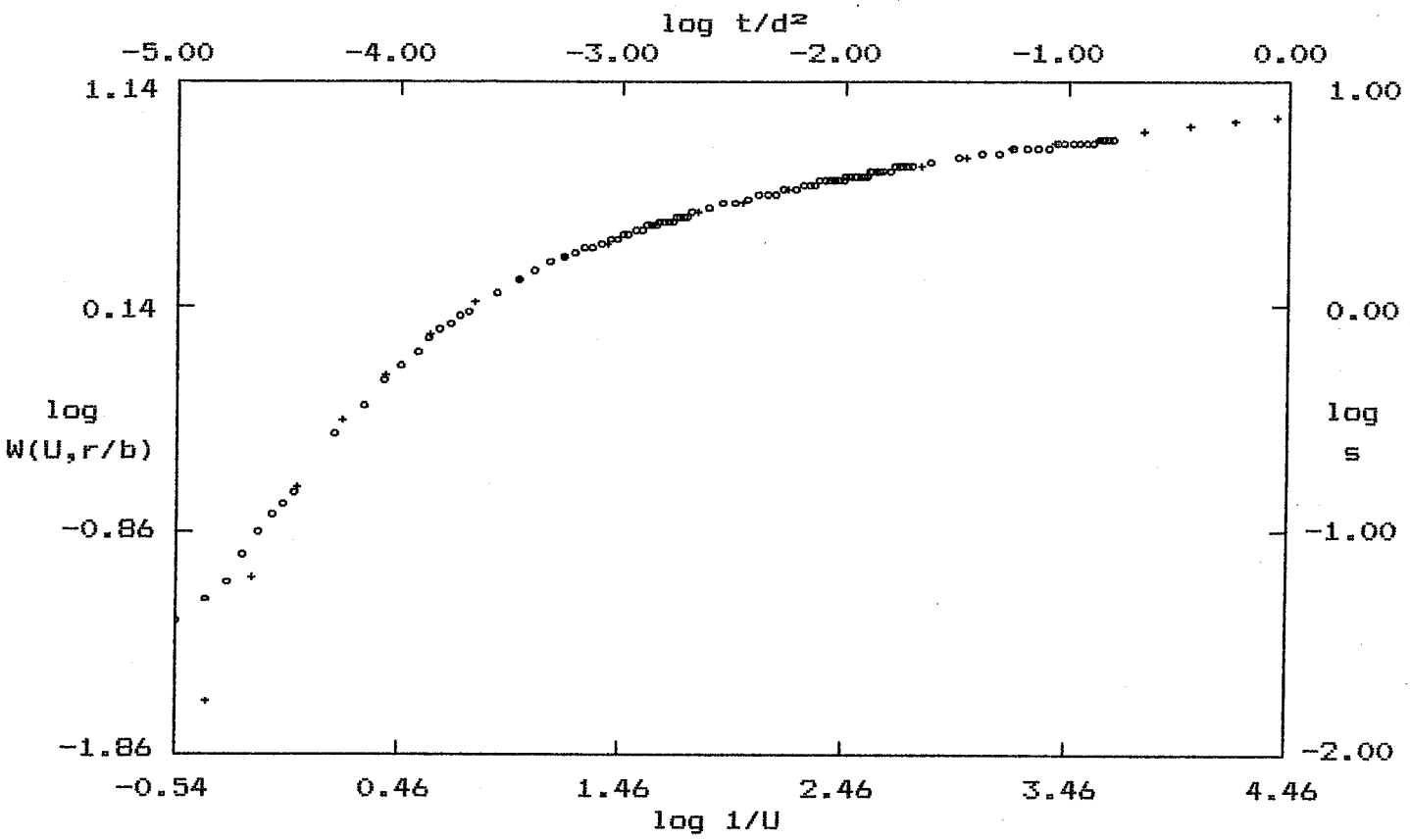
PUMP TEST DATA



o - Data

\+ - Type Curve
Confined Leaky: r/B = Theis

SOLUTION

Transmissivity = 1.322E+00 ft.²/min. = 14,239 gpd/ft
Storativity = 1.833E-04

RTA 9I

OPTIMIZATION BY LEVENBERG-MARQUARDT MINIMIZATION ALGORITHM

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
1	.133E-01	1904.	.1833E-03	.1000E-04
3	.131E-02	1881.	.1569E-03	.1426E-03
5	.953E-03	1920.	.1483E-03	.1020E-03
7	.871E-03	1929.	.1451E-03	.9315E-04
9	.863E-03	1934.	.1437E-03	.8885E-04
11	.862E-03	1935.	.1434E-03	.8782E-04
13	.862E-03	1935.	.1433E-03	.8748E-04

TERMINATION DUE TO PARAMETER CONVERGENCE

FINAL RESULTS

ITER	FUNCTION	TRANSMISS	STORTIVTY	SPEC_LEAK
17	.862E-03	1935.	.1433E-03	.8748E-04

FRACTIONAL COMPONENTS OF FUNCTION VALUE
WELL # 1
1.000

DO YOU WANT A SENSITIVITY ANALYSIS ? (Y/N)

BTA 97

$T = 14,474$ gpd/ft

$S = 1.433 \times 10^{-4}$

$K'/b' = 8.748 \times 10^{-4}$ day^{-1}

SENSITIVITY ANALYSIS

TWO STANDARD DEVIATION CONFIDENCE INTERVALS

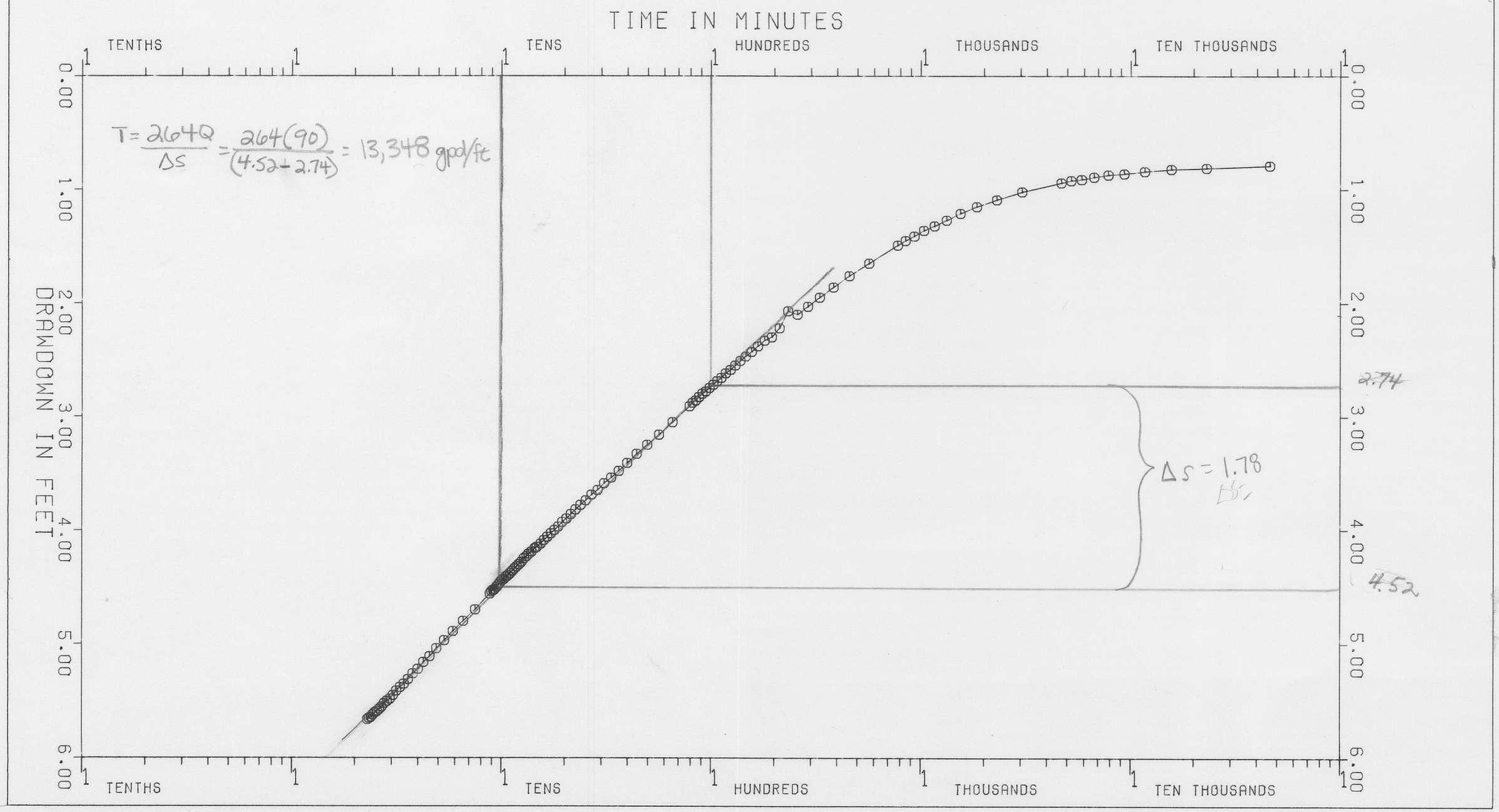
PARAMETER	VALUE	LOWER LIMIT	UPPER LIMIT
TRANSMISS	1935.	1924.	1945.
STORTIVTY	.1433E-03	0.0000	0.5121E-03
SPEC_LEAK	.8740E-04	0.0000	0.2574E-02

TO CONTINUE ENTER "RETURN"

RTA 9I RECOVERY

OBSERVATION WELL: OBS 1

R= 70.5 Q= 90



$L_{u,v} = 1$

$1/u = 1$

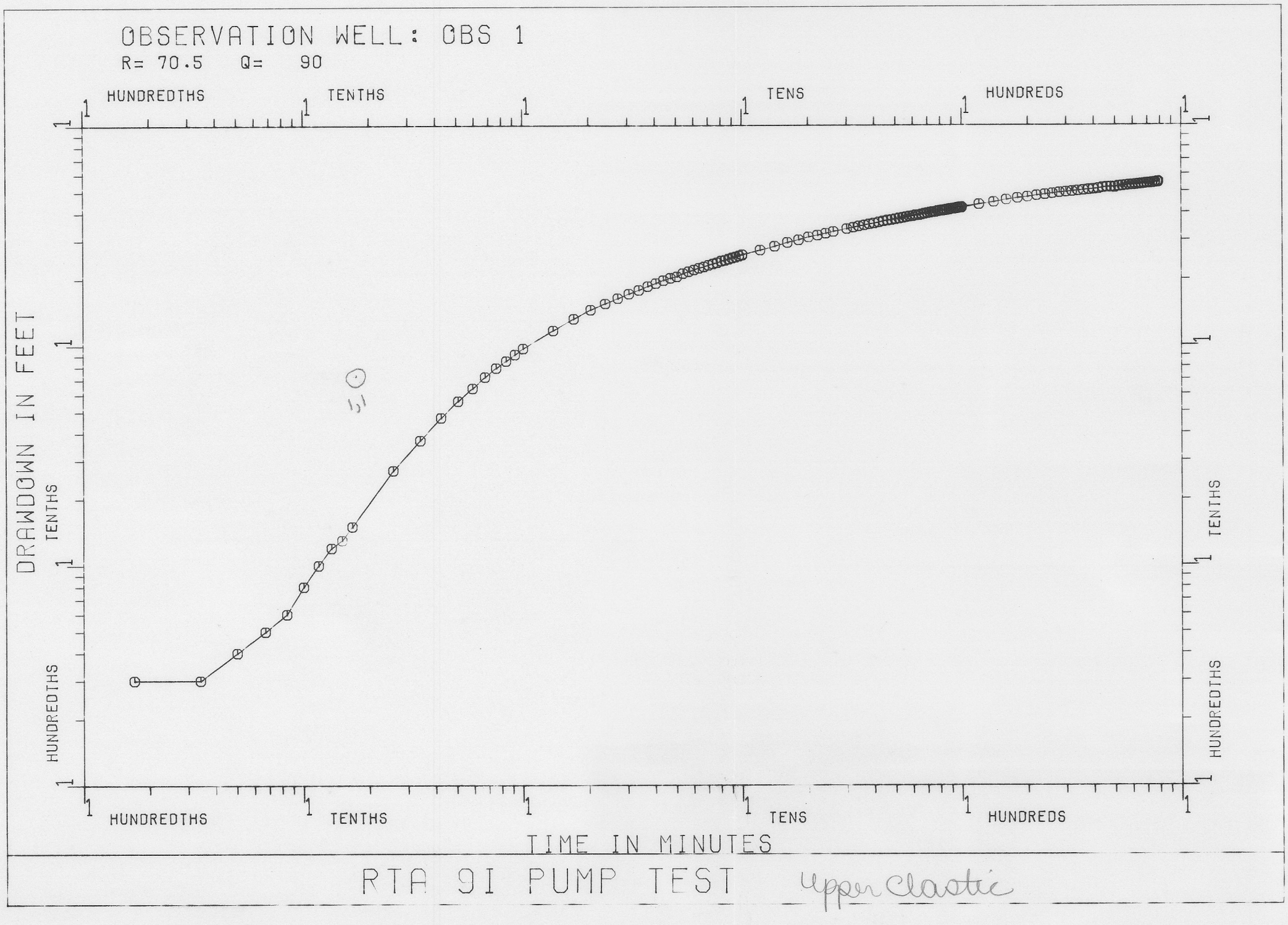
$t = \frac{.175}{1440}$

$S = .73$

$$T = \frac{1440\, Q\, L_{u,v}}{4\pi s\,(7.48)} = \frac{1440\,(90)\,(1)}{4\pi\,(.73)(7.48)} = 1888.7 \text{ ft}^2/\text{day}$$

$$= 14{,}128 \text{ gpd/ft}$$

$$S = \frac{4T\, t/r^2}{1/u} = \frac{4(1888.7)\,\frac{.175/1440}{70.5^2}}{1} = 1.82 \times 10^{-4}$$



RTA 91 PUMP TEST Upper Clastic

HENDRY CO. RTA-91
Run 1
05/09/84

SE200A DATA
constant rate test

TRANSDUCER TABLE

Input 1: OB #1
Transducer s/n: 38
Scale factor: 9.96
Initial level: 7.27 feet

FAST DATA

Input 2: OB #2
Transducer s/n: 171
Scale factor: 49.38
Initial level: 6.72 feet

Input 3: PUMPED WELL
Transducer s/n: 113
Scale factor: 9.96
Initial level: 5.67 feet

PUMP SCHEDULE

Drawdown for 1440 min
Pump at 95 GPM

Recovery for 600 min

SAMPLING SCHEDULE

0-10	sec	@	1	sec
10-60	sec	@	5	sec
1-10	min	@	20	sec
10-100	min	@	2	min
100-1000	min	@	20	min
1000-10000	min	@	60	min
10000-99999	min	@	200	min

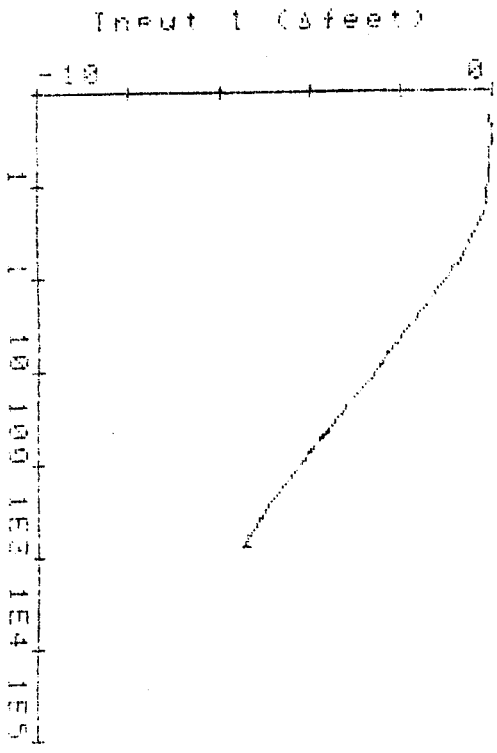
DRAWDOWN REPORT

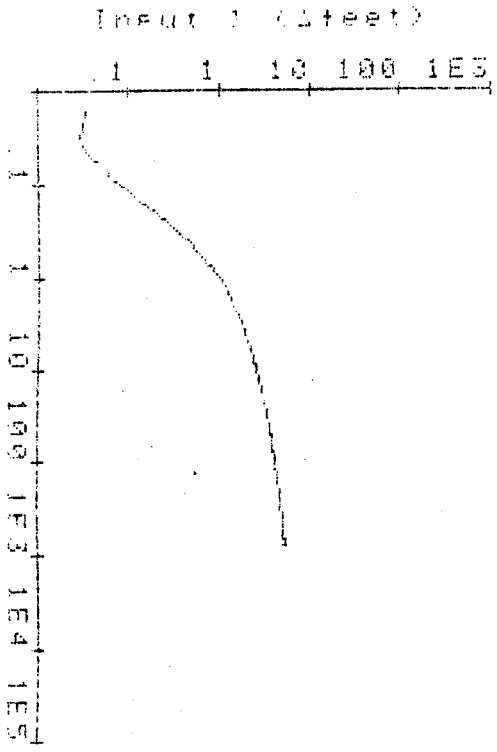
Started at 0913
Lasted 784.73 min

Input 1 (feet):

Time	ET (min)	level	Δlevel
0913	0.000	7.27	0.00
0913	0.017	7.30	-0.03
0913	0.034	7.30	-0.03
0913	0.050	7.31	-0.04
0914	0.067	7.32	-0.05
0914	0.084	7.33	-0.06
0914	0.100	7.35	-0.08
0914	0.117	7.37	-0.10
0914	0.134	7.39	-0.12
0914	0.150	7.41	-0.13
0914	0.167	7.42	-0.15
0914	0.257	7.54	-0.27
0914	0.341	7.64	-0.37
0914	0.424	7.74	-0.47
0914	0.507	7.83	-0.56
0914	0.591	7.91	-0.64
0914	0.674	7.99	-0.72
0914	0.757	8.06	-0.79
0914	0.841	8.12	-0.85
0914	0.924	8.18	-0.91
0914	1.007	8.24	-0.97
0915	1.381	8.44	-1.17
0915	1.714	8.59	-1.32
0915	2.047	8.72	-1.45
0916	2.381	8.82	-1.55
0916	2.714	8.91	-1.64
0916	3.047	8.99	-1.72
0917	3.381	9.06	-1.79
0917	3.714	9.13	-1.86
0917	4.047	9.19	-1.92
0918	4.381	9.25	-1.98
0918	4.714	9.30	-2.03
0918	5.047	9.35	-2.08
0919	5.381	9.40	-2.13
0919	5.714	9.44	-2.17
0919	6.047	9.48	-2.21
0920	6.381	9.52	-2.25
0920	6.714	9.55	-2.28
0920	7.047	9.59	-2.32
0921	7.381	9.62	-2.35
0921	7.714	9.65	-2.38
0921	8.047	9.69	-2.42
0922	8.381	9.71	-2.44
0922	8.714	9.74	-2.47
0922	9.047	9.77	-2.50
0923	9.381	9.79	-2.52
0923	9.714	9.82	-2.55
0923	10.047	9.85	-2.58
0926	12.135	9.99	-2.71
0928	14.135	10.09	-2.82
0930	16.135	10.20	-2.93
0932	18.135	10.28	-3.01
0934	20.135	10.37	-3.10
0936	22.135	10.43	-3.16
0938	24.135	10.49	-3.22
0940	26.118	10.55	-3.28
0942	28.118	10.60	-3.33
0944	30.063	10.65	-3.38
0946	32.208	10.70	-3.43
0948	34.065	10.74	-3.47
0950	36.098	10.78	-3.51
0952	38.098	10.82	-3.55
0954	40.098	10.85	-3.58
0956	42.098	10.89	-3.62
0958	44.098	10.93	-3.66
1000	46.098	10.96	-3.69
1002	48.098	10.98	-3.71
1004	50.098	11.01	-3.74
1006	52.098	11.04	-3.77
1008	54.120	11.06	-3.79
1010	56.062	11.09	-3.82
1012	58.120	11.11	-3.84
1014	60.120	11.13	-3.86
1016	62.113	11.16	-3.89
1018	64.113	11.18	-3.91
1020	66.113	11.21	-3.93
1022	68.113	11.23	-3.96
1024	70.113	11.25	-3.98
1026	72.113	11.27	-4.00
1028	74.113	11.29	-4.02
1030	76.113	11.31	-4.03
1032	78.408	11.33	-4.06
1034	80.345	11.35	-4.08
1036	82.082	11.36	-4.09
1038	84.082	11.37	-4.10
1040	86.082	11.39	-4.12
1042	88.082	11.41	-4.14
1044	90.082	11.42	-4.15
1046	92.082	11.44	-4.17
1048	94.082	11.45	-4.18
1050	96.082	11.47	-4.20
1052	98.082	11.49	-4.22
1054	100.080	11.50	-4.23
1114	120.250	11.63	-4.36
1134	140.250	11.73	-4.46
1154	160.230	11.84	-4.57
1214	180.220	11.92	-4.65
1234	200.220	11.98	-4.71
1254	220.220	12.05	-4.78
1314	240.700	12.10	-4.83
1334	260.150	12.15	-4.88
1354	280.150	12.20	-4.93
1414	300.150	12.23	-4.96
1434	320.230	12.26	-4.99
1454	340.230	12.29	-5.02
1514	360.300	12.32	-5.05
1534	380.200	12.35	-5.08
1554	400.200	12.37	-5.10
1614	420.450	12.40	-5.13
1634	440.220	12.45	-5.18
1654	460.150	12.48	-5.21
1714	480.150	12.48	-5.21
1734	500.150	12.47	-5.20
1754	520.150	12.53	-5.26
1814	540.150	12.55	-5.28
1834	560.150	12.57	-5.30
1854	580.150	12.59	-5.32
1914	600.200	12.60	-5.33
1934	620.200	12.62	-5.35
1954	640.200	12.64	-5.37
2014	660.200	12.65	-5.38
2034	680.200	12.68	-5.40
2054	700.200	12.69	-5.42
2114	720.200	12.70	-5.43
2134	740.200	12.72	-5.45
2154	760.200	12.74	-5.47
2214	780.200	12.75	-5.48
2218	784.730	12.57	-5.30

