

RRGE # 1 RESERVE PIT LOG

6107323-5

DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIAL
9/10/77	0900	11"	73°	—		WB
9/11/77	0945	11"	76°	—		WB
9/12/77	1030	11"	82°	—		WB
9-13-77	12:00	11"	66	—		GC
9-14-77	0910	11"	60°	—		WB
9-15	0920	12"	64	102.9		DF
9-16-77	0915	20"	99	103.1		WB
9-17	0930	23"	104	103.4		DF
9-18	0940	29"	107	104.5	1130 COMMENCED FLOW TO #3 (TRANS-PUMP)	DF
9-19	10:35	17"	98.7	104.5		KP
9-20	08:50	30"	110.0	172.8		GC
9-21	0915	36"	115.6	172.5		DR
9-22	0945	30'	123.1	147.2	0910 PUMPING TO #2 = 1445 CEASED PUMPING 1530 " " " = 1830 " " "	DF
9-23	0900	42"	120	165.3		DF
9-24	1130	16"	124	<del>241.8</del> 166.8	1010 TRANSFER TO #3 P.I.T	DF
9-25	10 00	18	126	<del>232.0</del> 157.8		KP
9-26	0720	30	129	<del>240</del> 160.8		KP
9-27	0945	32"	118	240.76		HN
9-28	01:00	12"	124	241.77	PUMP TO #3 SHUT DOWN	GC
9-29	0830	26"	124	241.77		HN
9-30	0915	28"	107	167.7		KP
10-1	1150	37"	103	171.1	1150 TRANSFER TO #3 P.I.T	DF
10-2	0925	22"	107.5	170.4		DR
10-3	0900	33"	106.8	167.5		KP
10-4	1000	19"	118.2	168.6		KP
10-5	1025	23"	110.4	167.9	A.M. TRANS TO #2	DF
10-6	0915	24"	87	<del>173</del>	" " "	DF
10-7	1040	21'	97	175.4	A.M. TRANS TO #3	DF
10-8	0935	17"	96			DF
10-9	0950	22'	98.5	176.5	? FLOW #2 P.I.T	DF
10-10	11:00	27	99	≈ 90		GC
10-11	09:45	34"	97	≈ 90		GC
10-12	10:02	39	94	≈ 90		SA
10-13	0925	37	60	—		DR
10-14	0855	14	*	—	* DIGMITE MALFUNCTIONS	DF

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DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIAL
10-15	0845	21"	*	174	DIGIMITE MALFUNCTIONS	DF
10-16	0930	35"	*	—		DF
10-17	10:10	24"	108	167.9		IA
10-18	10:08	33	112	169.6		IA
10-19	0825	39	98	165.8		DF
10-20	09:25	12	82	176.8		IA
10-21	09:50	14	76	227.6		IA
10-22	0900	21	76	<del>227.6</del> ~75		IA
10-23	0925	25	76	~75		DF
10-24	10:30	28	77	~75		KP
10-25	10:00	26	75	~75		IA
10-26	10:25	24	75	~75		IA
10-27	09:25	3"	81	~75		IA
10-28	09:35	6"	74	~75		IA
10-29	09:45	14	90	~85		DF
10-30	0915	24	99.4	~85	TRANS PUMP CELLAR DRAINED	DF
10-31	11:30	30	80	~85		IA
11-1	10:40	30	72	~85		IA
11-2	<del>09:18</del> 09:18	36	69	~85		IA
11-3	09:10	30	37	~75		IA
11-4	09:50	36	57	~85		IA
11-5	10:45	40	58	~75	17:00 TRANS. PUMP ON, 24:00 OFF, 27"	GC
11-6	10:15	29	76	~80	16:30 TRANS. PUMP ON, 24:00 OFF 6"	GC
11-7	09:30	9"	76	~80		GC
11-8	0905	12"	52	~80		HIV
11-9	0955	15"	61	~75		DF
11-10	0940	13"	61	~75		DF
11-11	0910	22"	62	~75		DF
11-12	0855	25"	67	~75		DF
11-13	0900	24"	66	~75		DF
11-14	0900	25"	67	~75		KP
11-15	1045	31"	70.6	80	PM 11:16 TRANS TO #3	DF
11-16	0933	32"	67.3	~75	0915 Pumped CELLAR DRY!!!	DF
11-17	0903	17"	67.7	~75	0905 " " "	DF
11-18	0850	21"	57.1	~75	0845 " " "	DF

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DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIAL
11-19	1025	23"	58°	~75	CELLAR PUMP FROZE (PUM FREED CELLAR PUMPED)	DF
11-20	1017	27"	58	~75		
11-21	010:20	28"	65	~80	None	RC
11-22	10:30	33	64	~80		GC
11-23	0915	36"	58	~75		DF
11-24	0915	9"	63	~75	Transfer Pumped out Transfer pump off 1040	KP
11-25	0910	6"	71	~75		KP
11-26	1100	15"	68	~75		DF
11-27	0840	19"	70	~80		DF
11-28	0000	24"	74	-80		RCW
11-29	10:00	17"	74°	80		LU
11-30	0934	Low	68	~75	STAND GAUGE OUT - CELLAR REPAIRS	DF
12-1	0930	Low	66	~75	" "	DF
12-2	0855	Low	63	~75	" "	DF
12-3	0955	"	79	~75	" "	DF
12-4	0940	"	78	~80	" "	DF
12-5	1100	"	76	~70	" "	KP
12-6	10:30	"	82	980	" "	LU
12-7	0955	11"	80	98	11" IN RES. PIT	DF
12-8	0900	15"	54	~98	15" IN RES. PIT	DF
12-9	0755	24"	66	~98		DF
12-10	0955	31"	68	~98		DF
12-11	0945	35"	67	~98	1000 <sup>AM</sup> TRANS TO #3 PIT.	DF
12-12	0910	12"	78	98		LU
12-13	0930	20	77	98		LU
12-14		25"	71	~98		LU
12-15	0910	30"	72	~98		DF
12-16	0916	35"	57	~98		DF
12-17	0902	40"	58	~98		DF
12-18	0940	45"	57	~98	1035 A.M. TRANS TO #3 PIT - 42"	DF
12-18	09:30	7"		~98	TRANS PUMP OFF	GC
12-19	10:00	11"	56	96		GC
12-20	11:00	18"	57	98		
12-21	0848	24"	53	~98		DF
12-22	0845	30"	49	~98		DF

