

Time	Temp	Press (WH)	Flow 1 (north)	Flow 2 (South)	Orifice ΔP	Comments
9/11/76						
0900	271°	141			.6	141
9/12/76						
0850	270°	141			.7	143 KR
9/13/76						
0720	269°	140			.6	142
0705	273.0	142			.7	144
9/15/76						
0900	272.3	145			.7	145
1225	272.3	143			.7	Well off
8:30	273.2	142			.6	RS
9/16/76						
9-17-76	273.2	139			.8	139.
9-18-76	272.1	139			.75	141
9-19-76	273.1	137			.7	140 KR
9-20-76	273.3	135			.7	140
1630		135			.7	142
9-21-76					.08	Turn water in #1
9-22-76	273.4	142			.8	145
9-23-76	272.7	141			.8	143
9-24-76						
9-25-76	272.6	144			.75	142
9-26-76	272.5	144			.7	142
9-27-76	205.8	162			.7	162 RS
10-1-76						Well being shut in
10-2-76						" " " "
10-3-76						" " " "
10/4/76						" " " "
10-5-76	270°	160			.8	160 RS
10/8/76	278°	140			.1	150
10/9/76	278°	147			.1	150
10/10/76	278°	146			.1	150 KR
10/11/76	278°	145			.1	149
1525						De-aerated #1 into #2
10/12/76	278°	145			.1	149 #1 into #2
10-13	272	150			.1	147
10/14/76	272	150			.1	147
10-16-76	272	145			.1	148
10-17-76	272	146			.1	147 KR
10-18-76					.2	150 RS

NO SOUTH FLOW

No South Flow

Well being shut in

De-aerated #1 into #2

Long Back Pressure

Time	Temp	Press (WH)	Flow 1 (north)	Flow 2 (South)	Orifice ΔP	Comments
8/25/76 0700 1300	273	126			8" 9"	135 Started materials test loop flow at ~160 gpm Dp remainder routed thru by-pass line to pond.
8/26/76 0800 1530	272 275	124 123			9" 9"	133-P 134-P
8/27/76 0730 1700	272 273	121 125			9" 9"	130-P 135-P
8/28/76 0830 1530	273 275 276°	124 125			9" 9°	134 135
8/29/76 0700 1530	272° 277°	125 125			8" 8"	135 135
8/30/76 0900 1600	273° 275 275°	125 125 125			8" 8" 8"	135 135 135
8/31/76 0830 1445 9-1-76 0800 1445	273° 275° 272° 275°	125 125 125 125			8" 9" 8" 9°	135 135 135 135
9-2-76 1030	273 276	125 124			no gauge ✓	135 135
9-3-76 1445	273 274°	123 123			no gauge ✓	133 134
9-4-76 9-5-76 9-6-76 9-7-76 9-8-76 9-9-76 1500 0800 1500	276° 275° 276° 280° 273 275 275	122 123 123 123 141 141 141			No Gauge " " " " " " No Gauge #07 /	133 134 135 135 142 144 143

well

off
Δp

1p. gauge -

LINE
BACK PRESSURE

INCREASE H₂O

	Time	Temp	Press (WH)	Flow 1 (north)	Flow 2 (South)	Orifice ΔP	Comments
2	8-13-76	START-UP					
3	1400	220	131			14	72
4	1405	238	123			14	84
5	1410	248	122			14	93
6	1415	256	118			14	94
7	1430	260	118			14	97
8	1500	270	121			14	100
9	1600	278	119			14	106
10	2100	274	117			14	104
11	8-14-76	275	115			13	103
12	0700						
13	1500	277	114.5			13	103
14							
15	8-15-76	273	113			13.5	101
16	0700						
17	1600	273	113			13.0	102
18							
19	8-16-76	273	113			13	101
20	0700						
21	1700	275	113			13	102
22							
23	8-17-76	273	113			13	101
24	0700						
25	1600	273	113			13	102
26	2100	273	83			20	64
27							increase ~1700
28	8-18-76	273	78			20	64
29	0730						
30	1800	273	112			13	103
31	0630	276	112	← 8-18-76		13	101
32	1015	273	112			13	101
33	1600	273	112			13	103
34							
35	8-19-76	273	112			13	101
36	0700						
37	8-21-76	273	112			13	101
38	0745	273	112			13	101
39	1800	273	112			13	101
40							
41	8-22-76	273	112			13	104
42	8-23-76	273	122			9"	84
43	1830						83
44	8-24-76	273	123			9	
45	1830	Well	road material samples removed - flow adjusted to 9" ΔP across the orifice				