Average level: 12.17



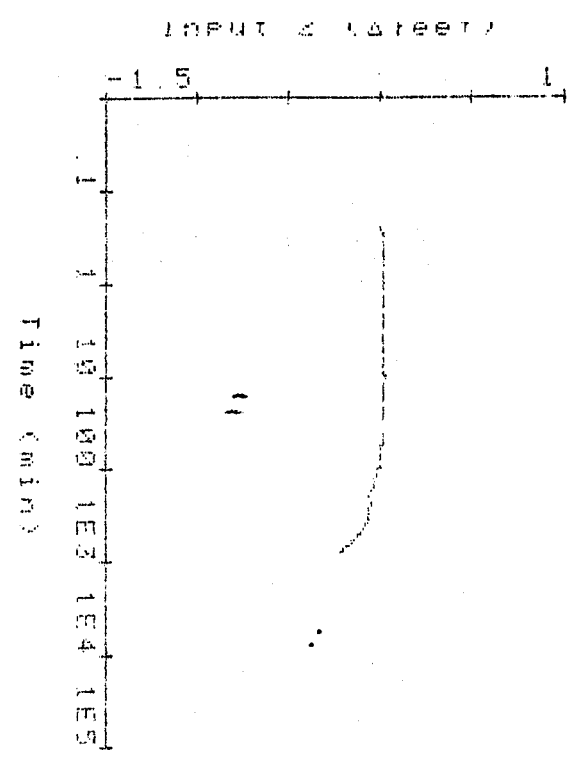


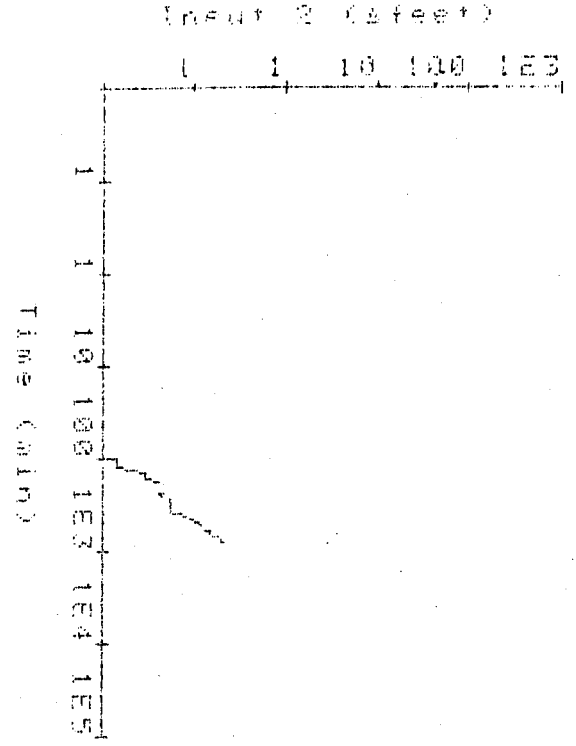
Input 2 (feet)

Time	ET (min)	level	Δlevel
0913	0.000	6.72	0.00
0914	0.257	6.72	0.00
0914	0.341	6.71	0.01
0914	0.424	6.71	0.01
0914	0.507	6.71	0.01
0914	0.591	6.71	0.01
0914	0.674	6.71	0.01
0914	0.757	6.71	0.01
0914	0.841	6.71	0.01
0914	0.924	6.71	0.01
0914	1.007	6.71	0.01
0915	1.381	6.71	0.01
0915	1.714	6.71	0.01
0915	2.047	6.71	0.01
0916	2.381	6.71	0.01
0916	2.714	6.71	0.01
0916	3.047	6.71	0.01
0917	3.381	6.71	0.01
0917	3.714	6.71	0.01
0917	4.047	6.71	0.01
0918	4.381	6.71	0.01
0918	4.714	6.71	0.01
0918	5.047	6.71	0.01
0919	5.381	6.71	0.01
0919	5.714	6.71	0.01
0919	6.047	6.71	0.01
0920	6.381	6.71	0.01
0920	6.714	6.71	0.01
0920	7.047	6.71	0.01
0921	7.381	6.71	0.01
0921	7.714	6.71	0.01
0921	8.047	6.71	0.01
0922	8.381	6.71	0.01
0922	8.714	6.71	0.01
0922	9.047	6.71	0.01
0923	9.381	6.71	0.01
0923	9.714	6.71	0.01
0923	10.047	6.69	0.03
0926	12.135	6.71	0.01
0928	14.135	6.71	0.01
0930	16.135	6.71	0.01
0932	18.135	6.71	0.01
0934	20.135	6.71	0.01
0936	22.135	6.71	0.01
0938	24.135	6.71	0.01
0940	26.118	6.71	0.01
0942	28.397	6.71	0.01
0944	30.063	6.71	0.01
0946	32.208	6.71	0.01
0948	34.065	6.71	0.01
0950	36.098	6.71	0.01
0952	38.098	6.71	0.01
0954	40.098	6.71	0.01
0956	42.098	6.71	0.01
0958	44.098	6.71	0.01
1000	46.098	6.71	0.01
1002	48.098	6.71	0.01
1004	50.098	6.71	0.01
1006	52.098	6.71	0.01
1008	54.120	6.71	0.01
1010	56.062	6.72	0.00
1012	58.120	6.71	0.01
1014	60.120	6.72	0.00
1016	62.113	6.72	0.00
1018	64.113	6.72	0.00
1020	66.113	6.72	0.00
1022	68.113	6.72	0.00
1024	70.113	6.72	0.00

1026	74.113	6.72	0.00
1030	76.113	6.72	0.00
1032	78.408	6.72	0.00
1034	80.345	6.72	0.00
1036	82.082	6.72	0.00
1038	84.082	6.72	0.00
1040	86.082	6.72	0.00
1042	88.082	6.72	0.00
1044	90.082	6.72	0.00
1046	92.082	6.72	0.00
1048	94.062	6.72	0.00
1050	96.082	6.72	0.00
1052	98.082	6.72	0.00
1054	100.080	6.73	-0.01
1114	120.250	6.73	-0.01
1134	140.250	6.75	-0.03
1154	160.230	6.75	-0.03
1214	180.220	6.76	-0.04
1234	200.220	6.78	-0.06
1254	220.220	6.78	-0.06
1314	240.700	6.76	-0.04
1334	260.150	6.76	-0.04
1354	280.150	6.78	-0.06
1414	300.150	6.78	-0.06
1434	320.230	6.78	-0.06
1454	340.230	6.78	-0.06
1514	360.300	6.78	-0.06
1534	380.200	6.78	-0.06
1554	400.200	6.79	-0.07
1614	420.450	6.81	-0.09
1634	440.220	6.82	-0.10
1654	460.150	6.82	-0.10
1714	480.150	6.82	-0.10
1734	500.150	6.83	-0.11
1754	520.150	6.83	-0.11
1814	540.150	6.85	-0.13
1834	560.150	6.85	-0.13
1854	580.150	6.85	-0.13
1914	600.200	6.86	-0.14
1934	620.200	6.88	-0.16
1954	640.200	6.88	-0.16
2014	660.200	6.88	-0.16
2034	680.200	6.89	-0.17
2054	700.200	6.91	-0.19
2114	720.200	6.91	-0.19
2134	740.200	6.92	-0.20
2154	760.200	6.92	-0.20
2214	780.200	6.92	-0.20
2218	784.730	6.93	-0.21

Average level: 6.81





Input 3 (feet):

Time	ET (min)	level	Δlevel
0913	0.000	6.67	0.00
0914	0.257	14.75	-8.08
0914	0.341	14.74	-8.07
0914	0.424	14.74	-8.07
0914	0.507	14.75	-8.08
0914	0.591	14.75	-8.08
0914	0.674	14.75	-8.08
0914	0.757	14.75	-8.08
0914	0.841	14.75	-8.08
0914	0.924	14.75	-8.08
0914	1.007	14.75	-8.08
0915	1.381	14.75	-8.08
0915	1.714	14.75	-8.08
0915	2.047	14.75	-8.08
0916	2.381	14.75	-8.08
0916	2.714	14.75	-8.08
0916	3.047	14.75	-8.08
0917	3.381	14.75	-8.08
0917	3.714	14.75	-8.08
0917	4.047	14.75	-8.08
0918	4.381	14.75	-8.08
0918	4.714	14.75	-8.08
0918	5.047	14.75	-8.08
0919	5.381	14.75	-8.08
0919	5.714	14.75	-8.08
0919	6.047	14.75	-8.08
0920	6.381	14.75	-8.08
0920	6.714	14.75	-8.08
0920	7.047	14.75	-8.08
0921	7.381	14.75	-8.08
0921	7.714	14.75	-8.08
0921	8.047	14.75	-8.08
0922	8.381	14.75	-8.08
0922	8.714	14.75	-8.08
0922	9.047	14.74	-8.07
0923	9.381	14.74	-8.07
0923	9.714	14.74	-8.07
0923	10.047	14.74	-8.07
0926	12.135	14.74	-8.07
0928	14.135	14.74	-8.07
0930	16.135	14.73	-8.06
0932	18.135	14.73	-8.06
0934	20.135	14.73	-8.06
0936	22.135	14.73	-8.06
0938	24.135	14.73	-8.06
0940	26.116	14.73	-8.06
0942	28.397	14.73	-8.06
0944	30.063	14.73	-8.06
0946	32.208	14.72	-8.05
0948	34.065	14.72	-8.05
0950	36.098	14.74	-8.07
0952	38.098	14.74	-8.07
0954	40.098	14.74	-8.07
0956	42.098	14.75	-8.08
0958	44.098	14.75	-8.08
1000	46.098	14.75	-8.08
1002	48.098	8.05	-1.36
1004	50.098	8.08	-1.41
1006	52.098	8.12	-1.45
1008	54.120	8.13	-1.46
1010	56.062	8.16	-1.49
1012	58.120	8.18	-1.51
1014	60.120	8.21	-1.54
1016	62.113	8.23	-1.56
1018	64.113	8.25	-1.58
1020	66.113	8.29	-1.61
1022	68.113	8.29	-1.62
1024	70.113	8.31	-1.64
1026	72.113	8.32	-1.65
1028	74.113	8.33	-1.66
1030	76.113	8.35	-1.68
1032	78.408	8.38	-1.71
1034	80.245	8.40	-1.73
1036	82.082	8.41	-1.74
1038	84.082	8.43	-1.76
1040	86.082	8.44	-1.77
1042	88.082	8.47	-1.79
1044	90.082	8.48	-1.81
1046	92.082	8.49	-1.82
1048	94.082	8.50	-1.83
1050	96.082	8.52	-1.85
1052	98.082	8.54	-1.87
1054	100.000	8.55	-1.88
1114	120.250	8.68	-2.01
1134	140.250	8.78	-2.11
1154	160.230	8.85	-2.18
1214	180.220	8.91	-2.24
1234	200.220	8.99	-2.32
1254	220.220	9.05	-2.38
1314	240.700	9.07	-2.40
1334	260.150	9.11	-2.44
1354	280.150	9.16	-2.49
1414	300.150	9.18	-2.51
1434	320.230	9.18	-2.51
1454	340.230	9.19	-2.52
1514	360.300	9.22	-2.55
1534	380.200	9.25	-2.56
1554	400.200	9.27	-2.58
1614	420.450	9.30	-2.61
1634	440.220	9.34	-2.65
1654	460.150	9.37	-2.70
1714	480.150	9.37	-2.70
1734	500.150	9.33	-2.66
1754	520.150	9.38	-2.71
1814	540.150	9.40	-2.73
1834	560.150	9.42	-2.75
1854	580.150	9.46	-2.79
1914	600.200	9.45	-2.78
1934	620.200	9.49	-2.82
1954	640.200	9.51	-2.84
2014	660.200	9.53	-2.86
2034	680.200	9.54	-2.87
2054	700.200	9.56	-2.89
2114	720.200	9.58	-2.91
2134	740.200	9.59	-2.92
2154	760.200	9.61	-2.94
2214	780.200	9.63	-2.96
2216	784.730	2.06	4.62

Average level: 9.50

RECOVERY REPORT

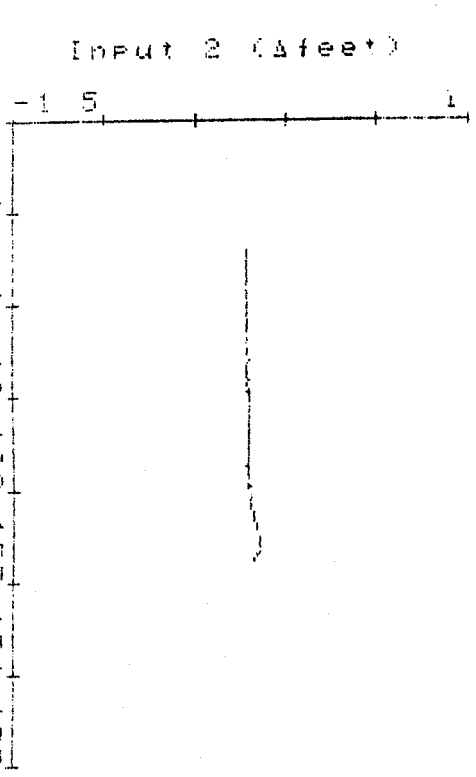
Started at 2218
Lasted 600.13 min

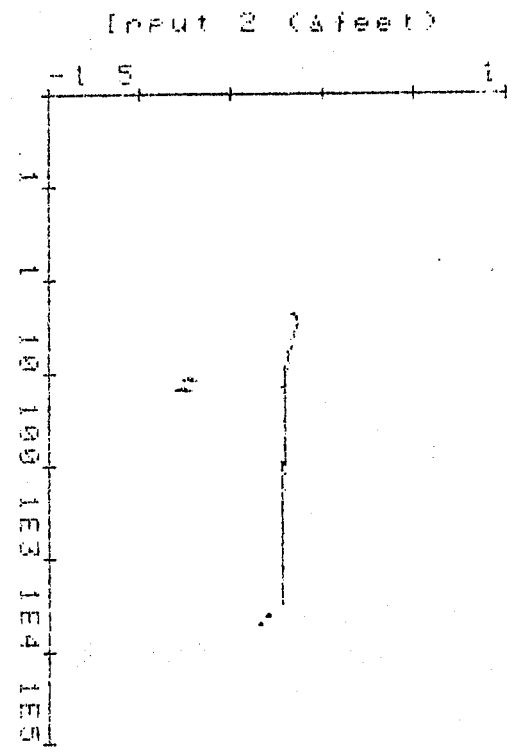
Time	ET (min)	level	Δlevel
2218	0.017	12.48	-5.21
2218	0.034	12.46	-5.19
2218	0.050	12.45	-5.18
2218	0.067	12.43	-5.16
2218	0.084	12.41	-5.14
2218	0.100	12.40	-5.13
2218	0.117	12.38	-5.11
2218	0.134	12.36	-5.09
2218	0.150	12.35	-5.08
2218	0.167	12.33	-5.06
2218	0.257	12.25	-4.98
2219	0.340	12.18	-4.91
2219	0.424	12.12	-4.85
2219	0.507	12.06	-4.79
2219	0.590	12.00	-4.73
2219	0.674	11.95	-4.68
2219	0.757	11.91	-4.64
2219	0.840	11.86	-4.59
2219	0.924	11.82	-4.55
2219	1.007	11.78	-4.51
2220	1.380	11.62	-4.35
2220	1.713	11.51	-4.24
2220	2.046	11.41	-4.14
2221	2.380	11.32	-4.05
2221	2.713	11.24	-3.97
2221	3.046	11.17	-3.90
2222	3.380	11.10	-3.83
2222	3.713	11.05	-3.78
2222	4.046	10.97	-3.70
2223	4.380	10.94	-3.67
2223	4.713	10.89	-3.62
2223	5.046	10.84	-3.57
2224	5.380	10.80	-3.53
2224	5.713	10.76	-3.49
2224	6.046	10.72	-3.45
2225	6.380	10.69	-3.41
2225	6.713	10.65	-3.38
2226	7.046	10.61	-3.34
2226	7.380	10.58	-3.31
2226	7.713	10.55	-3.28
2227	8.047	10.52	-3.25
2227	8.380	10.49	-3.22
2227	8.713	10.48	-3.20
2228	9.047	10.44	-3.17
2228	9.380	10.41	-3.14
2228	9.713	10.39	-3.12
2230	10.046	10.36	-3.09
2232	12.146	10.22	-2.95
2234	14.146	10.11	-2.84
2236	16.146	10.02	-2.75
2238	18.147	9.94	-2.67
2240	20.152	9.86	-2.59
2242	22.162	9.79	-2.52
	24.152	9.73	-2.46

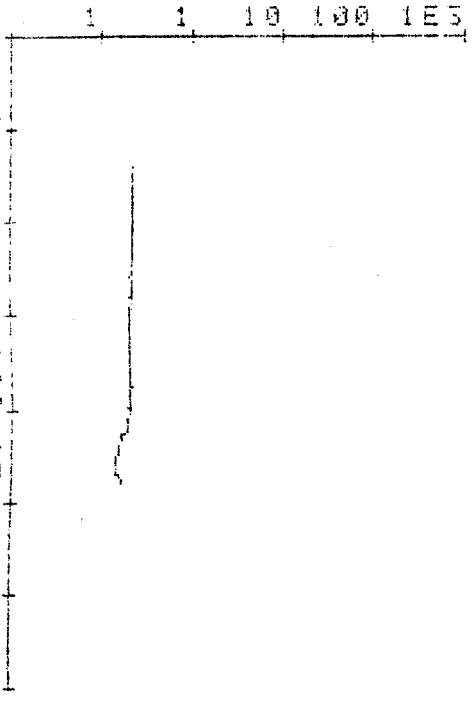
0246	28.162	9.62	-2.35
0248	30.162	9.58	-2.31
0250	32.162	9.53	-2.26
0252	34.162	9.49	-2.22
0254	36.162	9.45	-2.18
0256	38.162	9.41	-2.14
0258	40.162	9.37	-2.10
0300	42.162	9.34	-2.07
0302	44.162	9.30	-2.03
0304	46.162	9.27	-2.00
0306	48.162	9.24	-1.97
0308	50.162	9.21	-1.94
0310	52.162	9.18	-1.91
0312	54.162	9.15	-1.88
0313	56.768	9.12	-1.85
0315	58.133	9.11	-1.84
0319	60.403	9.08	-1.81
0321	62.502	9.06	-1.79
0322	64.080	9.04	-1.77
0324	66.080	9.02	-1.75
0326	68.080	8.99	-1.72
0328	70.080	8.97	-1.70
0330	72.080	8.95	-1.68
0332	74.080	8.93	-1.66
0334	76.080	8.91	-1.64
0336	78.080	8.89	-1.62
0338	80.080	8.87	-1.60
0340	82.080	8.86	-1.59
0342	84.080	8.84	-1.57
0344	86.080	8.83	-1.56
0346	88.080	8.81	-1.54
0348	90.080	8.79	-1.52
0350	92.080	8.77	-1.50
0352	94.080	8.75	-1.48
0354	96.080	8.74	-1.47
0356	98.080	8.73	-1.46
0358	100.080	8.71	-1.44
0018	120.250	8.58	-1.31
0038	140.250	8.47	-1.20
0058	160.250	8.38	-1.11
0118	180.250	8.30	-1.03
0138	200.250	8.23	-0.96
0158	220.250	8.16	-0.89
0218	240.250	8.11	-0.84
0238	260.250	8.05	-0.78
0258	280.250	8.01	-0.74
0318	300.250	7.96	-0.69
0338	320.250	7.92	-0.65
0358	340.250	7.89	-0.62
0418	360.250	7.86	-0.59
0438	380.250	7.82	-0.55
0458	400.250	7.79	-0.52
0518	420.250	7.77	-0.50
0538	440.250	7.75	-0.48
0558	460.250	7.72	-0.45
0618	480.250	7.70	-0.43
0638	500.250	7.68	-0.41
0658	520.250	7.67	-0.40
0718	540.250	7.65	-0.38
0738	560.250	7.63	-0.36
0758	580.250	7.62	-0.35
0818	600.130	7.61	-0.34

Input 2 (Feet):