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DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIAL
12-23	0845	36"	57	~98	1033AM TRANS TO #3 off 2000 PM.	DF
12-24	10:30	11"	55	98	/	LU
12-25	10:00	17"	57	98		LU
12-26	10:00	23"	59	98		LU
12-27	10:00	28"	59	98		GO
12-28	0804	32"	58	~98		DF
12-29	0853	39"	59	~98	TRANS #3 & DESERT	DF
12-30	0846	25"	58	~98	TRANS DESERT	DF
12-31	1004	24"	58	~98	" "	DF
1-1-78	0940	18	57	~98	" "	KP.
1-2						
1-3-78	09:30	10"	57	~98		GC
1-4	0910	15	56	~98		DF
1-5	1349	22"	58	~98		DF
1-6	0843	27"	56	~98		DF
1-7	1212	33"	58	~98		DF
1-8	1108	39"	~56	~98		DF
1-9	1400	21"	60.5	~90		GC
1-10	10:00	22	66.6	~90		GC
1-11	1033	30"	~66	~98		DF
1-12	10:20	35"	60	-98		LU
1-13	0912	37"	63.1	-98		DF
1-14	1021	24"	64.9	~98		DF
1-15	1006	30"	65.1	~98	TRANS PUMP ON #3 OFF 1530	DF
1-16	0910	19"	57	98	<del>TRANS PUMP OFF</del>	LU
1-17	1000	25"	59	98		LU
1-18	0941	24"	57	~98		DF
1-19	0937	36"	59	~98		DF
1-20	0949	40"	61	~98	Pump ON 0900 #3	DF
1-21	0953	14"	65	~98		DF
1-22	0931	22"	62	~98		DF
1-23	0930	29"	55	98		LU
1-24	1200	35"	53	98		LU
1-25	0945	39"	54	~98		DF
1-26	0955	42	56	~98	Pump ON 0950 #3	DF

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1-27-78	0940	13"	53			DF
1-28	1129	22"	59			DF
1-29	0810	25"	60			DF
1-30	11:22	33"	59	98		LU
1-31	10:30	36"	56	98		LU
2-1	1105	28"	62	~98		DF
2-2	0917	22"	56	98		DF
2-3	0943	26"	62	~98		DF
2-4	0905	32"	57	98	0905 Pump To #3 OFF	DF
2-5	1010	27'	110			DF
2-6	1145	45'	106°	241.36	Per. min.	LU
2-7	0940	22"	107°	237.8		LU
2-8	0950	40"	104°	238.4	0950 Pump To #3	DF
2-9	0925	18"	92	239.6		DF
2-10	0858	36"	110	239.3	09:15 pump to #3	DF
2-11	0933	25"	107.6	239.4		DF
2-12	1040	39"	97	190.1		DF
2-13	1030	29"	94°	187.0		LU
2-14	1050	54"	98°			LU
2-15	0936	3'9"	80°	~93		DF
2-16	0843	2'1"	66°	~93		DF
2-17	0907	2"	48°	69.3		DF
2-19	1446	1'6"	58°	101.4		DF
2-20	0900	20"	59°			KP
2-21	1000	2'4"	62°	89.6		LU
2-22	1020	2'9"	60°	92.2		LU
2-23	1042	3'2"	60°	98.4		DF
2-24	0900	3'7"	14°	90.0		DF
2-25	1011	2'2"	15°	85.0		DF
2-26	0905	2'10"	15°	85.2	Pump To #3 0905-0911 "OFF"	DF
2-27-78	1110	18"	54°	<del>88.0</del>		LU
2-28	0940	21"	58°	88.1		LU
3-1	1534	26"	-	131.9		DF
3-2	0809	30"	13°	88.9		DF
3-3	0857	39"	23°	139.7		DF

