310	27	20	226	165	
420	0445	277	60	3.0	300	27	20	222	165	
435	0500	277	62	3.0	300	28	20	222	165	

RRGE WELL TEST DATA

Well No. 2

Orifice Size 4 5/8

Date 31 May 78

	TIME	TEMP	BACK PRESSURE LINE	Flow Rate	PUMP DISCH PRESSURE	ANNULUS PRESSURE	BEARING FLOW	AMP'S	BUBBLER PRESSURE	
445	0530	277	64	3.0	300	28	20	220	163	
495	0600	277	64	2.9	300	28	20	230	162	
545	0630	277	64	2.9	295	27	20	220	160	
555	0700	277	58	3.0	280	28	20	222	155	
645	0800	277	60	3.0	275	28	19	223	152	
675	0900	277	61	3.0	280	40	19	225	153	
735	1000	277	62	3.0	280	40	19	230	150	
795	1100	277	62	3.0	270	40	19	230	150	
855	1200	277	66	2.9	270	44	19	230	145	
915	1300	277	66	3.0	270	43	20	230	142	
975	1400	277	66	3.0	270	43	19	230	140	
	1450			line psi jumped from 66 to 74					(145)	adjusted value down
	1490			line psi dropped from 66 to 50					(140)	adjusted value up
1035	1500	277	66	3.0	265	43	19	230	137	
1075	1600	277	66	3.0	265	42	19	230	137	
	1635	drop in PSI	54		opened valve				(135)	
	1645	PSI reaching	56		still opening valve		PSI slowly rising		(132)	
1135	1700	277	60	3.0	250	42	19	230	130	
1195	1800	277	61	3.0	250	42	19	230	130	
	1840	drop in PSI	50		am opening valve		PSI slowly rising		(125)	
	1850	PSI reached	60						(125)	
1255	1900	277	60	3.0	230	41	19	230	120	
	1935	jump in PSI	76		am closing valve				(120)	
	1945	PSI reached	60						(125)	

RRGE WELL TEST DATA

Well No. 2

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Orifice Size 4 5/8

Monitor Wells _____ _____

Date 31 MAY 78

DATE	TIME	FLOW TEMP	LINE PRESSURE PSI	FLOW RATE	Pump DISCH PRESSURE	ANNULUS PRESSURE	BEARING FLOW	PUMP AMPS	BUBBLER PRESSURE	COMMENTS
1315	2000	277	64	3.0	245	41	20	230	125	
1375	2100	277	68	3.0	250	40	20	230	130	shut valve slightly
	2110		52						130	drop in PSI am opening valve
	2115		60						130	desired PSI reached
1435	2200	277	62	3.0	240	40	20	230	125	
120	2300	277	64	3.0	240	40	20	230	125	
1555	2400	277	62	3.0	240	40	20	230	125	Shut valve slightly
120	0100	278	62	3.0	240	40	20	230	124	open " "
1675	0200	278	62	3.0	240	40	20	230	122	
120	0300	278	66	3.0	240	40	20	230	122	
1795	0400	278	62	3.0	240	40	20	230	122	
120	0500	278	66	3.0	240	40	20	230	122	
1915	0600	278	62	3.0	235	40	20	225	121	
120	0700	278	62	3.0	240	40	20	220	120	
2035	0800	279	62	3.0	240	40	20	220	119	
80	0900	277	62	3.0	240	40	20	220	119	
	0100	277	62	3.0	240	40	20	220	112	
2215	1100	PUMP DOWN								
	1115	PUMP ON								
2245	1130	277	58	3.0	265	43	19%	236	133	
	1145	277	62	3.0	240	<42	19	236	116	
	1200	277	62	3.0	240	40	19	236	113	
2335	1300	277	62	2.9	240	40	20	240	111	
180										

RRGE WELL TEST DATA

Well No. 2

Date 6-1-78

Orifice Size 4 5/8 Monitor Wells ____

DATE	TIME	FLOW Temp	Line Pressure PSI	FLOW RATE	PUMP OIL PRESSURE	ANNULUS PRESSURE	Bearing AMPS FLOW	AMPS	Bubbler Pressure	COMMENTS
1500	1400	277	62	3.0	240	40	20	240	111	
	1500	277	68	2.9	240	42	20	240	108	
	1550		73						(115)	adjusted value down
2515	1600	277	66	2.9	250	42	20	240	115	
	1610		54						(112)	adjusted value up
	1700	277	64	2.9	225	41	19	235	104	
	1715	277	65	2.9	225	41	19	240	104	
	1800	277	64	3.0	222	41	19	240	104	
2695	1900	277	64	3.0	222	41	20	240	105	
	2000	277	66	3.0	222	41	20	240	105	4.5/8
	2100	277	66	3.0	221	41	20	240	105	
2875	2200	277	66	3.0	225	41	20	240	105	
	2300	277	66	3.0	225	41	20	235	105	
	0000	278	66	3.0	229	41	20	235	106	
	0100	278	66	3.0	228	41	20	235	106	
	0200	278	62	2.9	210	40	20	230	100	adjusted up.
3175	0300	278	64	2.9	215	40	20	235	96	
3175	0400	278	64	2.9	212	40	20	235	95	
	0500	278	64	2.9	212	40	20	235	95	
	0600	278	64	2.9	210	40	20	230	96	
	0700	278	64	2.9	210	40	20	230	96	
	0800	278	64	2.9	210	40	20	230	95	
3595	0900	277	64	2.9	210	40	20	230	95	