Time	El (min)	Level	dLevel
0016	0.257	6.93	-0.21
0033	0.340	6.93	-0.21
0050	0.424	6.93	-0.21
0108	0.507	6.93	-0.21
0125	0.590	6.93	-0.21
0143	0.674	6.93	-0.21
0200	0.757	6.93	-0.21
0218	0.840	6.93	-0.21
0235	0.924	6.93	-0.21
0253	1.007	6.93	-0.21
0310	1.380	6.93	-0.21
0328	1.713	6.93	-0.21
0345	2.046	6.93	-0.21
0403	2.380	6.93	-0.21
0420	2.713	6.93	-0.21
0438	3.046	6.93	-0.21
0455	3.380	6.93	-0.21
0513	3.713	6.93	-0.21
0530	4.046	6.92	-0.20
0548	4.380	6.93	-0.21
0605	4.713	6.93	-0.21
0623	5.046	6.93	-0.21
0640	5.380	6.93	-0.21
0658	5.713	6.93	-0.21
0715	6.046	6.93	-0.21
0733	6.380	6.92	-0.20
0750	6.713	6.93	-0.21
0808	7.046	6.93	-0.21
0825	7.380	6.93	-0.21
0843	7.713	6.93	-0.21
0900	8.047	6.92	-0.20
0918	8.380	6.93	-0.21
0935	8.713	6.92	-0.20
0953	9.047	6.92	-0.20
1010	9.380	6.92	-0.20
1028	9.713	6.92	-0.20
1045	10.046	6.92	-0.20
1103	10.380	6.92	-0.20
1120	10.713	6.92	-0.20
1138	11.046	6.92	-0.20
1155	11.380	6.92	-0.20
1213	11.713	6.92	-0.20
1230	12.146	6.92	-0.20
1248	12.146	6.92	-0.20
1305	12.146	6.92	-0.20
1323	12.147	6.92	-0.20
1340	12.162	6.92	-0.20
1358	12.162	6.92	-0.20
1415	12.162	6.92	-0.20
1433	12.162	6.92	-0.20
1450	12.162	6.92	-0.20
1508	12.162	6.92	-0.20
1525	12.162	6.92	-0.20
1543	12.162	6.92	-0.20
1600	12.162	6.92	-0.20
1618	12.162	6.92	-0.20
1635	12.162	6.92	-0.20
1653	12.162	6.92	-0.20
1710	12.162	6.92	-0.20
1728	12.162	6.92	-0.20
1745	12.162	6.92	-0.20
1803	12.162	6.92	-0.20
1820	12.162	6.92	-0.20
1838	12.162	6.92	-0.20
1855	12.162	6.92	-0.20
1913	12.162	6.92	-0.20
1930	12.162	6.92	-0.20
1948	12.162	6.92	-0.20
2005	12.162	6.92	-0.20
2023	12.162	6.92	-0.20
2040	12.162	6.92	-0.20
2058	12.162	6.92	-0.20
2115	12.162	6.92	-0.20
2133	12.162	6.92	-0.20
2150	12.162	6.92	-0.20
2208	12.162	6.92	-0.20
2225	12.162	6.92	-0.20
2243	12.162	6.92	-0.20
2300	12.162	6.92	-0.20
2318	12.162	6.92	-0.20
2335	12.162	6.92	-0.20
2353	12.162	6.92	-0.20
0010	12.162	6.92	-0.20
0028	12.162	6.92	-0.20
0045	12.162	6.92	-0.20
0103	12.162	6.92	-0.20
0120	12.162	6.92	-0.20
0138	12.162	6.92	-0.20
0155	12.162	6.92	-0.20
0213	12.162	6.92	-0.20
0230	12.146	6.92	-0.20
0248	14.146	6.92	-0.20
0305	16.146	6.92	-0.20
0323	18.147	6.92	-0.20
0340	20.162	6.92	-0.20
0358	22.162	6.92	-0.20
0415	24.162	6.92	-0.20
0433	26.162	6.92	-0.20
0450	28.162	6.92	-0.20
0508	30.162	6.92	-0.20
0525	32.162	6.92	-0.20
0543	34.162	6.92	-0.20
0600	36.162	6.92	-0.20
0618	38.162	6.92	-0.20
0635	40.162	6.92	-0.20
0653	42.162	6.92	-0.20
0710	44.162	6.92	-0.20
0728	46.162	6.92	-0.20
0745	48.162	6.92	-0.20
0803	50.162	6.92	-0.20
0820	52.162	6.92	-0.20
0838	54.162	6.92	-0.20
0855	56.758	6.93	-0.21
0913	58.133	6.92	-0.20
0930	60.403	6.92	-0.20
0948	62.502	6.92	-0.20
1005	64.080	6.92	-0.20
1023	66.080	6.92	-0.20
1040	68.080	6.92	-0.20
1058	70.080	6.92	-0.20
1115	72.080	6.92	-0.20
1133	74.080	6.92	-0.20
1150	76.080	6.92	-0.20
1208	78.080	6.92	-0.20
1225	80.080	6.93	-0.21
1243	82.080	6.92	-0.20
1300	84.080	6.92	-0.20
1318	86.080	6.92	-0.20
1335	88.080	6.92	-0.20
1353	90.080	6.92	-0.20
1410	92.080	6.91	-0.19
1428	94.080	6.92	-0.20
1445	96.080	6.92	-0.20
1503	98.080	6.92	-0.20
1520	100.080	6.92	-0.20
0016	120.250	6.91	-0.19
0033	140.250	6.91	-0.19
0050	160.250	6.91	-0.19
0108	180.250	6.89	-0.17
0125	200.250	6.89	-0.17
0143	220.250	6.89	-0.17
0200	240.250	6.88	-0.16
0218	260.250	6.88	-0.16
0235	280.250	6.88	-0.16
0253	300.250	6.88	-0.16
0310	320.250	6.86	-0.14
0328	340.250	6.86	-0.14
0345	360.250	6.86	-0.14
0403	380.250	6.86	-0.14
0420	400.250	6.86	-0.14
0438	420.250	6.86	-0.14
0455	440.250	6.86	-0.14
0513	460.250	6.86	-0.14
0530	480.250	6.88	-0.16
0548	500.250	6.86	-0.14
0605	520.250	6.88	-0.16
0623	540.250	6.88	-0.16
0640	560.250	6.89	-0.17
0658	580.250	6.89	-0.17
0715	600.130	6.89	-0.17



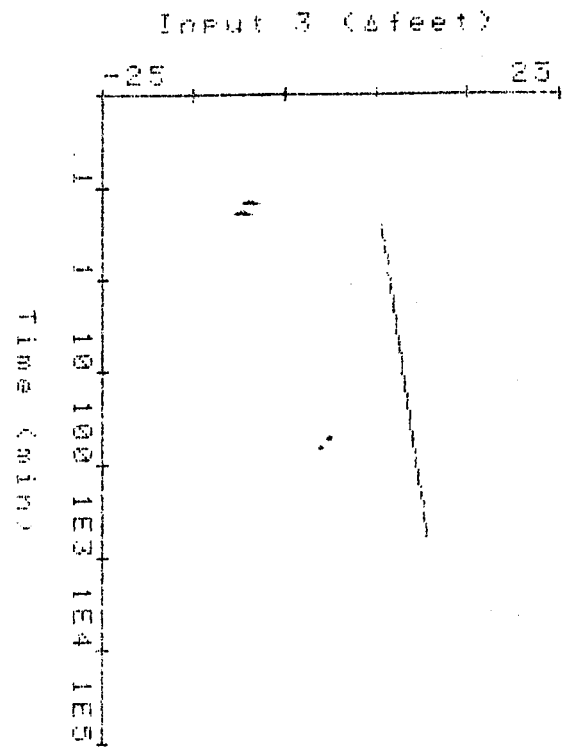


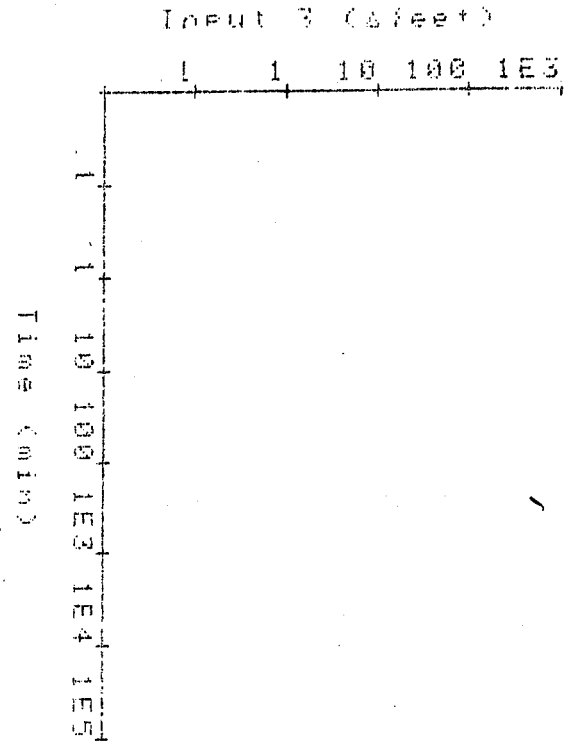


Input 2 (feet)

Time	DT (min)	level	Δlevel
2218	0.257	1.00	5.67
2219	0.340	0.90	5.77
2219	0.424	0.77	5.90
2219	0.507	0.66	6.01
2219	0.590	0.56	6.11
2219	0.674	0.49	6.18
2219	0.757	0.42	6.25
2219	0.840	0.35	6.32
2219	0.924	0.29	6.38
2219	1.007	0.24	6.43
2220	1.380	0.04	6.63
2220	1.713	-0.10	6.77
2220	2.046	-0.21	6.88
2221	2.380	-0.31	6.98
2221	2.713	-0.39	7.06
2221	3.046	-0.47	7.14
2222	3.380	-0.54	7.21
2222	3.713	-0.60	7.27
2222	4.046	-0.66	7.33
2223	4.380	-0.71	7.38
2223	4.713	-0.76	7.43
2223	5.046	-0.81	7.48
2224	5.380	-0.85	7.52
2224	5.713	-0.89	7.56
2224	6.046	-0.93	7.60
2225	6.380	-0.97	7.64
2225	6.713	-1.01	7.68
2225	7.046	-1.04	7.71
2226	7.380	-1.09	7.75
2226	7.713	-1.10	7.77
2226	8.047	-1.14	7.81
2227	8.380	-1.16	7.83
2227	8.713	-1.19	7.86
2227	9.047	-1.22	7.89
2228	9.380	-1.24	7.91
2228	9.713	-1.27	7.94

2230	12.146	-1.43	8.10
2232	14.146	-1.53	8.20
2234	16.146	-1.61	8.28
2236	18.147	-1.69	8.36
2238	20.162	-1.75	8.42
2240	22.162	-1.81	8.48
2242	24.162	-1.85	8.52
2244	26.162	-1.90	8.57
2246	28.162	-1.94	8.51
2248	30.162	-1.97	8.54
2250	32.162	-2.01	8.58
2252	34.162	-2.05	8.62
2254	36.162	-2.10	8.67
2256	38.162	-2.14	8.81
2258	40.162	-2.17	8.84
2300	42.162	-2.21	8.88
2302	44.152	-2.24	8.91
2304	46.162	-2.27	8.94
2306	48.162	-2.30	8.97
2308	50.162	-2.33	9.00
2310	52.162	-2.36	9.03
2312	54.162	-2.39	9.06
2315	56.768	-2.42	9.09
2316	58.133	-2.44	9.11
2319	60.403	-2.47	9.14
2321	62.502	-2.49	9.16
2322	64.080	-2.51	9.18
2324	66.080	-2.53	9.20
2326	68.080	-2.55	9.22
2328	70.080	-2.58	9.25
2330	72.080	-2.60	9.27
2332	74.080	-2.62	9.29
2334	76.080	-2.64	9.31
2336	78.080	-2.66	9.33
2338	80.080	-2.67	9.34
2340	82.080	-2.69	9.36
2342	84.080	-2.71	9.38
2344	86.080	-2.73	9.40
2346	88.080	-2.74	9.41
2348	90.080	-2.76	9.43
2350	92.080	-2.78	9.45
2352	94.080	-2.80	9.47
2354	96.080	-2.81	9.48
2356	98.080	-2.83	9.50
2358	100.080	-2.84	9.51
0018	120.250	-2.97	9.64
0038	140.250	-3.08	9.75
0058	160.250	-3.17	9.84
0118	180.250	-3.26	9.93
0138	200.250	-3.33	10.00
0158	220.250	-3.39	10.06
0218	240.250	-3.45	10.12
0238	260.250	-3.50	10.17
0258	280.250	-3.55	10.22
0318	300.250	-3.59	10.26
0338	320.250	-3.63	10.30
0358	340.250	-3.67	10.34
0418	360.250	-3.70	10.37
0438	380.250	-3.73	10.40
0458	400.250	-3.76	10.43
0518	420.250	-3.79	10.46
0538	440.250	-3.81	10.48
0558	460.250	-3.83	10.50
0618	480.250	-3.85	10.52
0638	500.250	-3.87	10.54
0658	520.250	-3.89	10.56
0718	540.250	-3.90	10.57
0738	560.250	-3.91	10.58
0758	580.250	-3.92	10.59
0818	600.130	-3.93	10.60





If the pump shuts off before I get back in the morning (runs out of gas, or just dies) 8

1. Hold down the [SHIFT] key (lower left hand corner) and at the same time press the key [K5 K4] (dark key; fifth key from left, top row, just below screen) which is right below the word RECVRY on screen.

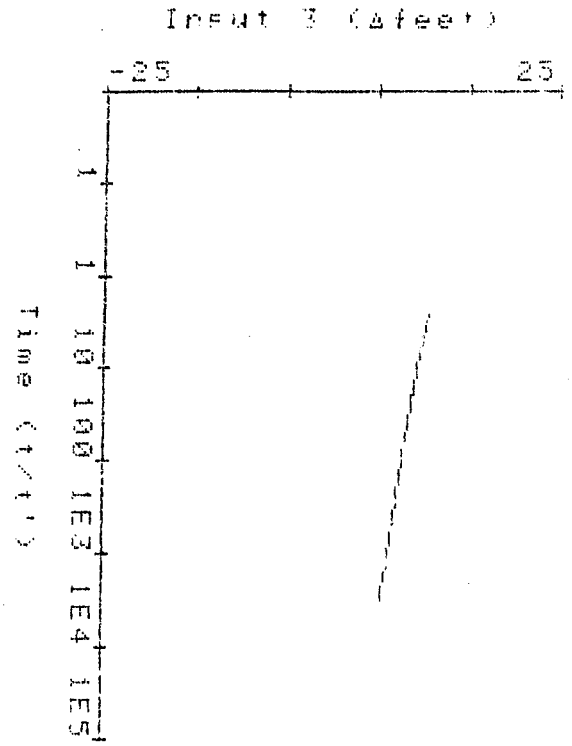
2. The screen will read:

Press START to begin recovery
Press ENABLE to enable starting by remote switch.... etc, etc

START ENABLE quit

3. Hit the dark key directly below the word START immediately - it will begin on its own.

4. Try to get hand readings as accurately as you can - especially the 2" well.

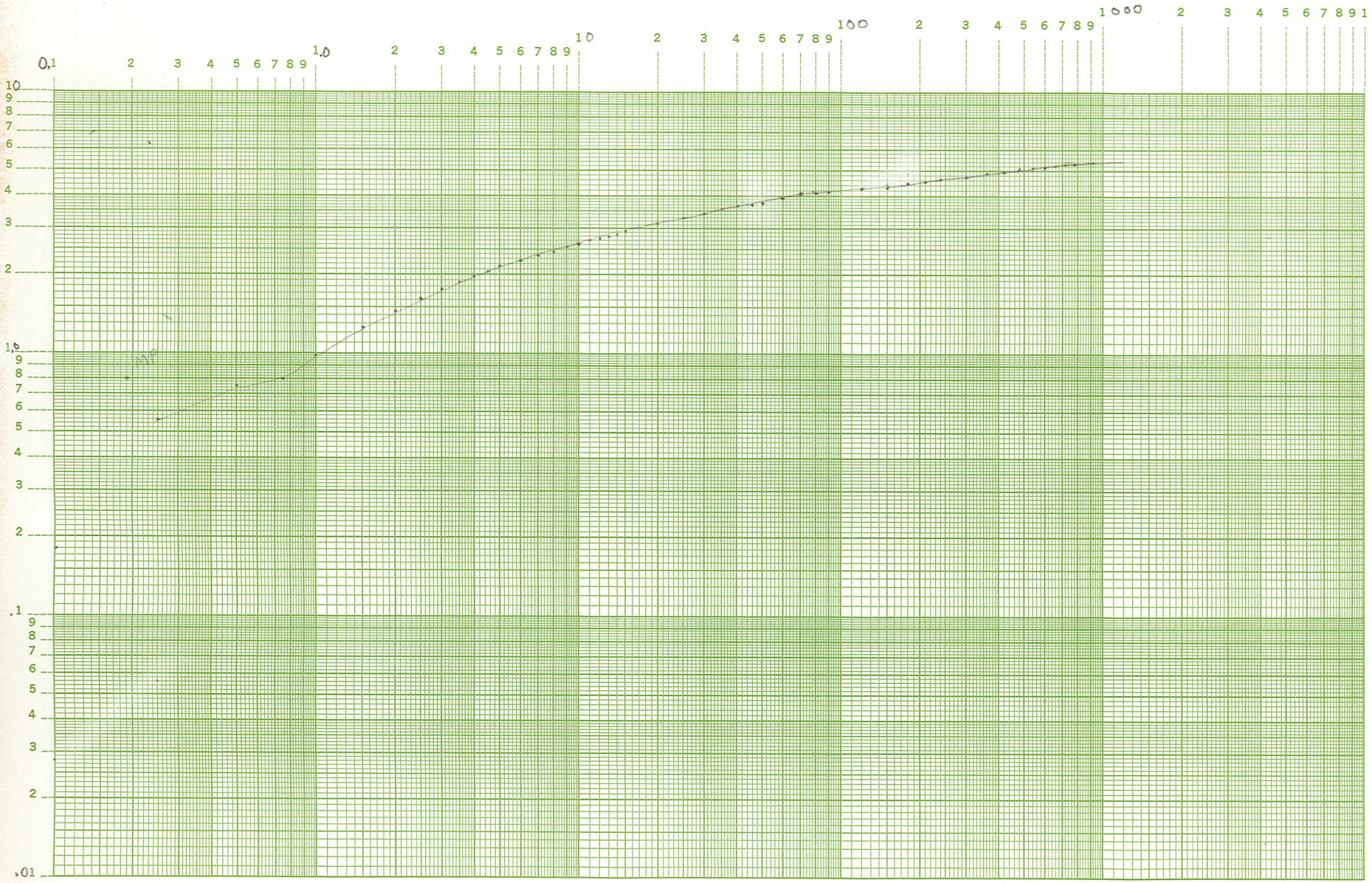


SE200A manufactured by
In-situ, Inc.
Laramie Wyomine

K+E LOGARITHMIC 3 x 5 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

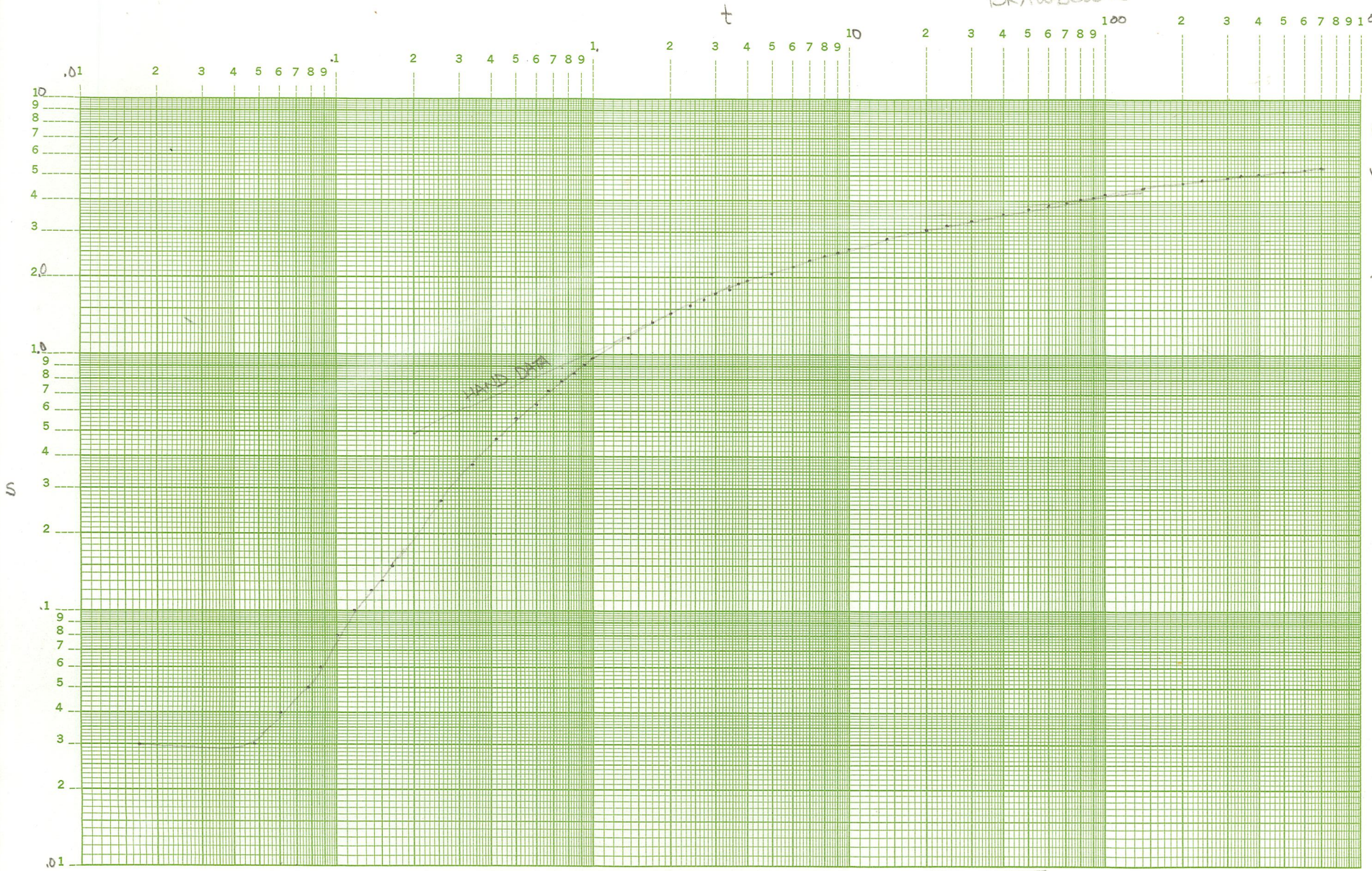
46 7522

RTA-9I
DRAWDOWN
OB#1



K+E LOGARITHMIC 3 x 5 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 7522 RTA-9I
INSITU
OB#1
DRAWDOWN