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DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIAL
3-4-78	1722	45'	15°C	139.6	TRANS TO #2	DF
3-5	0945	29'	15°C	144.4		DF
3-6	1000	35"	87°	136.1		LU
3-7	0930	21"	64	136.1		LU
3-8	0855	30"	26°C	147.9		DF
3-9	0856	42'	27°C	132.4	(0920) TRANS TO #3	DF
3-10	0905	21"	29°C	132.6		DF
3-11	1016	26"	26°C	137.1		DF
3-12	0931	41"	28°C	137.2		DF
3-13	0945	35"	81°	139.3		LU
3-14	0930	37"	60°	<del>235.8</del>		DF
3-15	0953	3'6"	34°C	235.8	TRANS TO #3 (0730)	DF
3-16	0910	2'4"	—	232.4		DF
3-17	0855	3'8"	111°F	239.4	TRANS TO #3	DF
3-18	0904	1'6"	117°F	239.0	" " "	DF
3-19	0900	1'10"	115°F	233.6	" " "	DF
3-20	0900	2'1"	117°F	237.9	" " "	LU
3-21	0830	3'5"	107°F	239.7	" " "	LU
3-22	0820	30"	108	238.7	" " "	LU
3-23	1830	30"	118°	239.1	" " "	LU
3-24	1800	40"	108	235.8	" " "	LU
3-25	1250	6"	120	233.9	" " "	DF
3-26	0730	18"	110	234.5	" " "	
3-27	1230	20"	116	232.2	TRANS TO #2	LU
3-28	1130	28"	114			L.H.
3-29	0910	39"	111			LU
3-30						
3-31						
4-1	0830	43"	—	232.0	TRANS #2 (REPAIR PUMP)	DF
4-2	0932	21"	—	233.3		DF
4-5	0800	36"	47°C	233.3		DF
4-6	0757	30"	46°C	246.7		DF
4-7	0900	24"	43°C	232.0		DF
4-8	0716	42"	—	239.9		DF
4-9	0905	30"	—	247.9		DF

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DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIAL
4-10	0845	42"	45°C	235.8		WB
4-11	1010	22"	44°C	339.1		WB
4-12	1005	3'4"	45°C	243.1		<del>WB</del>
4-13	0907	35"	48°C	247.9		DE
4-14	0850	3'5"	48°C	254.9		DE
4-15	0959	2'5"	46°C	254.9		DE
4-16	0846	3'10"	42°C	254.9	TRANS #3	DE
4-17	0840	24"	45°C	247.8		LU
4-18	0840	3'6"	46°C	256.0		LU
4-19	0825	2'9"	44°C	267.8		<del>WB</del>
4-20	1415	3'7"	47°C	254.9		WB
4-21	0810	4"	41°C	164.1		DE
4-22	—	—	—	—		DE
4-23	0935	2'7"	42°C	108.2		DE
4-25	0855	1'10"	44°C	87.2		LU
4-26	0837	1'7"	31°C	110.9		DE
4-27	0810	1'2"	20°C	116.0		DE
4-28	0725	1'	18°C	113.5		WB
4-29	1147	1'11"	32°C	158.6		DE
4-30	1020	2'2"	34°C	165.9	INCREASED FLOW TO Fill pit	DE
5-1	0820	48"	35°C	276.5		LU
5-2	0830	18"	30°C	282.1		LU
5-4	0830	3'5"	40°C			LU
5-5	0845	3'9"	19°C	162.3		WB
5-6	0930	11"	42°C			KP
5-7	0730	17"	—			KP
5-8	0800	22"	24°C			LU
5-9	0715	26"	20°C	102.7		WB
5-10	0850	2'8"	20°C			LU
5-11	0805	2'6"	22	116.2		LU
5-12	0900	2'10"	24°C	138.9		LU
5-13	0730	1'7"	18°C	136.9		HN
5-14	0832	—	—	128.0		DE
5-15	0915	10"	20°C	108.2		WB
5-16	0815	8"	17°C	87.2	at 0830 increased flow to 143	WB

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DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIALS
5-17	0740	20"	28°C	164.1		WB
5-18	0745	21"	33°C	156.8		WB
5-19	0730	32"	36°C	160.5		WB
5-20	100.5	—	—	154.9		DE
5-21	1020	36"	37°C	158.6		VP
5-22	0840	32"	38°C	165.0		WB
5-23	0745	45"	—	93.7		WB
5-24	035	3'9"	44°C	99.7		LH
5-25	0855	3'11"	68°F	116.0		WB
5-26	1000	3'2"	66°F	96.8		WB
5-27	9:30	3'6"	70°F	90.5		LH
5-28	0950	3'6"	'	99.7		DE
5-29	1530	3'3"	—	—	FLOW TO #3 "REINJECTION"	DE
5-30	0940	18"	30°C	210	" "	LH
5-31	0820	30"	110°F			LH
6-1	0730	7"	108°F	223		WB
6-2	1000	19"	114°F	254		WB
6-3	1130	3'	112°F	—		TW
6-4	13:45	11"	115			TW
6-5	0920	36"	120	237		LH
6-6	1045	36"	108	248		WB
6-7	1130	48"	112°	246		WB
6-8	0930	3"	—	263		WB
6-9	10 <sup>35</sup>	20"	110°	223		WB
6-10	2200	21"	115	225		T.W.
6-12	0820	35"	110°	265		WB
6-13	0830	3'3"	112°	230.7		LH
6-14	0755	1'9"	114	268.2		TR
6-15	0905	17"	113	256		WB
6-16	1000	20"	112	258		WB
6-18	1050	26	107	258		KP.
6-19	0915	39	109	269		WB
6-20	0830	19"	111°F	268		WB
6-21	0845	18"	112°	261		WB