	Time	Temp	Press (WH)	Flow 1 (north)	Flow 2 (South)	Orifice ΔP	Comments
1	8-2-76						
2	0715	273	117			14" H ₂ O	73
3	1700	273	117			14"	74
4	8-3-76						
5	0700	273	117			14"	74
6	0700	275	116			13.5"	74
7	0700	275	116.5			14"	74
8	8-4-76						
9	0800	273	116.5			14"	74
10	1600	273	116.5			14"	74
11	8-5-76						
12	0700	273	116.5			14"	74
13	1700	273	123.5			12"	74
14	8-6-76						
15	0730	273	123.5			12"	79
16	1900	272	123.5			12"	87
17	8-7-76						
18	0730	273	123.5			12"	89
19	1900	272	123.5			12"	92
20	8-8-76						
21	0830	272	123			12"	92
22	1500	272	122			12.5	90
23	8-9-76						
24	0700	272	122			12.5	90
25	1200	272	121			12.5	89
26	8-10-76						
27	0800	272	122			12.5	88
28	1700	272	122			15.0	91
29	8-11-76						
30	0700	272	122			13.0	91
31	0700	274	121			13.0	91
32	8-12-76						

Stopped Flow Thru Corrosion Test TRAIL

SHUT IN

$Q = 82.3 \sqrt{H \text{ in } H_2O}$

4.623 Orifice
 $\Delta P_{psi} = 5.32 \times 10^{-6} [Q_{gpm}]^2$
 $Q = 433.6 \sqrt{\Delta P_{psi}}$
 $27.69'' = 1 \text{ psi}$

	Time	Temp	Press (WH)	Flow 1 (north)	Flow 2 (South)	Orifice ΔP	Comments
1	7/26/76						Start Flow into #1 Pond
2	1350	94	141.5		4" H ₂ O	4" H ₂ O	No. Flow Meter for North South
3	1355	190	141.5		4" H ₂ O	4" H ₂ O	5" Computed Press Head
4	1400	194	131.5		6" H ₂ O	6" H ₂ O	1. increased flow
5	1402	198	131.5		"	"	
6	1404	202	131.5		6" H ₂ O	6" H ₂ O	
7	1406	203	132		5" H ₂ O	5" H ₂ O	
8	1410	212	132		5"	5"	(PIT) located Level 1
9	1414	216	133		5"	5"	1 1/2'
10	1416	222	134		5"	5"	
11	1420	228	134		5"	5"	
12	1425	228	132		5"	5"	
13	1430	230	132		5"	5"	
14	1440	230	134		5"	5"	
15	1500	233	130	10"	14"	14"	Increased Flow
16	1502	254	130		14"	14"	
17	1505	257	128.5		14"	14"	
18	1510	259	127		13"	13"	
19	1515	260	128		13"	13"	
20	1540	265	129.5		13"	13"	
21	1600	266	130		12"	12"	1'9" Pond Temp
22	1630	268	130		12"	12"	1 1/2" Unit GATE
23	1700	268	130		12"	12"	2 1/2'
24	1815	269	126		13"	13"	Increased flow to 10"
25	1915	270	125		14"	14"	10"
26	2015	270	125		14"	14"	2'
27	7-27-76						
28	0700	272	123		13"	13"	77 2'10" 40"
29	2200	272	123		13"	13"	Flow to #2 with 30" backflow there
30	7-28-76						
31	2000	272	123		13" H ₂ O	13" H ₂ O	87
32	7-29-76						
33	0700	273	123		11"	11"	87
34	7-30-76						
35	0700	273	123		13"	13"	80
36	131-76						
37	0830				13"	13"	OPEN FLOW TO #1 (10") at 0845
38	0848	273	117		14"	14"	
39	1000	273	117		13"	13"	74
40	2730	273	117		14"	14"	74
41	7-31-76						
42	0700	273	117		13" H ₂ O	13" H ₂ O	72
43	1500	273	117		14"	14"	73

#1 Flow

BACK PRESS

Time	Temp	Press (WH)	Flow 1 (north)	Flow 2 (South)	Orifice ΔP	Comments
7-17-76						
1345	278	112	52	115		76
1845	272	112	58	117		76
7-18-76						
0730	272	111	55	115		76
1230	273	111 111	53	117		76
1930	273	111	53	118		75
7-19-76						
0730	272	111	58	116		76
1600	273	110.5	56	114		75
7-20-76						
0730	272	110	57	117		74
1030	270	110	58	118		76
7-21-76						
0745	272	111	57	115		74
1740	272	109	56	115		77
(Flow RETURNED TO #1 PIT)						
7/22/76						
0705	272	110	61	116		77
1017	—	110	61	110	Total-ΔP=14in	
1020		Shut in				

FLOW HAD JUST BEEN SWITCHED FROM #1 REVERSE PIT TO TRAILER LINE