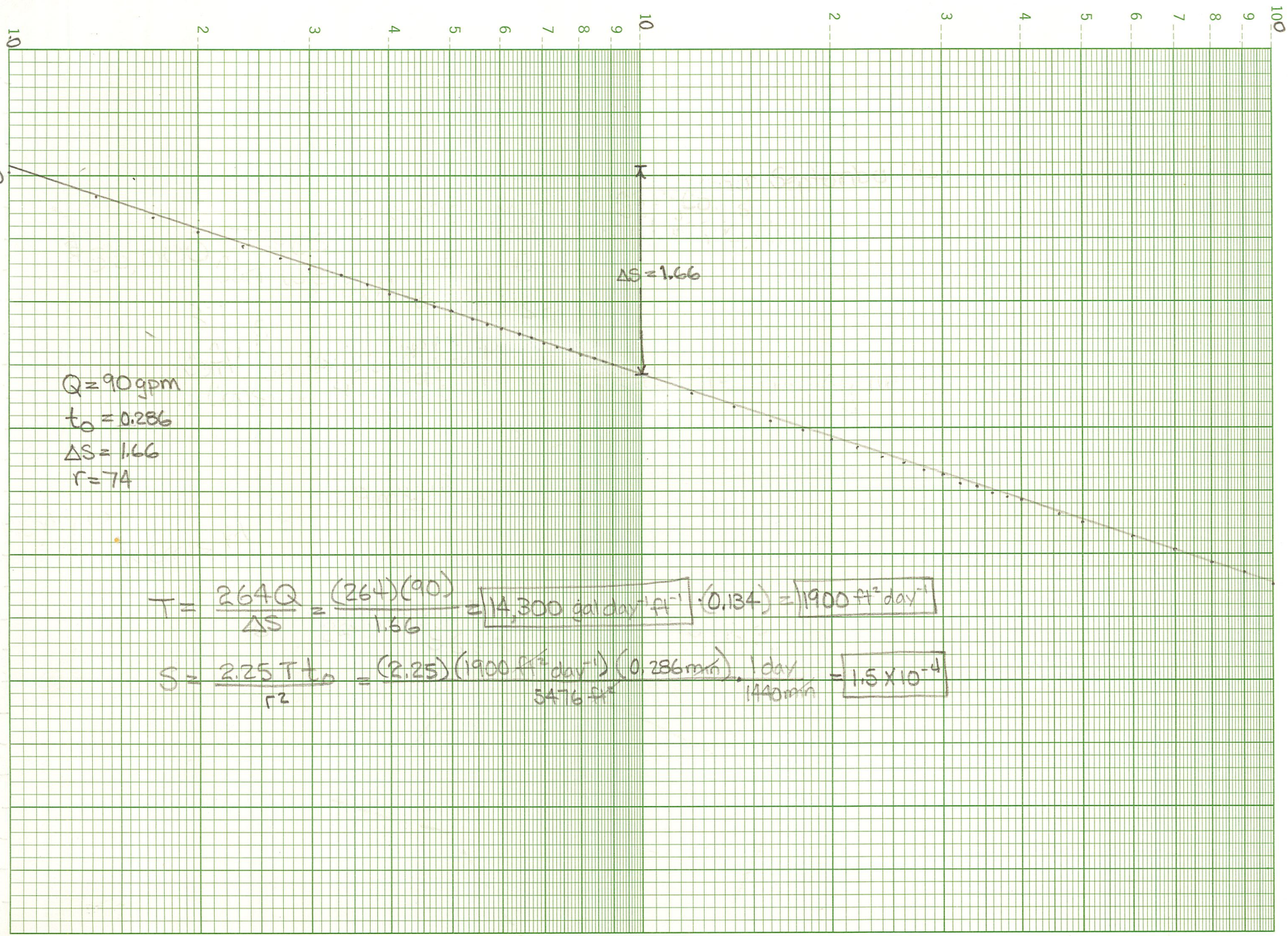


Q = 90
S = 0.80
W(U) = 1
t = 0.19
r² = (70.5)²
u = 1
T = .025

$$T = \frac{Q}{4\pi S} W(U) = \frac{90\ \text{Gal min}^{-1}}{(4)(\pi)(0.8\text{ft})} \cdot 1 \cdot \frac{1440\ \text{min}}{1\ \text{day}} = \boxed{12{,}900\ \text{gal day}^{-1}\text{ft}^{-1}} \cdot 0.134\ \text{ft}^3\text{gal}^{-1} = \boxed{1730\ \text{ft}^2\text{day}^{-1}}$$

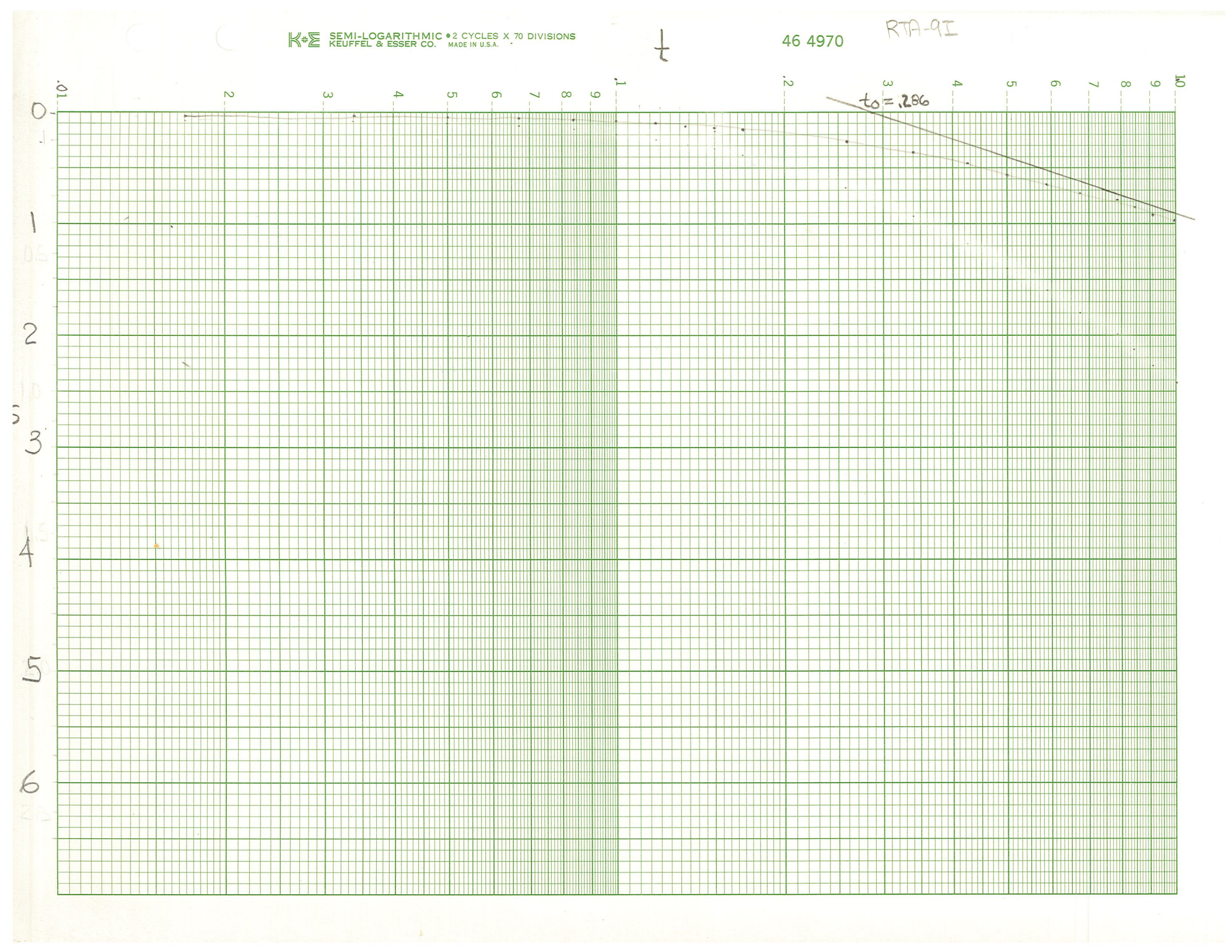
$$S = 4T\left(\frac{tu}{r^2}\right) = \frac{(4)(1730\ \text{ft}^2\text{day}^{-1})(1)(0.19\ \text{min})}{(4970\ \text{ft}^2)} \cdot \frac{(1\ \text{day})}{(1440\ \text{min})} = \boxed{1.8 \times 10^{-4}}$$

$$\frac{K'}{b'} = 4T\ \frac{v^2}{r^2} = 6.5 \times 10^{-3}\ \text{gpd/ft}^3$$



$$T = \frac{264Q}{\Delta S} = \frac{(264)(90)}{1.66} = \boxed{14{,}300 \text{ gal day}^{-1}\text{ ft}^{-1}} \cdot (0.134) = \boxed{1900 \text{ ft}^2\text{ day}^{-1}}$$

$$S = \frac{2.25 T t_0}{r^2} = \frac{(2.25)(1900 \text{ ft}^2\text{ day}^{-1})(0.286 \text{ min})}{54.76 \text{ ft}^2} \cdot \frac{1 \text{ day}}{1440 \text{ min}} = \boxed{1.5 \times 10^{-4}}$$


K+E SEMI-LOGARITHMIC • 2 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.
t
46 4970
RTA-9I
.01
.1
1.0
to = 1.286

PUMPING TEST DATA

Location: RTA-9I Date: 5/9

Pumped Well:

Depth 180 ft. Casing To 50 ft. Diameter 6 in.

Casing 0 to 50 ft. Diameter 6 in.

Disc. Pipe Diameter 4 in. Orifice Diameter 2 in.

Q 90 gpm.

Observation Wells:

Depth: 1= 80 ft. 2= 180 ft. 3=_____ft. 4=_____ft.

Casing Diameter: 1= 2 in. 2= 2 in. 3=_____in. 4=_____in.

Casing To: 1= 50 ft. 2= 150 ft. 3=_____ft. 4=_____ft.

Dist.(r): 1= 70.5 ft. 2= 6.5 ft. 3=_____ft. 4=_____ft.

Screen: 1= 50 to 80 ft. 2=_____to_____ft. 3=_____to_____ft.

Screen Diameter: 1= 2 in. 2=_____in. 3=_____in. 4=_____in.

Time	Elapsed Time (t)	Manometer Reading (in.)		Drawdown or Recovery (ft.)				
				~~Obs 1~~ Pumped 7.23	Obs. 1	Obs. 2 RECOVERY	Obs. 3	Obs. 4
0913	0	in. H_2O	Q gpm	7.51	0.28			
	15s			7.79	0.56			
	30s			7.98	0.75			
	45s			8.03	0.80			
0914	1.0m	43	96	8.22	0.98			
	1.5			8.50	1.26	11.77		
915	2.0			8.69	1.45	11.39		
	2.5			8.85	1.61	11.23		
916	3.0			9.00	1.76	11.14		
	3.5			9.10	1.86	11.10		
917	4.0			9.20	1.96	11.00		
	4.5			9.29	2.05	10.91		

Time	Elapsed Time (t)	Manometer Reading (in.)	gpm	Drawdown or Recovery (ft.)				
				Obs. 1 Pumped	Obs. 1 △	Obs. 2 RECOVERY	Obs. 3 △ RECOVERY	Obs. 4
918	5	in.	Q	9.37	2.13	10.85		
919	6			9.51	2.27	10.67		
920	7			9.62	2.38	10.52		
921	8			9.69	2.45	10.43		
922	9			9.80	2.56	10.34		
923	10	41½"	94	9.86	2.62	10.25		
924	11			9.91	2.70	10.18		
925	12			10.00	2.76	10.15		
926	13			10.01	2.80	10.12		
927	14			10.10	2.86	10.06		
928	15			10.17	2.93	10.02		
933	20			10.46	3.16	9.87		
938	25			10.51	3.30	9.71		
943	30	39."	91	10.66	3.42	9.62		
948	35			10.82	3.58	9.45		
953	40			10.91	3.67	9.39		
958	45			10.95	3.71	9.31		
1003	50			11.03	3.79	9.21		
1013	60	37¼"	89	11.18	3.94	9.03		
1023	70			11.29	4.05	8.96		
1033	80			11.35	4.11	8.86		
1043	90			11.43	4.19	8.78		
1113	120			11.61	4.27	8.57		
1143	150			11.78	4.34	8.42		
1213	180			11.92	4.48	8.29		
1243	210			12.03	4.53	8.18		
1313	240			12.11	4.61	8.09		
1413	300			12.23	4.73	7.94		
1513	360	35½"	87	12.35	4.86	7.84		
1613	420	34½	86	12.47	4.98	7.75		
1713	480			12.53	5.04	7.68		
1813	540			12.59	5.10	7.61		
1913	600			12.65	5.16	7.54		

Time	Elapsed Time (t)	Manometer Reading (in.)	Drawdown or Recovery (ft.)				
			Pumped	Obs. 1	~~Obs. 2~~	Obs. 3 RECOVERY	Obs. 4
2013	660			12.70	5.21		
2113	720			12.77	5.28		
2213	780			12.79	5.30		
2313	840			* PUMP SHUT OFF			
0013	900			BY ITSELF			
0113	960						
0213	1020						
0313	1080						
0413	1140						
0513	1200						
0613	1260						
0713	1320						
0813	1380						
0913	1440						

5/10

PUMPING TEST DATA

Location: RTA-9I Date: 5/9

Pumped Well:

Depth 80 ft. Casing To 50 ft. Diameter 6 in.

Casing 0 to 50 ft. Diameter 6 in.

Disc. Pipe Diameter 4 in. Orifice Diameter 2 in.

Q 90 gpm.

Observation Wells:

Depth: 1= 80 ft. 2= 180 ft. 3=_____ft. 4=_____ft.

Casing Diameter: 1= 2 in. 2= 2 in. 3=_____in. 4=_____in.

Casing To: 1= 50 ft. 2= 150 ft. 3=_____ft. 4=_____ft.

Dist.(r): 1= 70.5 ft. 2= 6.5 ft. 3=_____ft. 4=_____ft.

Screen: 1= 50 to 80 ft. 2=_____to_____ft. 3=_____to_____ft.

Screen Diameter: 1= 2" in. 2=_____in. 3=_____in. 4=_____in.

Time	Elapsed Time (t)	Manometer Reading (in.)		Drawdown or Recovery (ft.)				
				Pumped	Obs. 1	Obs. 2	Obs. 3	Obs. 4
913	0	in. H_2O	Q gpm	6.67	—			
	15s			14.94	8.27			
	30s			15.32	8.65			
	45s			15.70	9.03			
0914	1mi			16.00	9.33			
	1.5			16.27	9.60			
0915	2.0			16.53	9.86			
	2.5			16.70	10.03			
0916	3.0			16.79	10.12			
	3.5			16.94	10.27			
0917	4.0			16.99	10.32			
	4.5			17.07	10.40			

RTA-9L

Time	Elapsed Time (t)	Manometer Reading (in.)	gpm	Drawdown or Recovery (ft.) Pumped	Obs. 1	Obs. 2	Obs. 3	Obs. 4
0918	5.0	in.	Q	17.16	10.49			
0919	6			17.28	10.61	9.75		
0920	7			17.38	10.71	9.50		
0921	8			17.47	10.80	9.36		
0922	9			17.54	10.87	9.24		
0923	10			17.59	10.92	9.20		
0924	11			17.65	10.98	9.15		
0925	12			17.76	11.01	9.08		
0926	13			17.76	11.01	9.05		
0927	14			17.80	11.11	8.99		
0928	15			17.92	11.23	8.96		
0933	20			18.17	11.48	8.91		
0938	25			18.33	11.64	8.67		
0943	30			18.40	11.71	8.62		
0948	35			18.57	11.89	8.48		
0953	40			18.65	11.96	8.39		
0958	45			18.78	12.09	8.30		
1003	50			18.87	12.18	8.25		
1013	60			18.92	12.23	8.08		
1023	70			19.02	12.33	8.00		
1033	80			19.12	12.43	7.94		
1043	90			19.18	12.49	7.85		
1113	120			19.37	12.68	7.59		
1143	150			19.50	12.81	7.44		
1213	180			19.60	12.91	7.31		
1243	210			19.69	13.00	7.19		
1313	240			19.75	13.06	7.11		
1413	300			19.84	13.15	6.96		
1513	360			19.95	13.26	6.85		
1613	420			20.07	13.38	6.77		
1713	480			20.11	13.42	6.71		
1813	540			20.14	13.45	6.67		
1913	600			20.20	13.51	6.61		

RTA-9I

Time	Elapsed Time (t)	Manometer Reading (in.)	Drawdown or Recovery (ft.)				
			Pumped	Obs. 1	Obs. 2	Obs. 3	Obs. 4
2013	660		20.24	13.25			
2113	720		20.27	13.58			
2213	780						
2313	840						
0013	900						
5/10 > 0113	960						
0213	1020						
0313	1080						
0413	1140						
0513	1200						
0613	1260						
0713	1320						
0813	1380						
0913	1440						

LIMESTONE

RTA-9 (1)

TOC ±1.5' L.S. 180' w/ 150' casing

4 inch pipe / 3" orifice

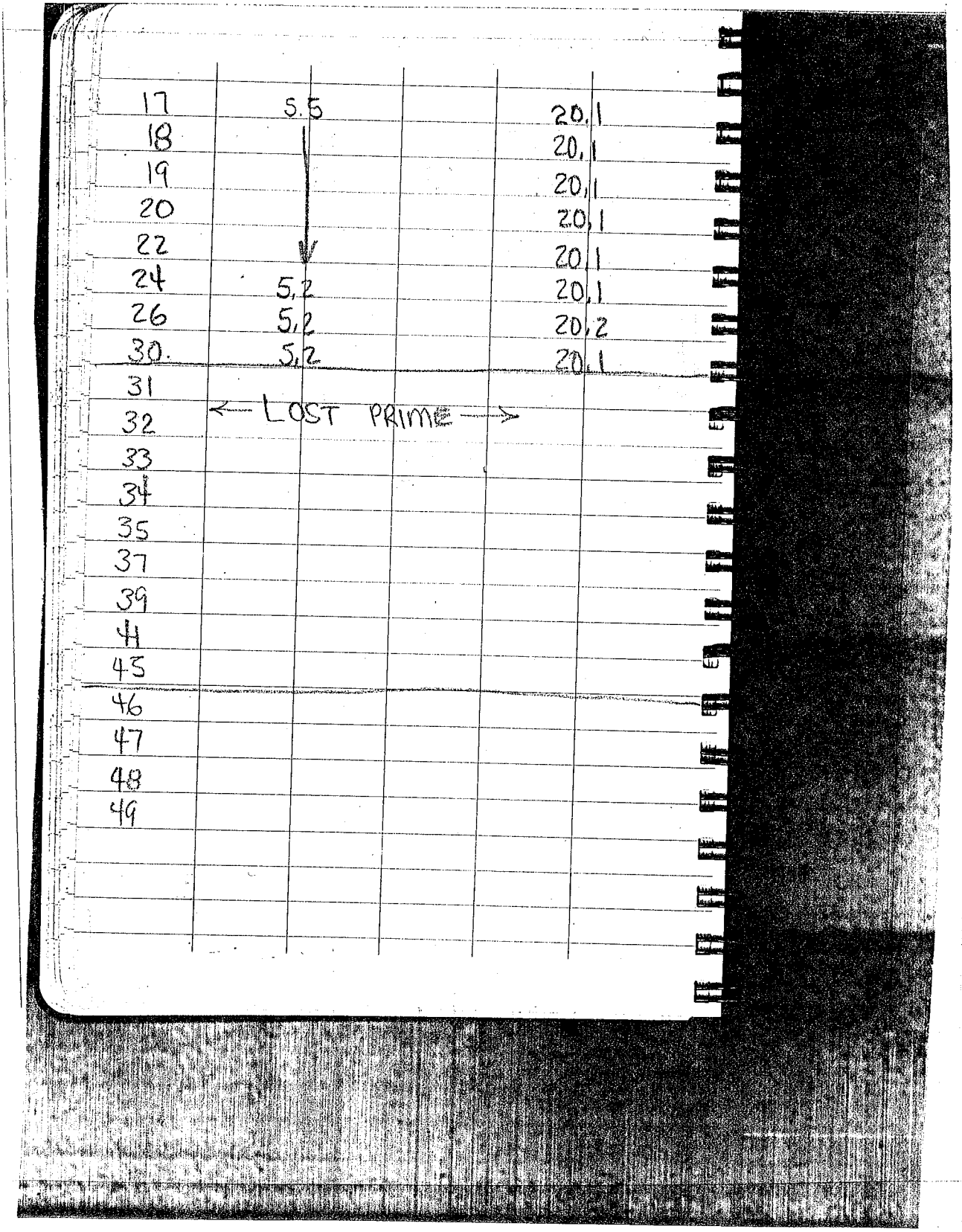
Initial water level ——→ 6.2' TOC

Temp. — 24.8°C Cond - 2700

Begin pumping c 1120 4" pipe/3" orf

Time	mano	Flow	Ft. below L.S.
0:00	0.0		4.7
1:00	3.2		14.6
2:00	3.2		14.6
3:00	3.2		14.7
4:00	3.2		14.9
5:00	3.2		15.0
	3.2		↓
7	3.2		15.0
			↓
9			16.5
11			16.5
			↓
15	↓		16.6
16	5.5		20.1

LEVEL


17
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49
5.5
5.2
5.2
5.2
20.1
20.1
20.1
20.1
20.1
20.1
20.2
20.1
← LOST PRIME →

RTA-9I DRAWDOWN 5/9-5/10

Well	Input No.	TRANSDUCER S/N	Scale Factor	Length Jt Hole (ft)	Distance (r) (ft)	W_T
PUMPED	3	113	9.96	25'	0	6.67
OB#1	1	38	9.96	30'	70.5'	7.27
OB#2	2	171	49.38	30'	6.5'	6.72

$Q = KA \cdot 8.025\sqrt{h} = (0.58)(\pi)(8.025)(\sqrt{h}) = 14.62(\sqrt{h})$

$h = \left(\frac{Q}{14.62}\right)^2$

Note: At 1002 I put more transducer line in pumped well due to fact that the change recorded by hand vs. the instrument was off - I was afraid that it was too shallow. So take drawdown from that point on.