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DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIALS
6-23	0830	9"	-	270		WB
6-25	09:15	33"	89.5	231		TR
6-26	08:13	27"	-	221.9		TR
6-27	0800	33"	-	265.0		TR
6-28	0825	17"	-			TR
6-29						
6-30						
7-1	1800		-	192.0	Test Trailer & Young Ratchet back to normal operations	DF
7-2	2015		-	198.0		DF
7-5		21"		?	Computer & test loop shut down	WB
7-6		10"	-	250.2	test loop down	WB
7-7	1050	8"	-	288.3		WB
7-8	0905	27"	124	289.3		WB
7-9	0815	29"	119	289.3		WB
7-10	0800	46"	123	290.3		WB
7-11	0830	15"	118	275		WB
7-12	0800	8"	108	289.3		WB
7-13	0815	33"	115	323.7		DMT
7-14	0840	43"	111	320.1		DMT
7-15	0750	37"	113	294.0		DF
7-16	0845	-	-	290.7		DF
7-17	0815	29"	122.0	320.0		WB
7-18	0820	24"	124	320		WB
7-19	0845	24"	122	320		WB
7-20	0820	18"	122	319.1		WB
7-21	0830	36"	120	301.2		WB
7-22	0915	42"	120	257.2		TR
7-23	0910	25"	132	258.3		TR
7-24	0845	50"	128	259.9		WB
7-25	0820	27"	125	279.0		WB
7-26	0810	15"	124	275.3		WB
7-27	0835	32"	129	317.3		WB
7-28	0830	30"	130	315.4		WB
7-29	0940	33"	131	306		WB

of 2454  
3.6"

DATE	TIME	DEPTH	TEMP.	FLOW	COMMENTS	INITIAL
7/26/77	08:20	35"	111.1	50.0	Flow from #1 well shut in 14:00	TR
7/27/77	08:00	32"	91.6	-		TR
7/28/77	08:20	16"	81.7	-	Use of U 10gpm for 4 hrs	TR
7/29/77	08:00	18"	78.2	10.0		TR
7/30/77	09:30	18"	<del>78.2</del>	-		WB
7/31/77	09:30	18"	<del>78.2</del>	-		WB
8/1/77	10:00	17"	90°	189 gpm	Flow from #1 well is @ 8:30	WB
8/2/77	10:00	21"	110	6.2 gpm	Test trailer shut down 0745	WB
8/3	08:30	10"	78.6	0		TR
8/4	09:00	6"	70.6	-		TR
8/5	09:00	3"	71.9	~130	Flow into pit ~ 130gpm 08:00	TR
8/6	10:30	12"	84	107	Flow shut 08:20 to 12:20	TR
8/7	09:00	25"	87.5	192.8		TR
8/8	09:00	31"	120.4	182.7		TR
8/9	09:15	38"	125.0	185.0		TR
8/10	08:00	Bottom of gage	-	176.5		TR
8/11	09:30	13"	108.2	173.0		TR
8/12	08:45	21"	123	178.3		TR
8/13	09:15	28"	128°	<del>220</del>		WB
8/14	09:30	18"	109	~100		WB
8/15	08:45	13"	92°	~100		WB
8/16	09:45	30"	129°	318	all flow to #1 pit	WB
8/17	09:00	42"	132°	<del>244</del>	Well flow off 15:45	WB
8/18	09:00	36"	95.5°	-		TR
8/19	08:00	28"	89.7	-		TR
8/20	09:00	20"	85.6	-		TR
8/21	08:30	13"	76.6	-		TR
8/22	08:45	21"	134.6	228.1		TR
8/23	08:50	31"	131.2	236.3		TR
8/24	08:50	33"	131.7	229.7		TR
8/25	07:20	39"	118.6	229.7		TR
8/26	09:30	32"	90.0°	<del>225</del>		WB
8/27	09:15	29"	72	<del>225</del>		WB
8/28	10:30	26"	72	<del>225</del>		WB
8/29	09:00	24"	70	~30		WB
8/30	08:30	22"	68°	~30		WB
8/31	08:25	21"	68	~30		WB
9/1	09:20	20"	67	<del>---</del>		WB
9/2	09:30	20"	68	<del>---</del>		WB
9/3	09:20	18"	72	<del>---</del>		DF
9/4	09:40	12"	72	<del>---</del>		DF
9/5	09:10	11"	70	<del>---</del>		RP
9/6	06:05	12"	73	<del>---</del>		RP
9/7	10:00	12"	77°	<del>---</del>		HN
9-8	09:45	6"	71°	<del>---</del>		HN
9-9	09:50	7"	68	<del>---</del>		DF

DATE	TIME	DEPTH	TEMP.	FLOW INTO	COMMENTS	INITIALS
6-6	10:45	35"	120°	168.8	FLOW SHUT DOWN AT 12:00	GC
6-7	9:45	27"	90°	0	" " " " / ON 13:30	84
6-8	9:00	29"	114°	160.9	FLOW DIVERTED TO #2 PIT 23:00	TR
6-9	9:00	29"	93.1	0		TR
6-10	9:15	28"	86.8	0		TR
6-11	9:10	21"	77.1	0		TR
6-12	08:55	16"	74.7	0		TR
6-13	09:15	10"	74.3	0		TR
6-14	07:40	9"	71.2	0		TR
6-15	09:20	8"	69.6	0		TR
6-16	09:30	8"	73.0	0		TR
6-17	07:30	8"	62.2	0		TR
6-18	10:45	7 1/2"	61.2	0		JMD
6-19	10:00	7 1/2"	60.3	0		JMD
6-20	11:30	7"	68.6	0		JMD
6-21	10:00	7 1/2"	64	0		JMD
6-22	9:45	3"	-	0	Flow diverted to #2 pit 09:45	JMD
6-23	9:00	0" (dry)	dry	0	pit drained out thru pump cellar	JMD
6-24	8:30	0" (dry)	dry	0		JMD
6-25	08:15	DRY	DRY	0		TR
6-26	09:00	DRY	DRY	0		TR
6-27	08:25	DRY	DRY	0		TR
6-28	08:20	DRY	DRY	0		TR
6-29	08:10	DRY	DRY	0	UofU brine flow 14:00 → 16:00	TR
6-30	09:00	DRY	DRY	0	UofU brine flow 8:30 - 5:00pm	TR
7-1-77	08:30	dry	dry	0	UofU brine flow 8:30 - 5:00pm	JMD
7-2-77	08:45	dry	dry	0		JMD
7-3	08:30	dry	dry	0		JMD
7-4	09:50	dry	dry	0		JMD
7-5	09:30	dry	dry	0		JMD
7-6	10:30	dry	dry	0		JMD
7-7	8:20	dry	dry	10.0	UofU brine flowing into small	TR
7-8	8:00	dry	dry	10.0	diked area within pit	TR
7-9	08:45	dry	dry	0		TR
7-10	08:20	dry	dry	0		TR
7-11	10:30	dry	dry	0		TR
7-12	10:15	dry	dry	0		TR
7-13	11:30	dry	dry	0		TR
7-14	11:30	dry	dry	0		TR
7-15	10:30	dry	dry	10.0		TR
7-16	10:15	dry	dry	0		WB
7-17	10:30	dry	dry	0		WB
7-18	10:30	dry	dry	0		WB
7-19	14:45	dry	dry	10.0		WB
7-20	08:50	dry	dry	0	flow into pit ~ 125 gpm 13:00	TR
7-21	15:00	dry	dry	60.5	flow into pit ~ 60 gpm 11:00	TR
7-22	12:00	17"	116	50.1		TR
7-23	08:50	22"	118.6	49.1		TR
7-24	09:30	29"	116.0	48.4		TR
7-25	07:45	33"	117.0	50.8		TR

# RRGE #1 RESERVE PIT LOG

DATE	TIME	DEPTH	TEMP.	FLOW INTO	COMMENTS	INITIALS
4-17-77	9:15	17"	55.5	8.5		T.R
4-18-77	9:30	16"	52.8	8.5		T.R
4-19-77	9:30	13"	49.0	8.5	Line opened off well ~125gpm; 13:20	T.R
4-20-77	9:45	15"	66.9	133	"	TR
4-21-77	09:30	16"	80.0	133	"	T.R
4-22-77	07:30	19"	79.6	132.8	Line flow increased to 150 gpm 15:30	T.R
4-23	07:30	18"	72.3	157.8		DE
4-24	09:50	29"	78	45.1	Line closed into pit 01:00	DF
4-25	10:00	29"	80	45.1		R.S.
4-26	10:00	24"	55	43.2		L.Y.
4-27	09:30	17"	68.5	44.7	Opened line into reserve pit ~90gpm 1900	TR
4-28	09:30	29"	113.0	44.6	Line closed off #1 well 8:30	TR
4-30	09:00	14"	68.1	43.8	Line opened off #1 well 11:55 250gpm	TR
5-1	09:00	24"	110.8	285.4	Line closed off #1 well 3:05	TR
5-2	09:00	26"	86.0	45.9		TR
5-3	09:00	21"	76.1	50.9		TR
5-4	09:50	17"	63.1	45.9		TR
5-5	09:35	18"	64.5	51.2	16:45 Flow cracked to #2 pit ~10gpm	TR
5-6	07:10	18"	55.2	39.7		TR
5-7	08:55	19"	54.0	39.7	Flow diverted from trailer test to #2 pit 19:00	TR
5-8	15:00	18"	57	11.9		TR
5-9	09:30	19"	57	11.9		TR
5-10	10:45	16"	56	11.9		TR
5-11	10:15	15"	56.8	21.9		TR
5-12	9:15	13"	55.6	11.9		T.R
5-13	10:00	13"	60.4	19.2		T.R
5-14	9:30	12"	57.6	9.2		T.R
5-15	7:15	12"	52.7	9.2		T.R
5-16	09:30	12"	49.4	9.2		T.R
5-17	09:05	12"	47.1	9.2		TR
5-18	09:15	12"	48.5	19.2		TR
5-19	09:30	12"	49.3	13.7		T.R
5-20	07:20	12"	46.0	13.7		T.R
5-21	09:40	12"	50	2.0		DF
5-22	08:45	11"	48.7	2.0		DF
5-23	09:30	12"	49.1	2.0		RJ
5-24	09:15	12"	48.9	2.0		L.Y.
5-25	09:45	8"	58.9	12.5		TR
5-26	10:15	7"	63.0	12.0		TR
5-27	09:15	7"	56.9	2.0		TR
5-28	09:35	7"	55.8	2.0		TR
5-29	11:45	6"	56.5	2.0		TR
5-30	9:05	5"	53.0	1.0		TR
5-31	09:10	6"	57.8	1.0		TR
6-1	09:15	4"	65.0	~160	Flow diverted from test to pit at ~150gpm	TR
6-2	08:50	14"	82.7	~160		TR
6-3	07:26	22"	104.4	~150		TR
6-4	08:50	29"	108.3	~169		DF
6-5	08:50	36"	118.4	~169		DF