HRS	Terry	Joan
M	10	8
T	9½ (10)	14½
W	4½ (5)	11
R	(12)	

	#1	#2	#3
1026	4.00	0.0	1.71
1614	5.13	0.09	2.63
	1.13	009	.92

2220 Pump shut off for the third time w/ still a half of tank of gasoline - pumps fucked! Had to restart twice before I could get w/ ½ tank remaining - would die out, then pick up & repeat - what night.

missed the first min of readings on OB#1
& missed the first 5 min on the pumped. Oh well
w/ only one man... to bad so sad!

RTA-5 I

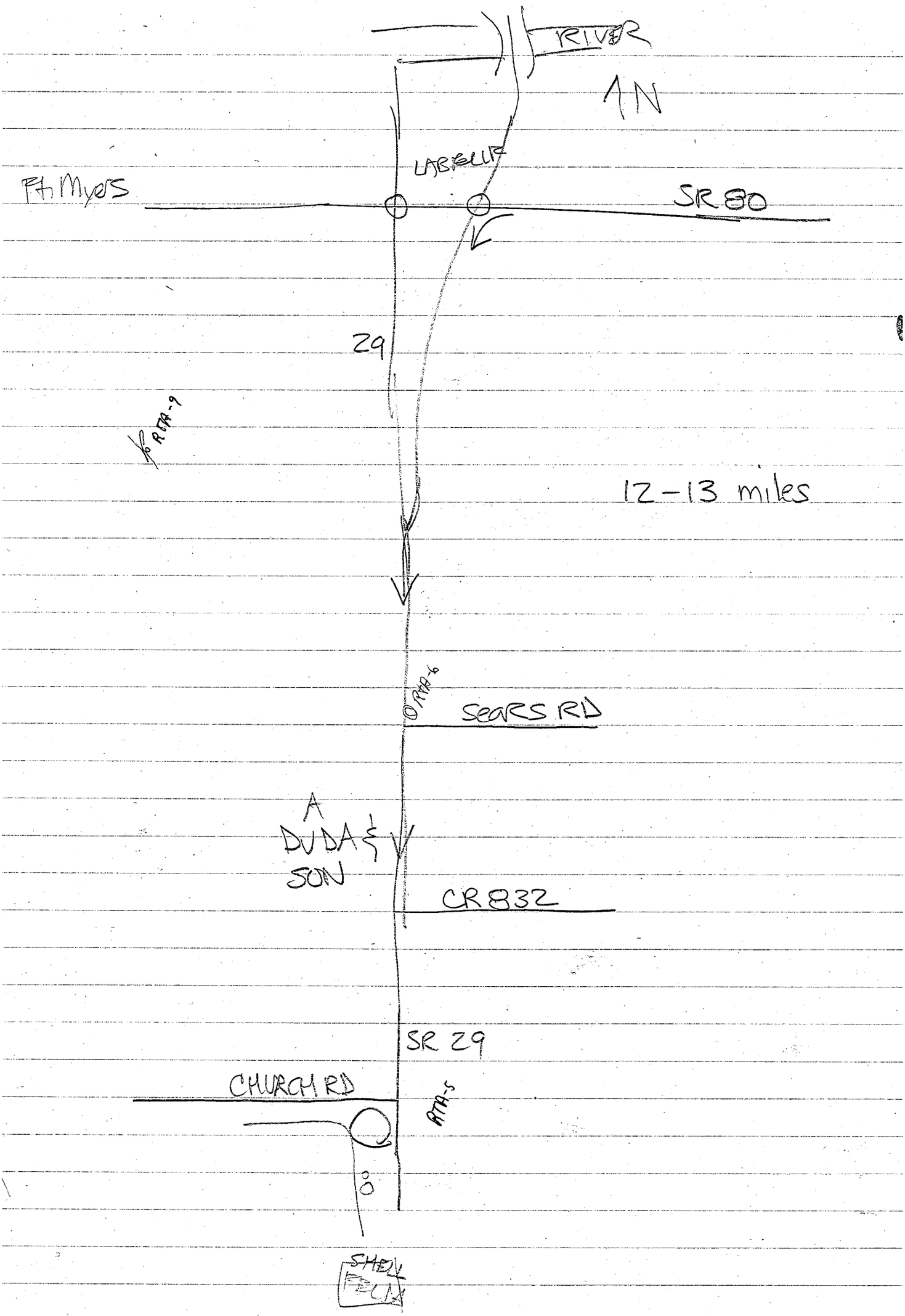
TD 43.5 4" sch.80 Pvc / 2" orifice

~~Q_1~~

initial water level → 10.30 Water Sample

S5A

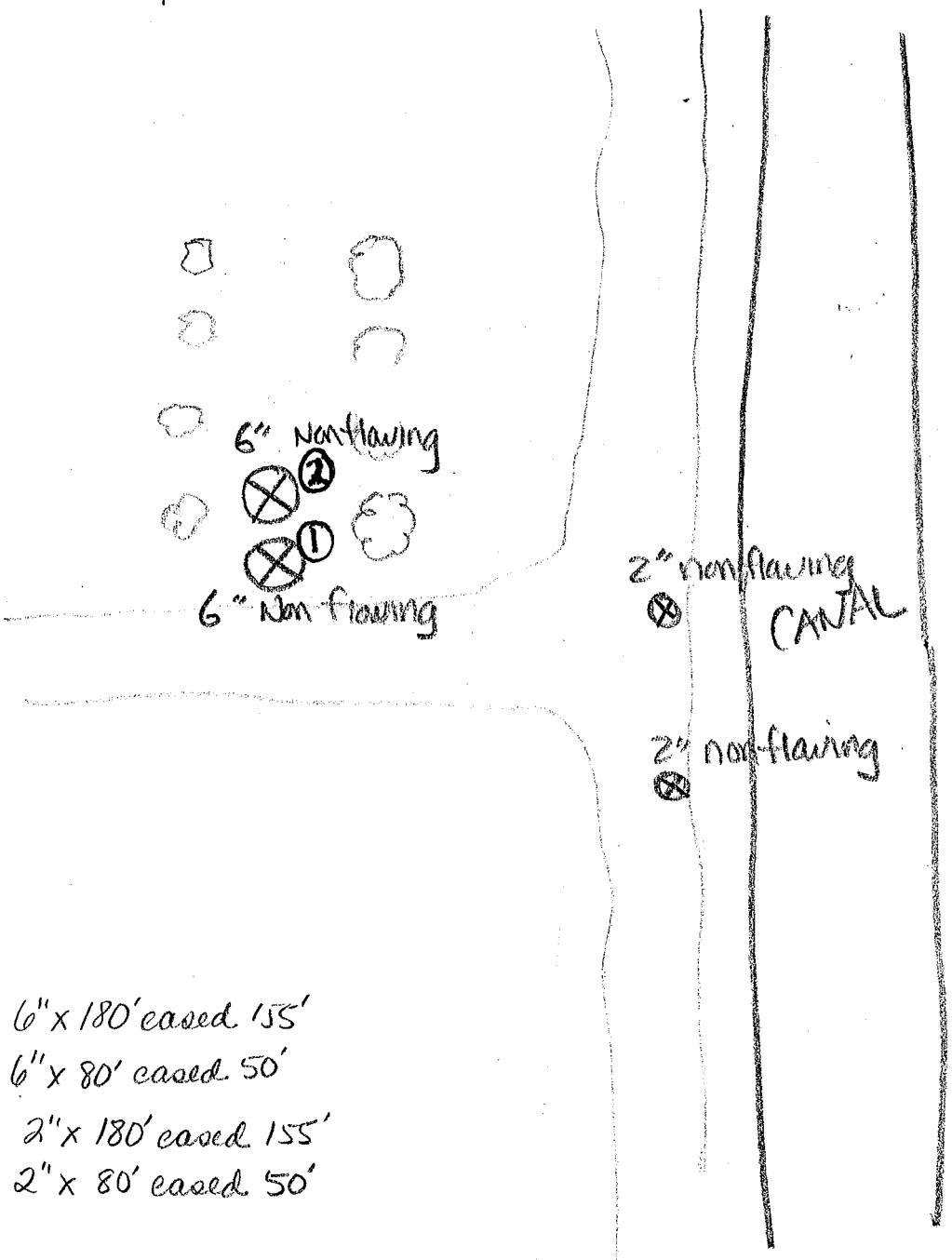
29" = Q_1	13.21	20 min	1510
63" = Q_2	17.14	20 min	1-2
98" Q_3	19.27	20 min	


RIVER
N
LABELLE
Pt. Myers
SR 80
29
RTA-9
12-13 miles
RTA-6
SEARS RD
A
DUDA
SUN
CR 832
SR 29
CHURCH RD
RTA-5
SHELL

RTA-9

DUDA'S PROPERTY

S 6 T44 R28



6"x 180' cased 155'
6"x 80' cased 50'
2"x 180' cased 155'
2"x 80' cased 50'

FORM 0123
11/84

WELL CONSTRUCTION PERMIT APPLICATION AND PERMIT

WHITE - ORIGINAL PINK - HEALTH
CANARY - INSPECTOR GOLDENROD - DRILLER

For use by SFWMD personnel only
Date: 2/19/85
Permit No. SF02195-C
Well #: _____

Send to: WATER WELL PERMITTING, R.C.
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX "V"
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33402
PHONE: (305) 686-8800 TOLL FREE: 1-800-432-2045

FEE SCHEDULE

Public Supply less than 6 inches	$35.00
Public Supply six inches or greater	$55.00
Non-Public Supply six inches or greater	$30.00
Abandonment	No Fee

APPLICATION TO SOUTH FLORIDA WATER MANAGEMENT DISTRICT FOR: [X] New Well Construction [ ] Well Abandonment [ ] Repair
WATER USE PERMIT: [ ] Request submitted concurrently; [X] Permit granted; Permit No. 260055W

OWNER, BUSINESS, OR CORPORATION

NAME Duda & Son
ADDRESS Rt. 29 PO Box 788
CITY LaBelle STATE Fl. ZIP _____
PHONE (813) 675-0545

CONSULTING ENGINEER OR GEOLOGIST

NAME _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
PHONE ( ) _____

WELL CONTRACTOR

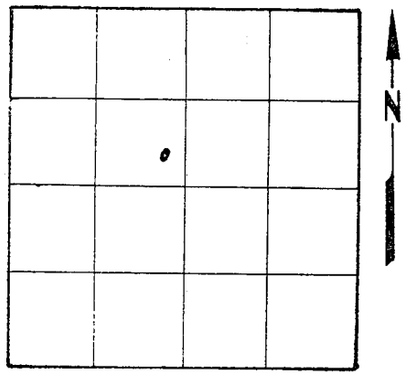
NAME McGregor Pump Co. Inc
ADDRESS P.O. Box 6577
CITY Ft. Myers STATE Fl. ZIP 33906
PHONE (813) 481-0033
LICENSE NUMBER 2020

DRILLER

NAME Ken Lovejoy
ADDRESS _____
CITY Same STATE _____ ZIP _____
PHONE ( ) _____
REGISTRATION NUMBER _____

WELL LOCATION Rt. 80 - Across From Ft. LaBelle
SITE ADDRESS OR CLOSEST TWO ROADS WITH DISTANCE TO WELL

COUNTY Hendry 1/4 SE 1/4 NW 1/4 SEC 12
-OR-
TWP ~~45~~ S RGE 29 E
LATITUDE _____ LONGITUDE _____
(To nearest second)



PWS well location must be staked in the field for inspection purposes.

WELL USE: Private Well [ ] Public Water Supply [ ] Test [ ] Monitor [ ]
Irrigation [X] Fire Well [ ] Other _____
Note: For PWS attach SFWMD Form 0195 and 4 copies of site plan.

PUMP SPECIFICATIONS: Pump Type Centi Capacity 100 GPM
Pump Size 5 H.P. Intake Depth 20 FT (from ground) GPM
SPECIFIC CAPACITY: _____ GPM/FT
EXPECTED USAGE: 75000 Gallons per day During Dry Season

LOCATE IN SECTION

CONSTRUCTION SPECIFICATIONS: Rotary with MUD [ ] or Air [ ], Casing Driven [ ], Cable Tool [ ], Jetting [ ]
Borehole 12" diameter. Other _____
Surface or outside Casing will be _____"(in) diameter X _____'(ft) depth.
Grouted bottom to top [ ] Bottom 5, Top 20 [ ] with _____# of bags.
Single or inside casing will be 8 "(in) diameter X 30 '(ft) depth.
Grouted bottom to top [ ] Bottom 5, Top 20 [ ] with _____# of bags. Top To Bottom
Grout composition with % additives: Portland #1
Total depth of well 40 '(ft). Open hole from 30 '(ft) to 40 "(ft).
Screen, s. steel [X] PVC [ ] Fiberglass [ ], slot size ____, diameter _____"(in) X _____'(ft)
Screened from _____'(ft) to _____'(ft). Gravel packed to _____'(ft) above screen.
Casing Material: PVC [ ] Scedule # _____ Fiberglass [ ] Other _____
Black Steel [X] Galv. [ ] _____ lbs/ft.

ANTICIPATED STARTING DATE: FEB 22, 1985

METHOD OF PLUGGING OR ABANDONMENT _____

DESCRIPTION OF WELL REPAIR _____

I HEREBY CERTIFY THAT THE CONSTRUCTION, ABANDONMENT OR REPAIR OF THE WELL WILL COMPLY WITH THE RULES OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT, WILL NOT ADVERSELY AFFECT THE WATER RESOURCES, AND THAT A WATER USE PERMIT, IF NEEDED, HAS OR WILL BE OBTAINED FOR THIS PROJECT PRIOR TO COMMENCEMENT OF WELL CONSTRUCTION. I FURTHER AGREE TO PROVIDE A WELL COMPLETION REPORT TO SOUTH FLORIDA WATER MANAGEMENT DISTRICT WITHIN 30 DAYS FROM COMPLETION OF THE WELL. ISSUANCE OF A PERMIT PURSUANT TO THIS APPLICATION DOES NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY TO ACQUIRE ANY NECESSARY APPROVALS FROM ANY OTHER FEDERAL, STATE, OR LOCAL GOVERNMENTAL AGENCIES.

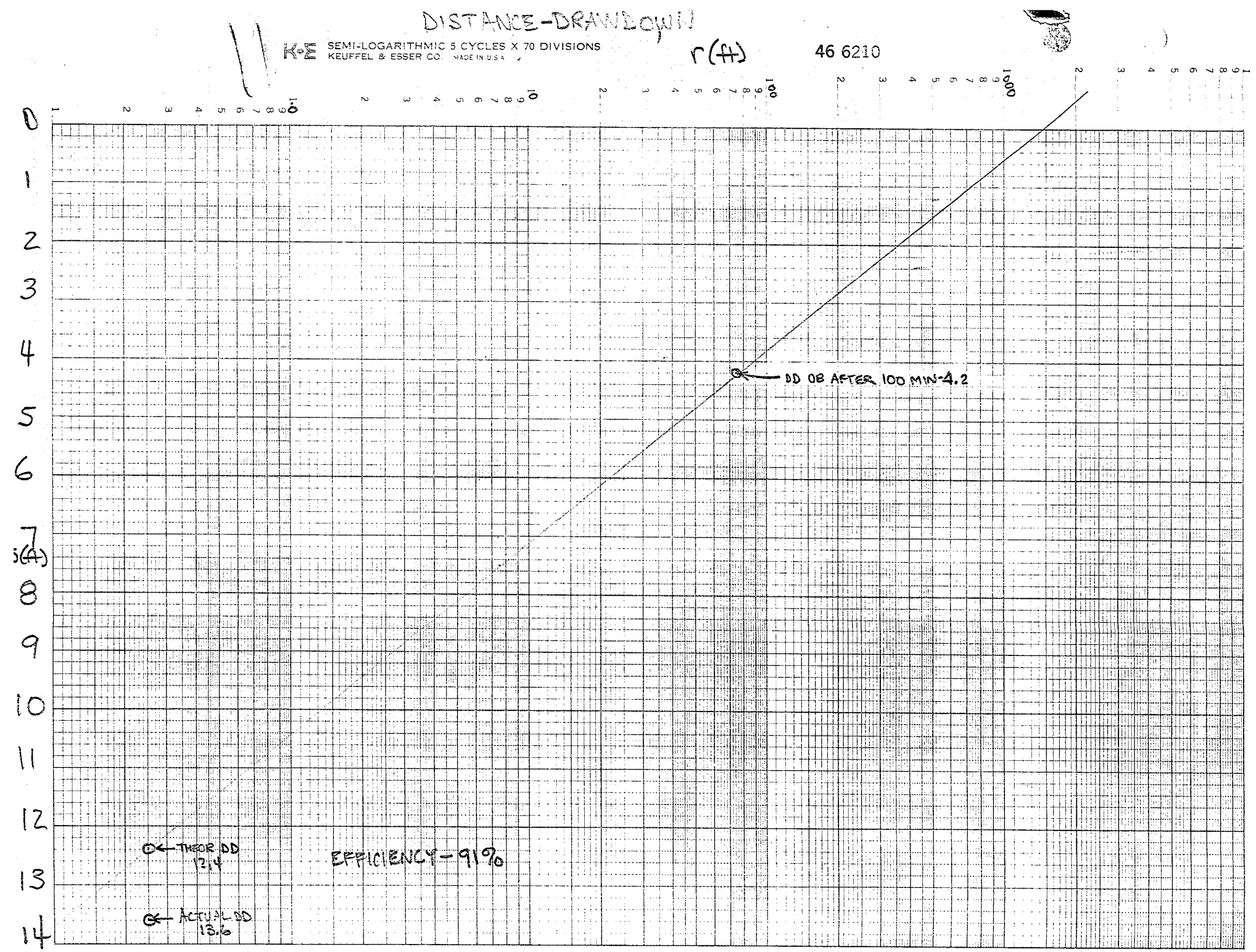
Mark Wyatt
SIGNATURE OF OWNER OR AUTHORIZED AGENT
DATE 2/12/85

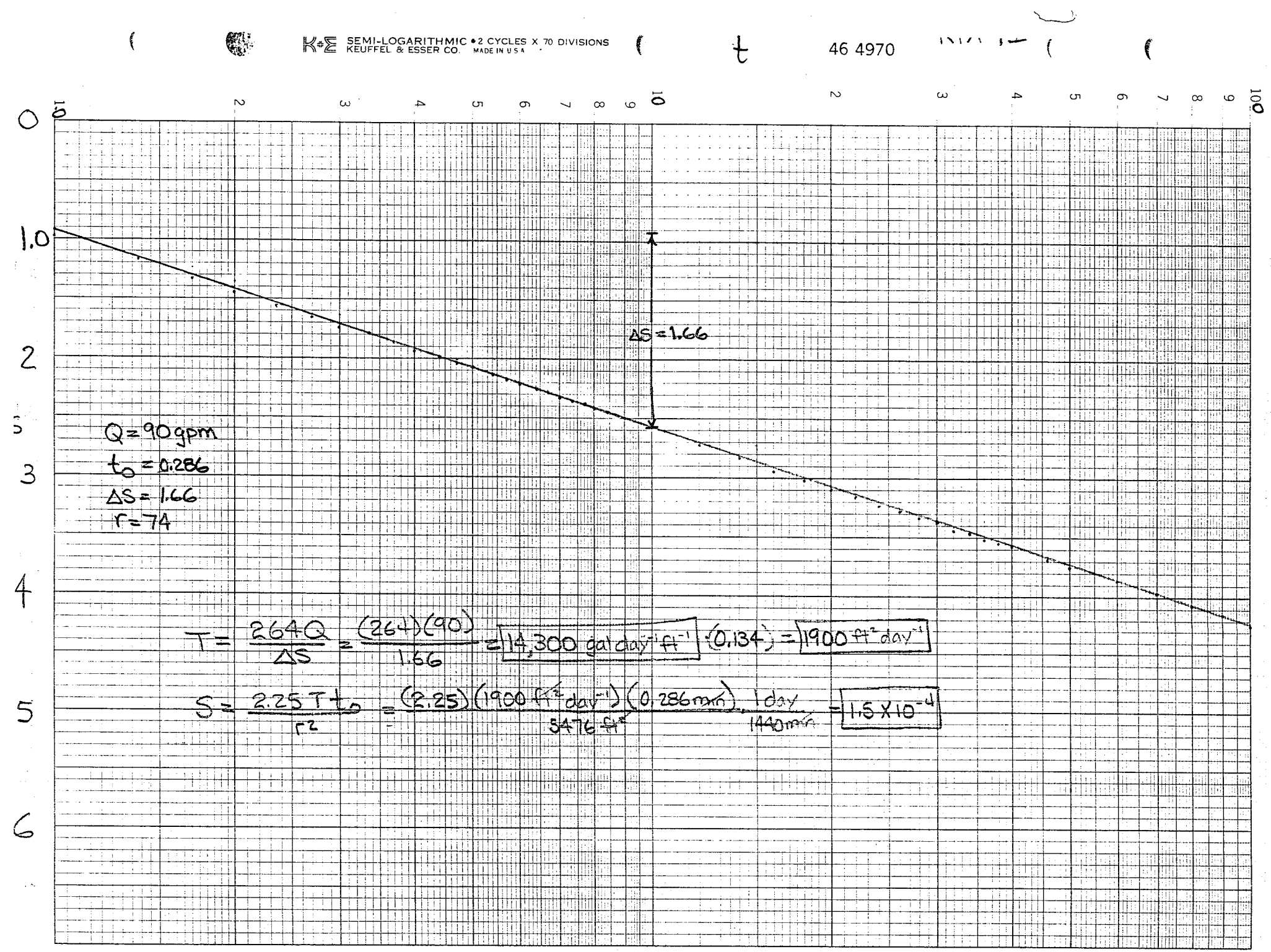
Kenneth Lovejoy
CONTRACTOR'S SIGNATURE
DATE 2/6/85