KRUE #1 RESERVE PIT LOG

DATE	TIME	DEPTH	TEMP.	FLOW INTO	COMMENTS	INITIALS
2-24	08:20	19"	FROZEN	12.4		T.R.
2-25	08:40	19"	0	24.3	ADDED ECO. HT. BY U. OF U.	D.F.
2-26	07:30	20"	0	23.0		DF
2-27	07:30	20"	0	<del>12.4</del> 24.2		SH
2-28	10:50	20"	7°C 46°F	24.8		GC
3-1	10:50	21"	45.7			
3-2	8:30	21"	43.7	23.2		TR
3-3	09:10	21"	35.2	23.2		TR
3-4	10:00	20"	44.2	15.1		TR
3-5	10:10	19"	41.8	15.1		TR
3-6	09:00	18"	41.3	15.1		TR
3-7	09:50	16"	45.5	15.1		TR
3-8	10:00	16"	44.4	15.1		TR
3-9	09:30	15"	45.6	15.1		T.R.
3-10	09:00	15"	35.4	15.1		T.R.
3-11	08:45	15"	35.5	15.1		T.R.
3-12	1000	13"	0°	-		DF
3-13	09:45	13"	0°	-		DF
3-14	09:30	13"	34.5	15.1		SH
3-15	09:30	13"	37.8	15.1		SH
3-16	10:30	13"	42.7	15.1		T.R.
3-17	10:00	13"	41.6	14.5		T.R.
3-18	11:30	13"	44.0	14.5		T.R.
3-19	11:00	13"	41.1	14.5		T.R.
3-20	1000	13"	38	"		DF
3-21	10:05	13"	46.4	"		RS
3-22	08:00	13"	43.7	14.0		T.R.
3-23	10:20	12"	42.9	8.1		T.R.
3-24	10:30	11"	45.0	8.1		T.R.
3-25	10:30	11"	45.8	3.0		T.R.
3-26	9:30	10	45.2	3.0		RS
3-28	10:00	11	40	3.0		RS
3-29	09:00	12	42	80.5	All Flow into #1	RS
3-30	10:00	14"	54.3	83.1	Flow into pit is < 83.1	T.R.
3-31	10:00	17"	60.9	87.8	Flow into pit is < 87.8	T.R.
4-1	10:30	18"	71.3	~79.9	Flow into pit is very approx.	T.R.
4-2	9:30	17"	54.3	11.2	Flow diverted to #2 pit 15:00; 4/1/77	T.R.
4-3	7:40	17"	48.6	11.2		T.R.
4-4	8:30	18"	51.1	11.2		T.R.
4-5	9:30	18"	53.3	11.2		T.R.
4-6	09:45	17"	55.5	11.2	line opened off well ~ 30gpm	T.R.
4-7	09:45	17"	62.9	~35		T.R.
4-8	07:45	15"	52.0	~35		T.R.
4-9	0800	14"	54	~35	line increased to ~40gpm	KP
4-10	0830	14"	53	~35		DF
4-11	16:00	16	77.9	~35		GC
4-12	11:00	16	73.0	~35		GC
4-13	09:45	17"	82.2	~49.5		TR
4-14	09:30	19"	79.2	~53.2	line off well shutdown 16:30	T.R.
4-15	08:45	19"	81.7	8.5		T.R.
4-16	06:45	17"	61.3	8.5		T.R.

RR61 RESERVE PIT LOG

NOTE: RESERVE PIT TEMPERATURE IS  
TAKEN OFF THE BANK OPPOSITE  
THE DEPTH STICK.

RIDGE #1 PIT TEMP. LOG

DATE + TIME	TEMP	DEPTH	COMMENTS
8/5/76 0800	140	2'9"	
1000	130	2'3"	
8-6-76 0700	105	2'7"	
8-7-76	130	2'11"	
8-11-76/0830	130	2'5"	TRANSFER PUMP ON AT 0830.
1700	130	15"	OFF AT 1700 (1.6"/HR PUMP DOWN RATE)
8-12-76 0700	135	27"	T-PUMP ON AT 0700 OFF FOR UNEXPLAINED REASON SOMETIME BEFORE 1245
1000	SHUT WELL IN		ON AGAIN AT 1245
1630	130	15"	DEPTH AT 23" OFF AT <del>1530</del> 1530
			ON AGAIN AT 1705 FOR PUMPDOWN OF #1 PIT - TO DIAGNOSE SUCTION PROBLEMS. OFF AT 2015
8-13-76			<del> </del> PIT PUMPDOWN COMPLETELY TRANSFER PUMP MAINTENANCE - FLOW RE-STARTED AT 1400 HRS.
8-14-76 0800	151°	23"	
1155	151	27"	T-PUMP ON AT 1155 - SP ≈ 125 PSI SP DECREASED TO 80 PSI AT 1235.
1500	137°	19"	
1600	140°	17"	
2115	-	6"	T-PUMP OFF AT 2115 FLOW RATE SINCE 1500 IS ~2"/HR.

RRGE #1 PIT LOG

TIME	TEMP	DEPTH	COMMENT
8-15-76 0700	125°F	18"	
1000	—	22"	T-PUMP STARTED (BP = 80PSI) PACKING LEAKING BADLY.
1300	—	16"	OFF AT 1300 — PACKING TIGHTENED DOWN NEARLY ALL THE WAY.
1600	130°	15"	T-PUMP ON, PACKING LEAKING BADLY. STILL — SET W SEAL PUMP TO HELP THE SURF PUMP KEEP W.
1730	130°	15"	OFF AT 1730
8-16-76, 0800	140°	27"	T-PUMP ON AT 0800
1600	—	12"	OFF AT 1600
1700	127°	14"	
8-17-76 0745	120°	27"	
1530	—	32"	T-PUMP ON AT 1530. PACKING LEAK TEMP BADLY REPAIRED. PUMPING RATE PROBLEM POSSIBLY SOLVED — SHAFT WAS SLIPPING.
8-18-76 0145	—	~10"	PUMP OFF
0730	130°	~15"	T-PUMP ON AT 0730, DEPTH AT 15".
0850	—	17"	OFF TO CHANGE OUT A VALVE ON LINE.
0920	—	18"	ON AT 0920
1140	—	15"	PUMP OFF
8-19-76 0600	—	28"	Tubing Pump on
1045	141	13"	



REC'D PIT LOG

TIME	TEMP	DEPTH	COMMENT
8-19-76 1430 1500	— —	12"	SHUTDOWN RATE = 2"/HR. PUMP OFF
8-20-76 0700	141	20"	
0935	—	27"	T-PUMP ON AT 0935
8-21-76 0745	94	24"	OFF AT 1600 Pump ON AT 1500 OFF AT 2100
8-22-76 0745	96	30"	Pump ON AT 0900 OFF AT 1830
8-23-76	98	28"	
8-23-76 1300 1720 1910 2100 2310		30" Flow into Reduced to 18" 20" 16"	Transfer pump ON ~ 200 gpm T.P. OFF T.P. ON T.P. OFF
8-24-76 09:00 1745 2300		21" 27" ~24"	T.P. ON T.P. OFF (Too Much Steam)
<del>8/27/76</del>	<del>8:00</del>	<del>10°</del>	<del>28 1/2"</del>
8/25/76 0900 1500 2100	144° 141°	23" 27" 18"	T.P. ON T.P. OFF
8/26/76 0800	116°	22"	T.P. ON 12:40 P. Off 9:40 P.
8/27/76 0730 1700	124° 118°	27" 14"	TP OFF at 1400
8/28/76 0830 1200 1645	124° <del>132°</del> 140°	25" 27" 16"	TP off TP ON TP off
8/29/76 0700 0815 1530	115° 112°	27" 16"	TP ON TP off at 1415

Date	TIME	DEPTH	TEMP	COMMENT
8/30/76	0845	27"	126°	TP ON at 0845
	1330	17"	123°	TP off at 1330
8/31/76	0820	33"	120°	TP ON at 0820
	1500	#17"	129°	TP off at 1445
9-1-76	0800	28"	130°	TP ON 0800
	1410	11"	118°	TP off at 1410
9-2-76	0810	26"	130°	TP off at 0810
	<del>1330</del> 1330	15"	120°	TP off at 18:30
<i>Transfer pump was off today for ~20 while work was being done on it.</i>				
9-3-76	0750	31"	126°	TP ON at 0750
	1445	15"	118°	TP OFF AT 1445
9-4-76	0815	30"	121°	TP ON AT 0815
				OFF 1430
9-5-76	0830	30"	122°	TP ON 0805
9-6-76	0700	28"	125°	OFF 1450
9-7-76	010:00	28"	124°	TP ON AT 010:00
9-7-76	17:12	12"	125°	TP OFF
9-8-76	08:25	24"	100°	TP ON
	<del>1215</del>	12"	120	TP OFF
9-9-76	0800	21"	93°	TP ON
	1040	13"		TP OFF
9-10-76	0850	24"	110°	TP ON
	1300	13"	112°	TP OFF
9-11-76	0900	24"	128.3	TP OFF - 1200
	12:50	28"	125	TP ON - 1250
9-12-76	0830	24"	120	T.P. ON - 0815 off 1200
9-13-76	0710	29"	121	T.P. ON - 0900
	1410	4"		OFF
9/14/76	07:45	16"	96.3	
	1230	18" @ Sump.		T.P. ON
	1600	6"		T.P. OFF
9/15/76	09:00	18"	129.9°	
	1225	18"		T.P. ON (well off)
9-16-76	0:8:30	18"	128.5	(T.P. ON) (well off)
9-17-76	0:9:00	0"	<del>0.00</del>	(T.P. OFF)
9-18-76	0:8:00	0"	0.00	(T.P. from 1# to 2#)
9-19-76	0:7:00	0"	0.00	H <sub>2</sub> O FROM #1 GOING STRAIGHT TO #2

Date	Time	Depth	Temp.	Comments
9-20-76	1630	0000		Reverted water in #1
9-21-76				
9/22/76	10:00	11"	89.7	
9/23/76	8:00	16"	68.0	
9/24/76	8:00	20"	65.	
9/25/76	8:50	29"	99.8	
9-26-76	7:30	24	96.0	
9-27-76	8:00	35	72.3	
9/28/76		28"	69.0	
9/29/76		26"	61.3	
10-1-76		25"	66.0	
10-2-76	0800	25"	66.0	T.P. ON 13:00 OFF 18:00
10-3-76	0800	8"	67.0	T.P. ON 0800
10-4-76		Pumped	Dry	
10-5-76	0:9:30	9"	270°	160 T.P. ON AT 0920
10-6-76				
10-7-76	08:30	2	280°	142.
10/8/76	08:30	15"	102°	T.P. ON
10/9/76	08:30	—	—	Flow to 2#
10/10/76	0800	—	—	Flow to #2 P.T.
10/11/76	0800	—	—	" " " "
	1525	4"	Turned flow into #1	
10-13-76	0840	21"	Pumping to #2	
10-14-76	08:38	18	272°	NO FLOW, T.P. ON 14:00 TO 17:30
10-15-76	08:30	12	272°	NO FLOW, T.P. ON 13:15 TO 14:15
10-16-76	08:30	2"	NO FLOW INTO PCT.	
10-17-76	08:00		" " "	
10-19-76	08:30	=	" " "	NO #1
10-20-76	08:30	=	" " "	NO #1
10/22-76	08:30	=	" " "	NO #1
10/23/76	08:30	=	" " "	NO #1