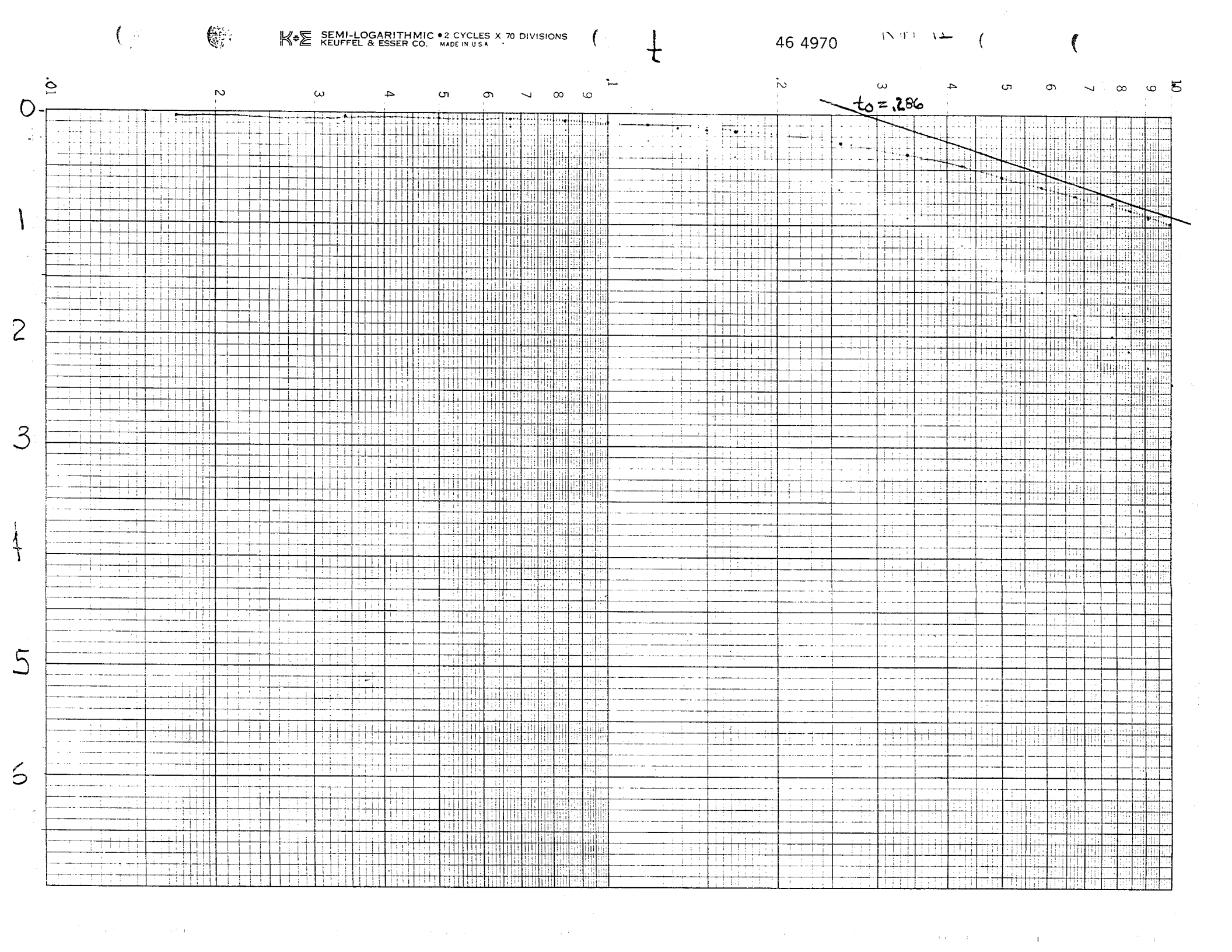
RECEIVED
FEB 19 1985
RESOURCE CONTROL DEPARTMENT

DO NOT WRITE BELOW THIS LINE — PERMIT ACTION

Permit Rejected ( ) Reason _____
Permit Granted ( ) Conditions or Variances _____
Well Cuttings Required: ( )No ( )Yes _____
SIGNATURE OF AUTHORIZED DISTRICT REPRESENTATIVE : _____ APPLICATION FEE ENCLOSED $ _____
PERMIT VALID FOR SIX MONTHS FROM THIS DATE: _____ Planar Coordinates _____ E _____ N


DISTANCE-DRAWDOWN
SEMI-LOGARITHMIC 5 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.
r (ft)
46 6210
DD OB AFTER 100 MIN-4.2
THEOR DD 12.4
EFFICIENCY - 91%
ACTUAL DD 13.6
s (ft)


SEMI-LOGARITHMIC • 2 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.
46 4970
t
s
ΔS = 1.66
Q = 90 gpm
t_o = 0.286
ΔS = 1.66
r = 74
$T = \frac{264Q}{\Delta S} = \frac{(264)(90)}{1.66} = 14{,}300\ gal\ day^{-1}\ ft^{-1}$
$(0.134) = 1900\ ft^2\ day^{-1}$
$S = \frac{2.25\,T\,t_o}{r^2} = \frac{(2.25)(1900\ ft^2\ day^{-1})(0.286\ min)}{5476\ ft^2}\ \frac{1\ day}{1440\ min} = 1.5 \times 10^{-4}$


K&E SEMI-LOGARITHMIC • 2 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.
46 4970
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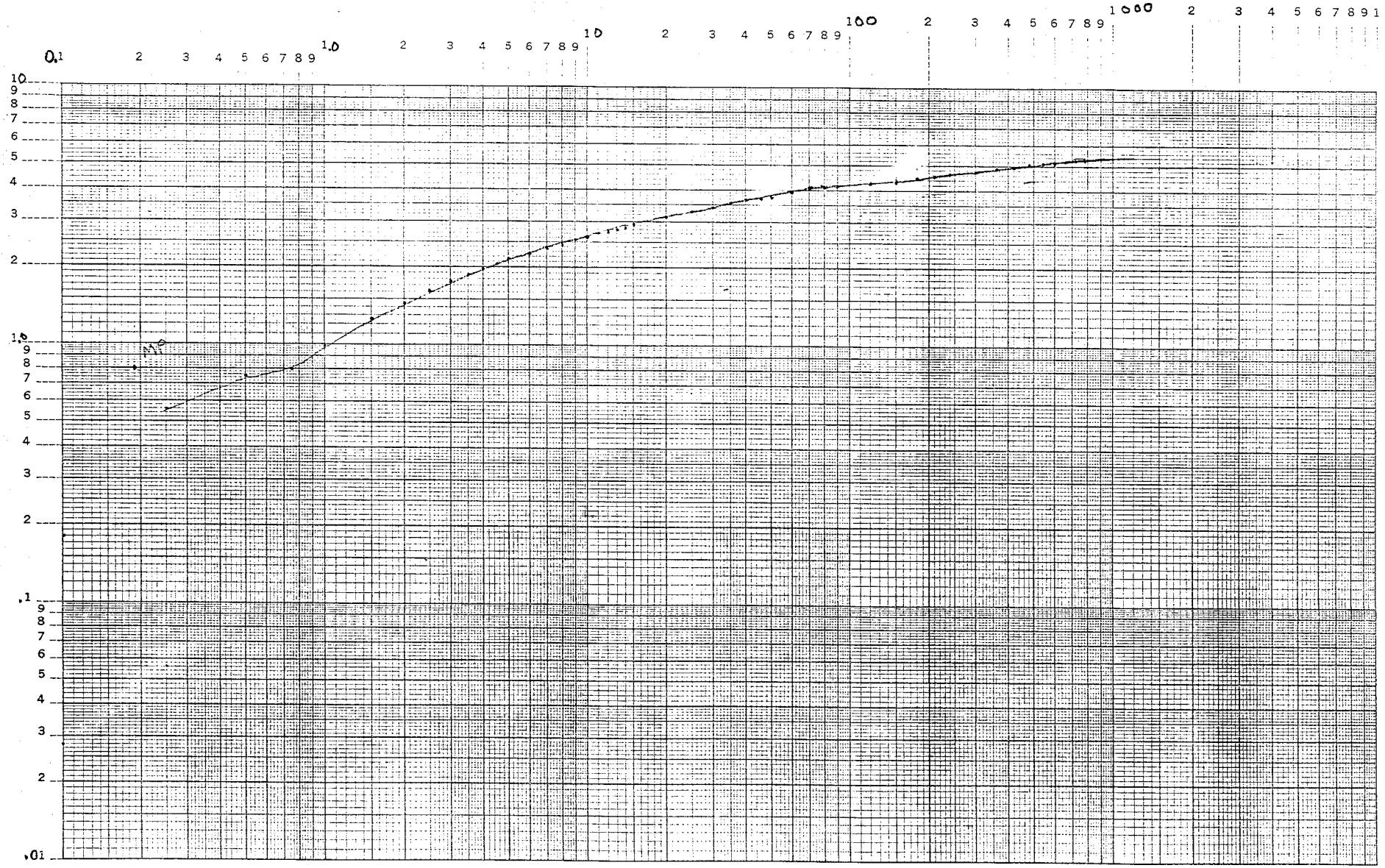
to = .286


K&E LOGARITHMIC 3 x 5 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.
46 7522
RTA-9I
DRAWDOWN
OB#1
0.1
1.0
10
100
1000
10
9
8
7
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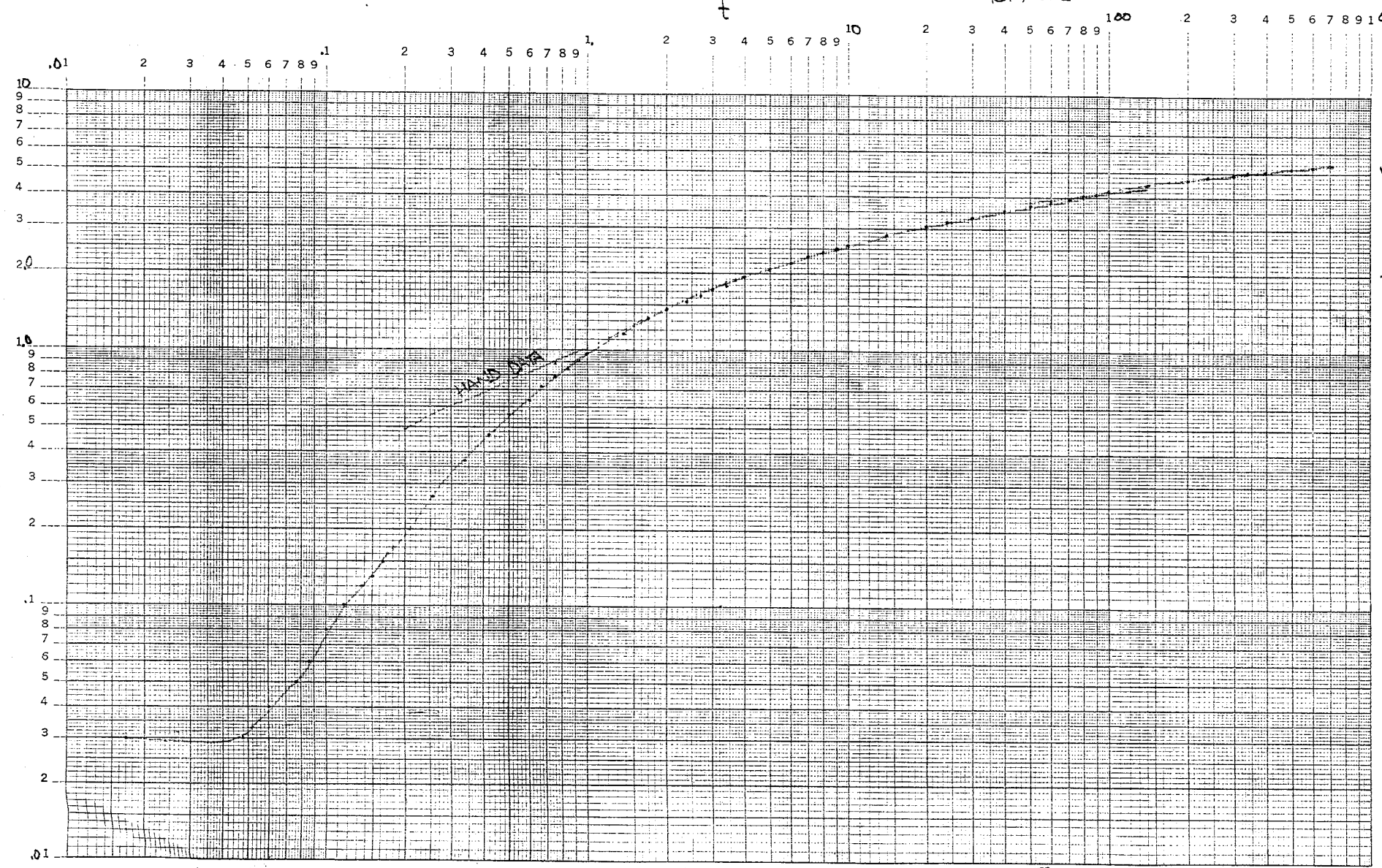
1.0
.1
.01

K+E LOGARITHMIC 3 x 5 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 7522 RTA-41
INSITU
OB#1
DRAWDOWN



Q = 90
S = 0.80
W(U) = 1
t = 0.19
r² = (70.5)²
u = 1
Γ = .025

$$T = \frac{Q}{4\pi S} W(U) = \frac{90\ \text{Gal min}^{-1}}{(4)(\pi)(0.8\text{ft})} \cdot 1 \cdot \frac{1440\text{min}}{1\text{day}} = \boxed{12{,}900\ \text{gal day}^{-1}\text{ft}^{-1}} \cdot 0.134\ \text{ft}^3\text{gal}^{-1} = \boxed{1730\ \text{ft}^2\text{day}^{-1}}$$

$$S = 4T\left(\frac{t}{r^2}U\right) = \frac{(4)(1730\text{ft}^2\text{day}^{-1})(1)(0.19\text{min})}{(4970\text{ft}^2)} \cdot \frac{(1\text{day})}{(1440\text{min})} = \boxed{1.8 \times 10^{-4}}$$

$$\frac{K'}{b'} = 4T\frac{\Gamma^2}{r^2} = 6.5 \times 10^{-3}\ \text{gpd/ft}^3$$

RTA-9I DRAWDOWN 5/9-5/10

Well	Input No.	TRANSDUCER S/N	Scale Factor	Length In Hole (ft)	Distance(r) (ft)	W_I
PUMPED	3	113	9.96	25′	0	6.67
OB#1	1	38	9.96	30′	70.5′	7.27
OB#2	2	171	49.38	30′	6.5′	6.72

$$Q = KA\,8.025\sqrt{h} = (0.58)(\pi)(8.025)(\sqrt{h}) = 14.62(\sqrt{h})$$

$$h = \left(\frac{Q}{14.62}\right)^2$$

Note: At 1002 - put more transducer line in pumped well due to fact that the change recorded by hand vs. the insitu (was off) - I was afraid that it was too shallow. So take drawdown from that point on.

HRS	Tony	Joan		#1	#2	#3
			1026	14.00	0.0	1.71
M	10	8	1614	5.13	0.09	2.63
T	9½ (10)	14½		8.13	009	.92
W	4½ (5)	11				
R	(12)					

2220 Pump shut off for the third time w/ still a half of tank of gasoline - pumps fucked! (Had to restart twice before & add gas w/ ½ tank remaining - would die out, then pick up & repeat - What night.

m

PUMPING TEST DATA

Location: RTA-9I Date: 5/9

Pumped Well:

Depth 80 ft. Casing To 50 ft. Diameter 6 in.

Casing 0 to 50 ft. Diameter 6 in.

Disc. Pipe Diameter 4 in. Orifice Diameter 2 in.

Q 90 gpm.

Observation Wells:

Depth: 1= 80 ft. 2= 180 ft. 3= ____ ft. 4= ____ ft.

Casing Diameter: 1= 2 in. 2= 2 in. 3= ____ in. 4= ____ in.

Casing To: 1= 50 ft. 2= 150 ft. 3= ____ ft. 4= ____ ft.

Dist.(r): 1= 70.5 ft. 2= 6.5 ft. 3= ____ ft. 4= ____ ft.

Screen: 1= 50 to 80 ft. 2= ____ to ____ ft. 3= ____ to ____ ft.

Screen Diameter: 1= 2 in. 2= ____ in. 3= ____ in. 4= ____ in.

Time	Elapsed Time (t)	Manometer Reading (in.)		Drawdown or Recovery (ft.)				
				~~Obs 1 Pumped 7.23~~	~~Obs 1~~ Obs 2	Obs. 2 RECOVERY	Obs. 3	Obs. 4
0913	0	in. H_2O	Q gpm	7.51	0.28			
	15s			7.79	0.56			
	30s			7.98	0.75			
	45s			8.03	0.80			
0914	1.0m	43	96	8.22	0.98			
	1.5			8.50	1.26	11.77		
915	2.0			8.69	1.45	11.39		
	2.5			8.85	1.61	11.28		
916	3.0			9.00	1.76	11.14		
	3.5			9.10	1.86	11.10		
917	4.0			9.20	1.96	11.00		
	4.5			9.29	2.05	10.91		

Time	Elapsed Time (t)	Manometer Reading (in.)	gpm	Drawdown or Recovery (ft.)				
				~~OB ✕ 1 Pumped~~	~~Obs. 2 △~~	~~Obs. 3 △~~		Obs. 4
						RECOVERY	RECOVERY	
918	5	in.	Q	9.37	2.13	10.85		
919	6			9.51	2.27	10.67		
920	7			9.62	2.38	10.52		
921	8			9.69	2.45	10.43		
922	9			9.80	2.56	10.34		
923	10	41½"	94	9.86	2.62	10.25		
924	11			9.91	2.70	10.18		
925	12			10.00	2.76	10.15		
926	13			10.04	2.80	10.12		
927	14			10.10	2.86	10.06		
928	15			10.17	2.93	10.02		
933	20			10.41	3.16	9.87		
938	25			10.55	3.30	9.71		
943	30	39."	91	10.66	3.42	9.62		
948	35			10.82	3.58	9.45		
953	40			10.91	3.67	9.39		
958	45			10.95	3.71	9.31		
1003	50			11.03	3.79	9.21		
1013	60	37¼"	89	11.18	3.94	9.03		
1023	70			11.29	4.05	8.96		
1033	80			11.35	4.11	8.86		
1043	90			11.43	4.19	8.78		
1113	120			11.61	4.27	8.57		
1143	150			11.78	4.34	8.42		
1213	180			11.92	4.48	8.29		
1243	210			12.03	4.53	8.18		
1313	240			12.11	4.61	8.09		
1413	300			12.23	4.73	7.94		
1513	360	35½"	87	12.35	4.86	7.84		
1613	420	34½	86	12.47	4.98	7.75		
1713	480			12.53	5.04	7.68		
1813	540			12.59	5.10	7.61		
1913	600			12.65	5.16	7.54		

Time	Elapsed Time (t)	Manometer Reading (in.)	Drawdown or Recovery (ft.)				
			Pumped	Obs. 1	~~Obs. 2~~	Obs. 3 RECOVERY	Obs. 4
2013	660			12.70	5.21		
2113	720			12.77	5.28		
2213	780			12.79	5.30		
2313	840			* PUMP SHUT OFF			
0013	900			BY ITSELF			
0113	960						
0213	1020						
0313	1080						
0413	1140						
0513	1200						
0613	1260						
0713	1320						
0813	1380						
0913	1440						

PUMPING TEST DATA

Location: RTA-9I Date: 5/9

Pumped Well:

Depth 80 ft. Casing To 50 ft. Diameter 6 in.

Casing 0 to 50 ft. Diameter 6 in.

Disc. Pipe Diameter 4 in. Orifice Diameter 2 in.

Q 90 gpm.