DATE	TIME	DEPTH	TEMP	COMMENTS
11-8-76	08:00	DRY	—	PIT DRY - NO INFLOW
11-11-76	20:45	—	—	5 GPM INFLOW FROM #1 WELL
11-15-76	15:18			FLOW BACK INTO PIPE LINE
11-15-76	17:30			FLOW INTO #1 PIT ≈ 45 GPM
11-17-76	09:00	21"		" " "
11-18-76	09:00	22"		" " "
11/19/76	09:00	21"		FLOW TO #2 PIT ≈ 48 GPM
11/23/76	08:00	22		Flow to #2 Pit ≈
11/25/76	08:00	22		" "
11/26/76	08:00	21	FROZEN	" "
11/27/76	08:00	21		" "
11/28/76	08:00	21		" "
11/30/76	08:00	12" FROZEN		FLOW FROM TEST BLDG. HTDS. INTO #1
12-1-76	08:30	12" "		" " " "
12-2-76	08:30	12" "		" " " "
12-3-76	08:30	12" "		" " " "
12-4-76	08:00	12" "		" " " "
12-7-76	08:30	12" "		" " " "
12-8/76	08:30	12" "		" " " "
12-9-76	09:00	" "		" " " "
12-10-76	08:30	" "		" " " "
12-11-76	08:30	" "		" " " "
12-12	08:30	12" FROZEN		" " " "
12-13	09:00	12" "		" " " "
12-15-76	08:00	12" "		" " " "
12-16	08:30	12" "		" " " "
12-17	09:00	12" "		" " " "
12-18	09:30	14" "		" " " "
12-19	09:30	14" "		" " " "
12-20	10:00	13" "		" " " "
12-21	9:00	12'		" " " "
12-22	10:00	12'		" " " "
12-23-76	09:30	14" "		" " " "
12-24-76	00:30	14" "		" " " "
12-25-76	09:00	14" "		" " " "
12-26	09:30	15" "		" " " "
12-27	09:30	15" "		" " " "
12-28	09:30	15" "		" " " "
12-29	09:00	15" 0°		" " " "
12-30	09:00	14'		" " " "
12-31	08:00	14" "		" " " "
1-1-77	08:30	14" "		" " " "

KP  
RJ  
KP

DF  
DF  
DF

KP  
DC  
DF  
RS

LU  
LU  
LU  
LU  
DF  
DF  
DF  
DF  
LU  
LU

DATE	TIME	DEPTH	TEMP.	COMMENTS	
1-2-77	0900	14"	0	FLOW FROM TEST BLDG.	HTRS
1-3-77	0900	14"	0	INTO RES. #1	DF
1-4-77	08:30	14"	0	"	LU
1-5-77	09:00	14"	0	"	LU
1-6-77	09:00	14"	0	"	LU
1-7-77	08:30	14"	0	"	LU
1-8	08:30	14"	0	"	DF
1-10	08:30	14"	0	"	LU
1-11-77	08:30	14"	0	"	LU
1-12-77	08:30	14"	0	"	LU
1-13-77	08:30	14"	0	"	LU
1-14	09:00	12"	0	"	DF
1-15	9:00	14"	0	"	LU
1-17	9:00	14"	0	"	LU
1-18	8:30	12"	0	"	TR
1-19	0830	12"	0	"	DF
1-20	08:30	12"	0	"	LU
1-21	0900	12"	0	"	DF
1-22	0900	14"	0	"	DF
1-23	0900	14"	0	"	DF
1-24	0930	14"	0	"	TR
1-25	9:00	14"	0	"	LU
1-26	08:30	15"	0	"	TR
1-27	09:00	17"	0	"	TR
1-28	11:30	17"	0	"	TR
1-29	0900	17"	0	"	DF
1-30	0930	17"	0	"	DF
1-31	0930	15"	0	"	LU
2-1	0900	15"	0	"	LU
2-2	09 45	14"	0	"	TR
2-3	08:30	14"	0	"	TR
2-4	09:00	15"	0	"	TR
2-5	0900	15"	0	"	TR
2-6	09:30	16"	0	Flow into pit	TR
2-7	13:30	16"	0	11.4 gpm	TR
2-8	8:45	17"	0	11.4	TR
2-9	8:30	17"	0	15.0	TR
2-10	8:00	17"	0	13.7	TR
2-11	09:30	17"	0	13.2	TR
2-12	0920	17"	0	15.6	DF
2/13	0715	17"	0	14.8	KP.
2/14	0:945	17"	0	12.6	RS.
2-15	10:00	16"	0		TR
2-16	09:00	17"	0	13.1	TR
2-17	09:00	17"	0	13.1	TR
2-18	08:30	17"	0	20.6	TR
2-19	08:00	17"	0	20.9	TR
2-20	08:15	18"	0	21.0	TR
2-21	08:15	18"	0	19.3	TR
2-22	08:00	18"	0	21.3	TR
2-23	08:15	18"	0	18.2	T.R.