Observation Wells:

Depth: 1= 80 ft. 2= 180 ft. 3=_____ft. 4=_____ft.

Casing Diameter: 1= 2 in. 2= 2 in. 3=_____in. 4=_____in.

Casing To: 1= 50 ft. 2= 150 ft. 3=_____ft. 4=_____ft.

Dist.(r): 1= 70.5 ft. 2= 6.5 ft. 3=_____ft. 4=_____ft.

Screen: 1= 50 to 80 ft. 2=_____to_____ft. 3=_____to_____ft.

Screen Diameter: 1= 2" in. 2=_____in. 3=_____in. 4=_____in.

Time	Elapsed Time (t)	Manometer Reading (in.)		Drawdown or Recovery (ft.)				
				Pumped	Obs 1	Obs. 2	Obs. 3	Obs. 4
913	0	In. H_2O	Q gpm	6.67	—			
	15s			14.94	8.27			
	30s			15.32	8.65			
	45s			15.70	9.03			
0914	1mi			16.00	9.33			
	1.5			16.27	9.60			
0915	2.0			16.53	9.86			
	2.5			16.70	10.03			
0916	3.0			16.79	10.12			
	3.5			16.94	10.27			
0917	4.0			16.99	10.32			
	4.5			17.07	10.40			

RTA-9I

Time	Elapsed Time (t)	Manometer Reading (in.)	gpm	Drawdown or Recovery (ft.) Pumped	Obs. 1	Obs. 2	Obs. 3	Obs. 4
0918	5.0	in.	Q	17.16	10.49			
0919	6			17.28	10.61	9.75		
0920	7			17.38	10.71	9.50		
0921	8			17.47	10.80	9.36		
0922	9			17.54	10.87	9.24		
0923	10			17.59	10.92	9.20		
0924	11			17.65	10.98	9.15		
0925	12			17.76	11.07	9.08		
0926	13			17.76	11.07	9.05		
0927	14			17.80	11.11	8.99		
0928	15			17.92	11.23	8.96		
0933	20			18.17	11.48	8.84		
0938	25			18.33	11.64	8.67		
0943	30			18.40	11.71	8.62		
0948	35			18.57	11.88	8.48		
0953	40			18.65	11.96	8.39		
0958	45			18.78	12.09	8.30		
1003	50			18.87	12.18	8.25		
1013	60			18.92	12.23	8.08		
1023	70			19.02	12.33	8.00		
1033	80			19.12	12.43	7.94		
1043	90			19.18	12.49	7.85		
1113	120			19.37	12.68	7.59		
1143	150			19.50	12.81	7.44		
1213	180			19.60	12.91	7.31		
1243	210			19.69	13.00	7.19		
1313	240			19.75	13.06	7.11		
1413	300			19.84	13.15	6.96		
1513	360			19.95	13.26	6.85		
1613	420			20.07	13.38	6.77		
1713	480			20.11	13.42	6.71		
1813	540			20.14	13.45	6.67		
1913	600			20.20	13.51	6.61		

RTA-9I

Time	Elapsed Time (t)	Manometer Reading (in.)	Drawdown or Recovery (ft.)				
			Pumped	~~Obs. 1~~ △	~~Obs. 2~~ RECOVERY	~~Obs. 3~~ △	Obs. 4
2013	660		20.24	13.55			
2113	720		20.27	13.58			
2213	780						
2313	840						
0013	900						
0113	960						
0213	1020						
0313	1080						
0413	1140						
0513	1200						
0613	1260						
0713	1320						
0813	1380						
0913	1440						

HENDRY CO. RTA-91
Run 1
05/09/84

SE200A DATA
constant rate test

TRANSDUCER TABLE

Input 1: OB #1
  Transducer s/n: 38
  Scale factor: 9.96
  Initial level: 7.27 feet

  FAST DATA

Input 2: OB #2
  Transducer s/n: 171
  Scale factor: 49.38
  Initial level: 6.72 feet

Input 3: PUMPED WELL
  Transducer s/n: 113
  Scale factor: 9.96
  Initial level: 6.67 feet

PUMP SCHEDULE

Drawdown for 1440 min
Pump at 95 GPM

Recovery for 600 min

SAMPLING SCHEDULE

0-10	sec	@	1 sec
10-60	sec	@	5 sec
1-10	min	@	20 sec
10-100	min	@	2 min
100-1000	min	@	20 min
1000-10000	min	@	60 min
10000-99999	min	@	200 min

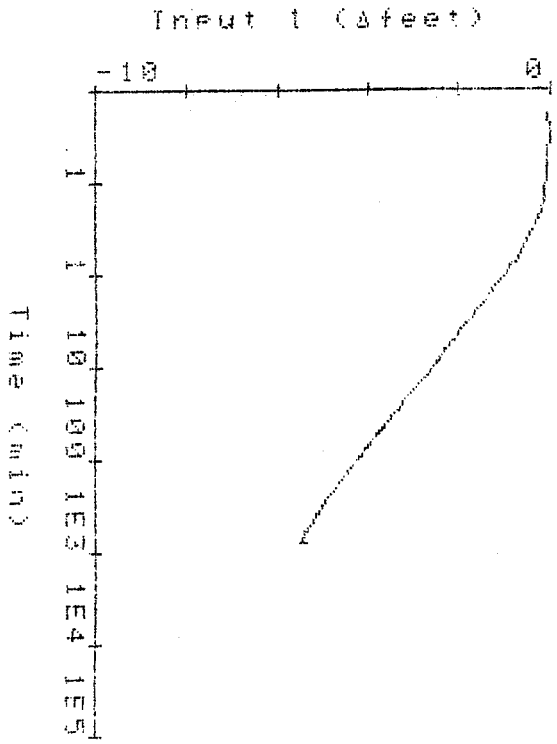
DRAWDOWN REPORT

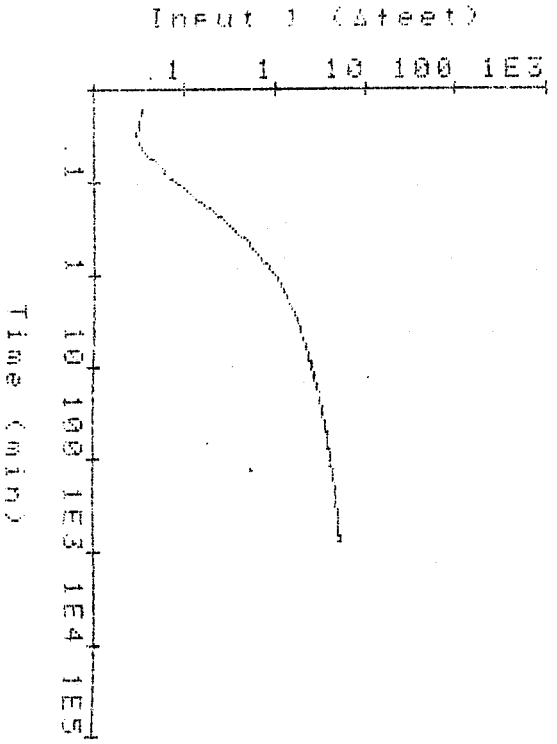
Started at 0913
Lasted 784.73 min

Input 1 (feet):

Time	ET (min)	level	Δlevel
0913	0.000	7.27	0.00
0913	0.017	7.30	-0.03
0913	0.034	7.30	-0.03
0913	0.050	7.31	-0.04
0914	0.067	7.32	-0.05
0914	0.084	7.33	-0.06
0914	0.100	7.35	-0.08
0914	0.117	7.37	-0.10
0914	0.134	7.39	-0.12
0914	0.150	7.41	-0.13
0914	0.167	7.42	-0.15
0914	0.357	7.54	-0.27
0914	0.341	7.64	-0.37
0914	0.424	7.74	-0.47
0914	0.507	7.83	-0.56
0914	0.591	7.91	-0.64
0914	0.674	7.99	-0.72
0914	0.757	8.06	-0.79
0914	0.841	8.12	-0.85
0914	0.924	8.18	-0.91
0914	1.007	8.24	-0.97
0915	1.381	8.44	-1.17
0915	1.714	8.59	-1.32
0915	2.047	8.72	-1.45
0916	2.381	8.82	-1.55
0916	2.714	8.91	-1.64
0916	3.047	8.99	-1.72
0917	3.381	9.06	-1.79
0917	3.714	9.13	-1.86
0917	4.047	9.19	-1.92
0918	4.381	9.25	-1.98
0918	4.714	9.30	-2.03
0918	5.047	9.35	-2.08
0919	5.381	9.40	-2.13
0919	5.714	9.44	-2.17
0919	6.047	9.48	-2.21
0920	6.381	9.52	-2.25
0920	6.714	9.55	-2.28
0920	7.047	9.59	-2.32
0921	7.381	9.62	-2.35
0921	7.714	9.65	-2.38
0921	8.047	9.69	-2.42
0922	8.381	9.71	-2.44
0922	8.714	9.74	-2.47
0922	9.047	9.77	-2.50
0923	9.381	9.79	-2.52
0923	9.714	9.82	-2.55
0923	10.047	9.85	-2.58
0926	12.135	9.98	-2.71
0928	14.135	10.09	-2.82
0930	16.135	10.20	-2.93
0932	18.135	10.28	-3.01
0934	20.135	10.37	-3.10
0936	22.135	10.43	-3.16
0938	24.135	10.49	-3.22
0940	26.118	10.55	-3.28
0944	30.063	10.65	-3.38
0946	32.208	10.70	-3.43
0948	34.065	10.74	-3.47
0950	36.098	10.78	-3.51
0952	38.098	10.82	-3.55
0954	40.098	10.85	-3.58
0956	42.098	10.89	-3.62
0958	44.098	10.93	-3.66
1000	46.098	10.96	-3.69
1002	48.098	10.98	-3.71
1004	50.098	11.01	-3.74
1006	52.098	11.04	-3.77
1008	54.120	11.06	-3.79
1010	56.062	11.09	-3.82
1012	58.120	11.11	-3.84
1014	60.120	11.13	-3.86
1016	62.113	11.16	-3.89
1018	64.113	11.18	-3.91
1020	66.113	11.21	-3.93
1022	68.113	11.23	-3.96
1024	70.113	11.25	-3.98
1026	72.113	11.27	-4.00
1028	74.113	11.29	-4.02
1030	76.113	11.31	-4.03
1032	78.408	11.33	-4.06
1034	80.345	11.35	-4.08
1036	82.082	11.36	-4.09
1038	84.082	11.37	-4.10
1040	86.082	11.39	-4.12
1042	88.082	11.41	-4.14
1044	90.082	11.42	-4.15
1046	92.082	11.44	-4.17
1048	94.082	11.45	-4.18
1050	96.082	11.47	-4.20
1052	98.082	11.49	-4.22
1054	100.080	11.50	-4.23
1114	120.250	11.63	-4.36
1134	140.250	11.73	-4.46
1154	160.230	11.84	-4.57
1214	180.220	11.92	-4.65
1234	200.220	11.98	-4.71
1254	220.220	12.05	-4.78
1314	240.700	12.10	-4.83
1334	260.150	12.15	-4.88
1354	280.150	12.20	-4.93
1414	300.150	12.23	-4.96
1434	320.230	12.26	-4.99
1454	340.230	12.29	-5.02
1514	360.300	12.32	-5.05
1534	380.200	12.35	-5.08
1554	400.200	12.37	-5.10
1614	420.450	12.40	-5.13
1634	440.220	12.45	-5.18
1654	460.150	12.48	-5.21
1714	480.150	12.48	-5.21
1734	500.150	12.47	-5.20
1754	520.150	12.53	-5.26
1814	540.150	12.55	-5.28
1834	560.150	12.57	-5.30
1854	580.150	12.59	-5.32
1914	600.200	12.60	-5.33
1934	620.200	12.62	-5.35
1954	640.200	12.64	-5.37
2014	660.200	12.65	-5.38
2034	680.200	12.68	-5.40
2054	700.200	12.69	-5.42
2114	720.200	12.70	-5.43
2134	740.200	12.72	-5.45
2154	760.200	12.74	-5.47
2214	760.200	12.75	-5.48
2218	784.730	12.57	-5.30

Average level: 12.17



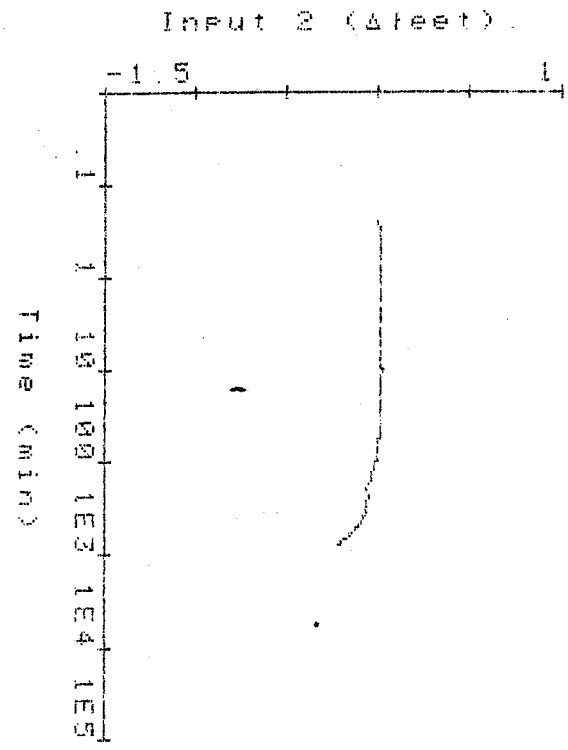


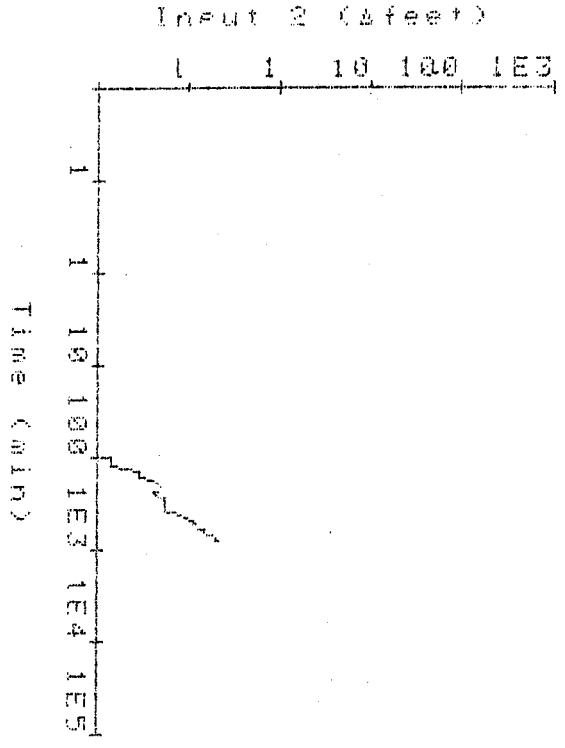
Input 2 (feet):

Time	ET (min)	level	Δlevel
0913	0.000	6.72	0.00
0914	0.257	6.72	0.00
0914	0.341	6.71	0.01
0914	0.424	6.71	0.01
0914	0.507	6.71	0.01
0914	0.591	6.71	0.01
0914	0.674	6.71	0.01
0914	0.757	6.71	0.01
0914	0.841	6.71	0.01
0914	0.924	6.71	0.01
0914	1.007	6.71	0.01
0915	1.381	6.71	0.01
0915	1.714	6.71	0.01
0915	2.047	6.71	0.01
0916	2.381	6.71	0.01
0916	2.714	6.71	0.01
0916	3.047	6.71	0.01
0917	3.381	6.71	0.01
0917	3.714	6.71	0.01
0917	4.047	6.71	0.01
0918	4.381	6.71	0.01
0918	4.714	6.71	0.01
0918	5.047	6.71	0.01
0919	5.381	6.71	0.01
0919	5.714	6.71	0.01
0919	6.047	6.71	0.01
0920	6.381	6.71	0.01
0920	6.714	6.71	0.01
0920	7.047	6.71	0.01
0921	7.381	6.71	0.01
0921	7.714	6.71	0.01
0921	8.047	6.71	0.01
0922	8.381	6.71	0.01
0922	8.714	6.71	0.01
0922	9.047	6.71	0.01
0923	9.381	6.71	0.01
0923	9.714	6.71	0.01
0923	10.047	6.69	0.03
0926	12.135	6.71	0.01
0928	14.135	6.71	0.01
0930	16.135	6.71	0.01
0932	18.135	6.71	0.01
0934	20.135	6.71	0.01
0936	22.135	6.71	0.01
0938	24.135	6.71	0.01
0940	26.118	6.71	0.01
0942	28.397	6.71	0.01
0944	30.063	6.71	0.01
0946	32.208	6.71	0.01
0948	34.065	6.71	0.01
0950	36.098	6.71	0.01
0952	38.098	6.71	0.01
0954	40.098	6.71	0.01
0956	42.098	6.71	0.01
0958	44.098	6.71	0.01
1000	46.098	6.71	0.01
1002	48.098	6.71	0.01
1004	50.098	6.71	0.01
1006	52.098	6.71	0.01
1008	54.120	6.71	0.01
1010	56.062	6.72	0.00
1012	58.120	6.71	0.01
1014	60.120	6.72	0.00
1016	62.113	6.72	0.00
1018	64.113	6.72	0.00
1020	66.113	6.72	0.00
1022	68.113	6.72	0.00
1024	70.113	6.72	0.00

1028	74.113	6.72	0.00
1030	76.113	6.72	0.00
1032	78.408	6.72	0.00
1034	80.345	6.72	0.00
1036	82.082	6.72	0.00
1038	84.082	6.72	0.00
1040	86.082	6.72	0.00
1042	88.082	6.72	0.00
1044	90.082	6.72	0.00
1046	92.082	6.72	0.00
1048	94.082	6.72	0.00
1050	96.082	6.72	0.00
1052	98.082	6.72	0.00
1054	100.080	6.73	-0.01
1114	120.250	6.73	-0.01
1134	140.250	6.75	-0.03
1154	160.230	6.75	-0.03
1214	180.220	6.76	-0.04
1234	200.220	6.78	-0.06
1254	220.220	6.78	-0.06
1314	240.700	6.76	-0.04
1334	260.150	6.76	-0.04
1354	280.150	6.78	-0.06
1414	300.150	6.78	-0.06
1434	320.230	6.78	-0.06
1454	340.230	6.78	-0.06
1514	360.300	6.78	-0.06
1534	380.200	6.78	-0.06
1554	400.200	6.79	-0.07
1614	420.450	6.81	-0.09
1634	440.220	6.82	-0.10
1654	460.150	6.82	-0.10
1714	480.150	6.82	-0.10
1734	500.150	6.83	-0.11
1754	520.150	6.83	-0.11
1814	540.150	6.85	-0.13
1834	560.150	6.85	-0.13
1854	580.150	6.85	-0.13
1914	600.200	6.86	-0.14
1934	620.200	6.88	-0.16
1954	640.200	6.88	-0.16
2014	660.200	6.88	-0.16
2034	680.200	6.89	-0.17
2054	700.200	6.91	-0.19
2114	720.200	6.91	-0.19
2134	740.200	6.92	-0.20
2154	760.200	6.92	-0.20
2214	780.200	6.92	-0.20
2218	784.730	6.93	-0.21

Average level: 6.81

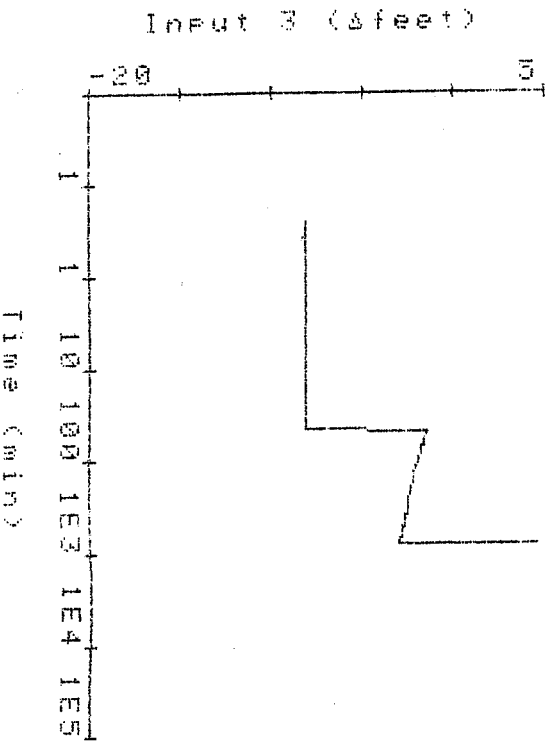


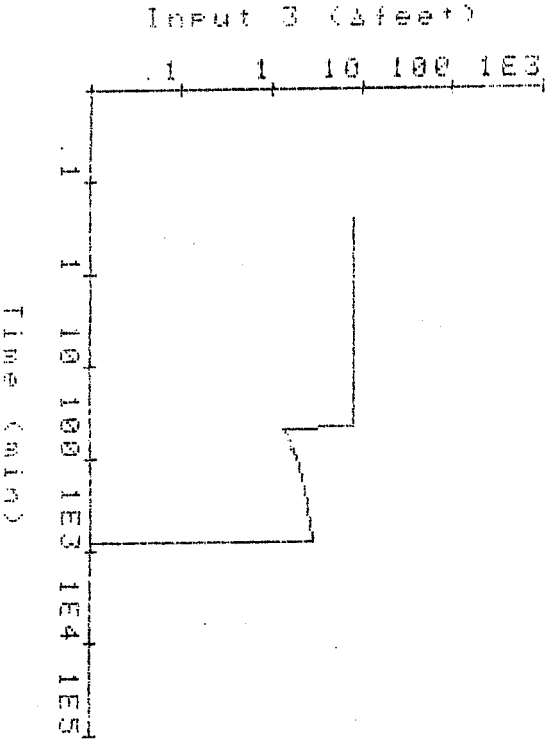


Input 3 (feet):

Time	ET (min)	level	Δlevel
0913	0.000	6.67	0.00
0914	0.257	14.75	-8.08
0914	0.341	14.74	-8.07
0914	0.424	14.74	-8.07
0914	0.507	14.75	-8.08
0914	0.591	14.75	-8.08
0914	0.674	14.75	-8.08
0914	0.757	14.75	-8.08
0914	0.841	14.75	-8.08
0914	0.924	14.75	-8.08
0914	1.007	14.75	-8.08
0915	1.381	14.75	-8.08
0915	1.714	14.75	-8.08
0915	2.047	14.75	-8.08
0916	2.381	14.75	-8.08
0916	2.714	14.75	-8.08
0916	3.047	14.75	-8.08
0917	3.381	14.75	-8.08
0917	3.714	14.75	-8.08
0917	4.047	14.75	-8.08
0918	4.381	14.75	-8.08
0918	4.714	14.75	-8.08
0918	5.047	14.75	-8.08
0919	5.381	14.75	-8.08
0919	5.714	14.75	-8.08
0919	6.047	14.75	-8.08
0920	6.381	14.75	-8.08
0920	6.714	14.75	-8.08
0920	7.047	14.75	-8.08
0921	7.381	14.75	-8.08
0921	7.714	14.75	-8.08
0921	8.047	14.75	-8.08
0922	8.381	14.75	-8.08
0922	8.714	14.75	-8.08
0922	9.047	14.74	-8.07
0923	9.381	14.74	-8.07
0923	9.714	14.74	-8.07
0923	10.047	14.74	-8.07
0926	12.135	14.74	-8.07
0928	14.135	14.74	-8.07
0930	16.135	14.73	-8.06
0932	18.135	14.73	-8.06
0934	20.135	14.73	-8.06
0936	22.135	14.73	-8.06
0938	24.135	14.73	-8.06
0940	26.116	14.73	-8.06
0942	28.397	14.73	-8.06
0944	30.063	14.73	-8.06
0946	32.208	14.72	-8.05
0948	34.065	14.72	-8.05
0950	36.098	14.74	-8.07
0952	38.098	14.74	-8.07
0954	40.098	14.74	-8.07
0956	42.098	14.75	-8.08
0958	44.098	14.75	-8.08
1000	46.098	14.75	-8.08
1002	48.098	8.05	-1.38
1004	50.098	8.08	-1.41
1006	52.098	8.12	-1.45
1008	54.120	8.13	-1.46
1010	56.062	8.16	-1.49
1012	58.120	8.18	-1.51
1014	60.120	8.21	-1.54
1016	62.113	8.23	-1.56
1018	64.113	8.25	-1.58
1020	66.113	8.28	-1.61
1022	68.113	8.29	-1.62
1024	70.113	8.31	-1.64
1026	72.113	8.32	-1.65
1028	74.113	8.33	-1.66
1030	76.113	8.35	-1.68
1032	78.408	8.38	-1.71
1034	80.345	8.40	-1.73
1036	82.082	8.41	-1.74
1038	84.082	8.43	-1.76
1040	86.082	8.44	-1.77
1042	88.082	8.47	-1.79
1044	90.082	8.48	-1.81
1046	92.082	8.49	-1.82
1048	94.082	8.50	-1.83
1050	96.082	8.52	-1.85
1052	98.082	8.54	-1.87
1054	100.080	8.55	-1.88
1114	120.250	8.68	-2.01
1134	140.250	8.78	-2.11
1154	160.230	8.85	-2.18
1214	180.220	8.91	-2.24
1234	200.220	8.99	-2.32
1254	220.220	9.05	-2.38
1314	240.700	9.07	-2.40
1334	260.150	9.11	-2.44
1354	280.150	9.16	-2.49
1414	300.150	9.18	-2.51
1434	320.230	9.18	-2.51
1454	340.230	9.19	-2.52
1514	360.300	9.22	-2.55
1534	380.200	9.25	-2.58
1554	400.200	9.27	-2.60
1614	420.450	9.30	-2.63
1634	440.220	9.34	-2.67
1654	460.150	9.37	-2.70
1714	480.150	9.37	-2.70
1734	500.150	9.33	-2.66
1754	520.150	9.30	-2.71
1814	540.150	9.40	-2.73
1834	560.150	9.42	-2.75
1854	580.150	9.46	-2.79
1914	600.200	9.45	-2.78
1934	620.200	9.49	-2.82
1954	640.200	9.51	-2.84
2014	660.200	9.53	-2.86
2034	680.200	9.54	-2.87
2054	700.200	9.56	-2.89
2114	720.200	9.58	-2.91
2134	740.200	9.59	-2.92
2154	760.200	9.61	-2.94
2214	780.200	9.63	-2.96
2218	784.730	2.06	4.62

Average level: 9.50





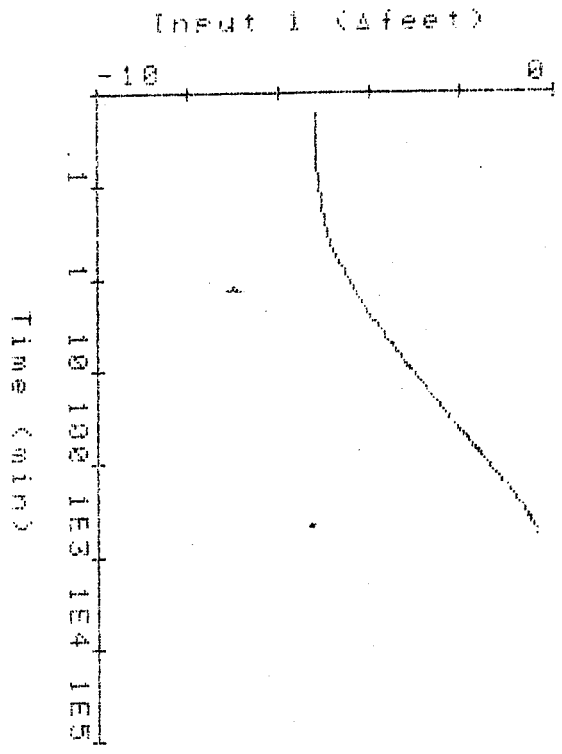
RECOVERY REPORT

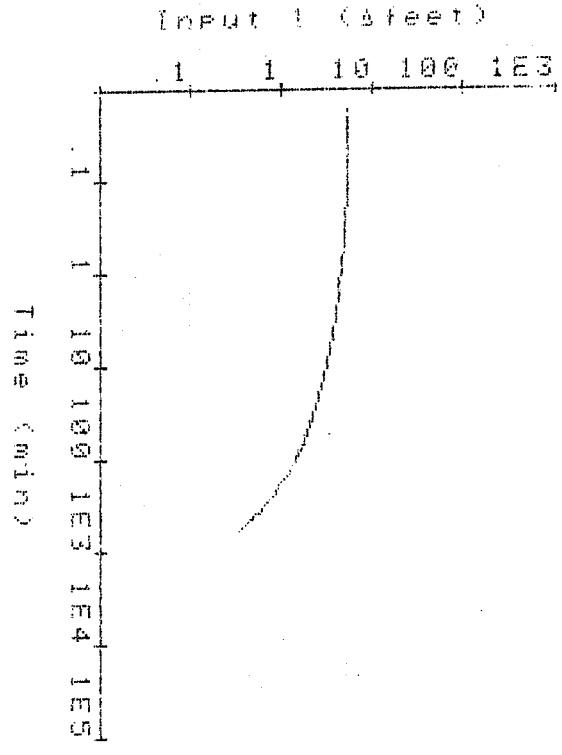
Started at 2218
Lasted 600.13 min

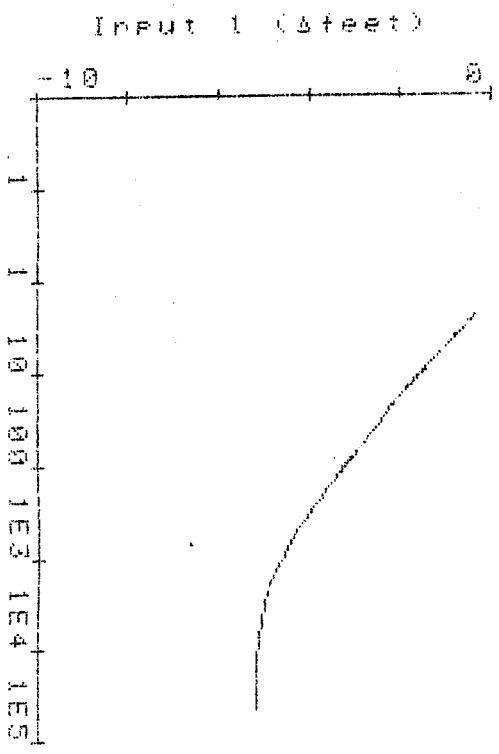
Input 1 (feet):

Time	ET (min)	level	Δlevel
2218	0.017	12.48	-5.21
2218	0.034	12.46	-5.19
2218	0.050	12.45	-5.18
2218	0.067	12.43	-5.16
2218	0.084	12.41	-5.14
2218	0.100	12.40	-5.13
2218	0.117	12.38	-5.11
2218	0.134	12.36	-5.09
2218	0.150	12.35	-5.08
2218	0.167	12.33	-5.06
2218	0.257	12.25	-4.98
2219	0.340	12.18	-4.91
2219	0.424	12.12	-4.85
2219	0.507	12.06	-4.79
2219	0.590	12.00	-4.73
2219	0.674	11.95	-4.68
2219	0.757	11.91	-4.64
2219	0.840	11.86	-4.59
2219	0.924	11.82	-4.55
2219	1.007	11.78	-4.51
2220	1.380	11.62	-4.35
2220	1.713	11.51	-4.24
2220	2.046	11.41	-4.14
2221	2.380	11.32	-4.05
2221	2.713	11.24	-3.97
2221	3.046	11.17	-3.90
2222	3.380	11.10	-3.83
2222	3.713	11.05	-3.78
2222	4.046	10.97	-3.70
2223	4.380	10.94	-3.67
2223	4.713	10.89	-3.62
2223	5.046	10.84	-3.57
2224	5.380	10.80	-3.53
2224	5.713	10.76	-3.49
2224	6.046	10.72	-3.45
2225	6.380	10.69	-3.41
2225	6.713	10.65	-3.38
2225	7.046	10.61	-3.34
2226	7.380	10.58	-3.31
2226	7.713	10.55	-3.28
2226	8.047	10.52	-3.25
2227	8.380	10.49	-3.22
2227	8.713	10.48	-3.20
2227	9.047	10.44	-3.17
2228	9.380	10.41	-3.14
2228	9.713	10.39	-3.12
2228	10.046	10.36	-3.09
2230	12.146	10.22	-2.95
2232	14.146	10.11	-2.84
2234	16.146	10.02	-2.75
2236	18.147	9.94	-2.67
2238	20.152	9.86	-2.59
2240	22.162	9.79	-2.52
2242	24.162	9.73	-2.46

2246	28.162	9.62	-2.35
2248	30.162	9.58	-2.31
2250	32.162	9.53	-2.26
2252	34.162	9.49	-2.22
2254	36.162	9.45	-2.18
2256	38.162	9.41	-2.14
2258	40.162	9.37	-2.10
2300	42.162	9.34	-2.07
2302	44.162	9.30	-2.03
2304	46.162	9.27	-2.00
2306	48.162	9.24	-1.97
2308	50.162	9.21	-1.94
2310	52.162	9.18	-1.91
2312	54.162	9.15	-1.88
2315	56.768	9.12	-1.85
2316	58.133	9.11	-1.84
2319	60.403	9.08	-1.81
2321	62.502	9.06	-1.79
2322	64.080	9.04	-1.77
2324	66.080	9.02	-1.75
2326	68.080	8.99	-1.72
2328	70.080	8.97	-1.70
2330	72.080	8.95	-1.68
2332	74.080	8.93	-1.66
2334	76.080	8.91	-1.64
2336	78.080	8.89	-1.62
2338	80.080	8.87	-1.60
2340	82.080	8.86	-1.59
2342	84.080	8.84	-1.57
2344	86.080	8.83	-1.56
2346	88.080	8.81	-1.54
2348	90.080	8.79	-1.52
2350	92.080	8.77	-1.50
2352	94.080	8.75	-1.48
2354	96.080	8.74	-1.47
2356	98.080	8.73	-1.46
2358	100.080	8.71	-1.44
0018	120.250	8.58	-1.31
0038	140.250	8.47	-1.20
0058	160.250	8.38	-1.11
0118	180.250	8.30	-1.03
0138	200.250	8.23	-0.96
0158	220.250	8.16	-0.89
0218	240.250	8.11	-0.84
0238	260.250	8.05	-0.78
0258	280.250	8.01	-0.74
0318	300.250	7.96	-0.69
0338	320.250	7.92	-0.65
0358	340.250	7.89	-0.62
0418	360.250	7.86	-0.59
0438	380.250	7.82	-0.55
0458	400.250	7.79	-0.52
0518	420.250	7.77	-0.50
0538	440.250	7.75	-0.48
0558	460.250	7.72	-0.45
0618	480.250	7.70	-0.43
0638	500.250	7.68	-0.41
0658	520.250	7.67	-0.40
0718	540.250	7.65	-0.38
0738	560.250	7.63	-0.36
0758	580.250	7.62	-0.35
0818	600.130	7.61	-0.34

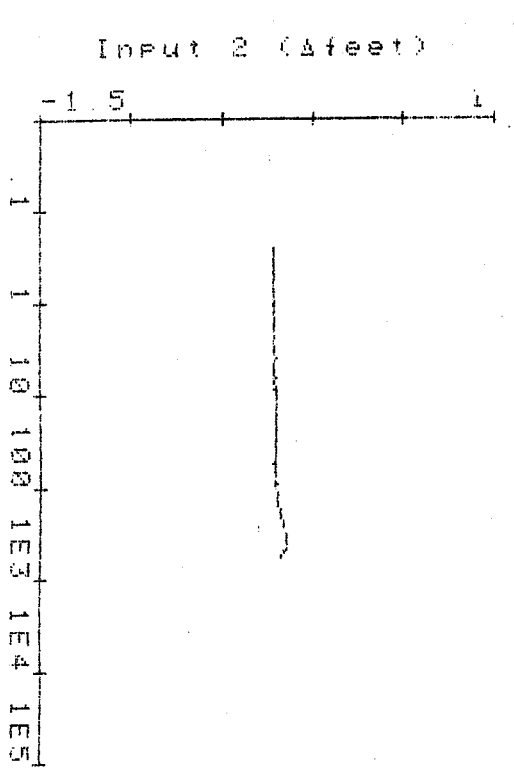


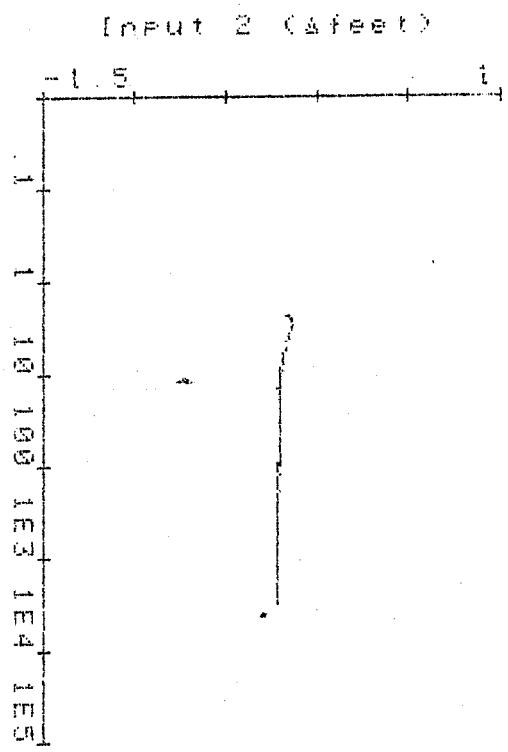


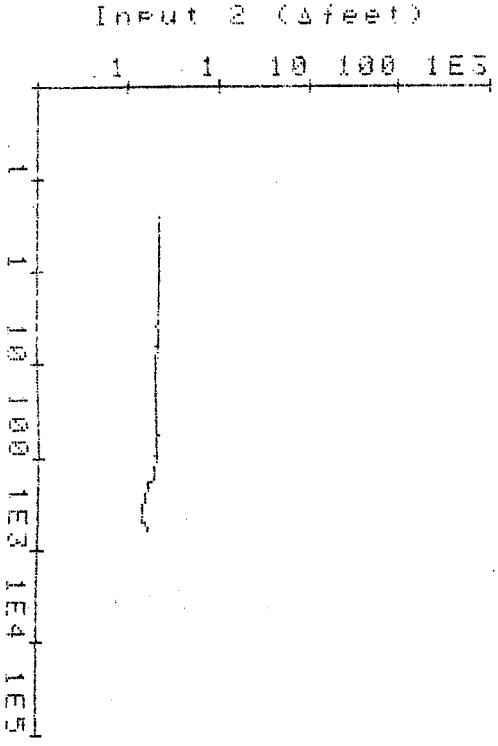


Input 2 (feet):

Time	ET (min)	level	△level
2218	0.257	6.93	-0.21
2219	0.340	6.93	-0.21
2219	0.424	6.93	-0.21
2219	0.507	6.93	-0.21
2219	0.590	6.93	-0.21
2219	0.674	6.93	-0.21
2219	0.757	6.93	-0.21
2219	0.840	6.93	-0.21
2219	0.924	6.93	-0.21
2219	1.007	6.93	-0.21
2220	1.380	6.93	-0.21
2220	1.713	6.93	-0.21
2220	2.046	6.93	-0.21
2221	2.380	6.93	-0.21
2221	2.713	6.93	-0.21
2221	3.046	6.93	-0.21
2222	3.380	6.93	-0.21
2222	3.713	6.93	-0.21
2222	4.046	6.92	-0.20
2223	4.380	6.93	-0.21
2223	4.713	6.93	-0.21
2223	5.046	6.93	-0.21
2224	5.380	6.93	-0.21
2224	5.713	6.93	-0.21
2224	6.046	6.93	-0.21
2225	6.380	6.92	-0.20
2225	6.713	6.93	-0.21
2225	7.046	6.93	-0.21
2226	7.380	6.93	-0.21
2226	7.713	6.93	-0.21
2226	8.047	6.92	-0.20
2227	8.380	6.93	-0.21
2227	8.713	6.92	-0.20
2227	9.047	6.92	-0.20
2228	9.380	6.92	-0.20
2230	12.146	6.92	-0.20
2232	14.146	6.92	-0.20
2234	16.146	6.92	-0.20
2236	18.147	6.92	-0.20
2238	20.162	6.92	-0.20
2240	22.162	6.92	-0.20
2242	24.162	6.92	-0.20
2244	26.162	6.92	-0.20
2246	28.162	6.92	-0.20
2248	30.162	6.92	-0.20
2250	32.162	6.92	-0.20
2252	34.162	6.92	-0.20
2254	36.162	6.92	-0.20
2256	38.162	6.92	-0.20
2258	40.162	6.92	-0.20
2300	42.162	6.92	-0.20
2302	44.162	6.92	-0.20
2304	46.162	6.92	-0.20
2306	48.162	6.92	-0.20
2308	50.162	6.92	-0.20
2310	52.162	6.92	-0.20
2312	54.162	6.92	-0.20
2315	56.768	6.93	-0.21
2316	58.133	6.92	-0.20
2319	60.403	6.92	-0.20
2321	62.502	6.92	-0.20
2322	64.080	6.92	-0.20
2324	66.080	6.92	-0.20
2326	68.080	6.92	-0.20
2328	70.080	6.92	-0.20
2330	72.080	6.92	-0.20
2332	74.080	6.92	-0.20
2334	76.080	6.92	-0.20
2336	78.080	6.92	-0.20
2338	80.080	6.92	-0.20
2340	82.080	6.92	-0.20
2342	84.080	6.92	-0.20
2344	86.080	6.92	-0.20
2346	88.080	6.92	-0.20
2348	90.080	6.92	-0.20
2350	92.080	6.91	-0.19
2352	94.080	6.92	-0.20
2354	96.080	6.92	-0.20
2356	98.080	6.92	-0.20
2358	100.080	6.92	-0.20
0018	120.250	6.91	-0.19
0038	140.250	6.91	-0.19
0058	160.250	6.91	-0.19
0118	180.250	6.89	-0.17
0138	200.250	6.89	-0.17
0158	220.250	6.89	-0.17
0218	240.250	6.88	-0.16
0238	260.250	6.88	-0.16
0258	280.250	6.88	-0.16
0318	300.250	6.88	-0.16
0338	320.250	6.86	-0.14
0358	340.250	6.86	-0.14
0418	360.250	6.86	-0.14
0438	380.250	6.86	-0.14
0458	400.250	6.86	-0.14
0518	420.250	6.86	-0.14
0538	440.250	6.86	-0.14
0558	460.250	6.86	-0.14
0618	480.250	6.88	-0.16
0638	500.250	6.86	-0.14
0658	520.250	6.88	-0.16
0718	540.250	6.88	-0.16
0738	560.250	6.89	-0.17
0758	580.250	6.89	-0.17
0818	600.130	6.89	-0.17



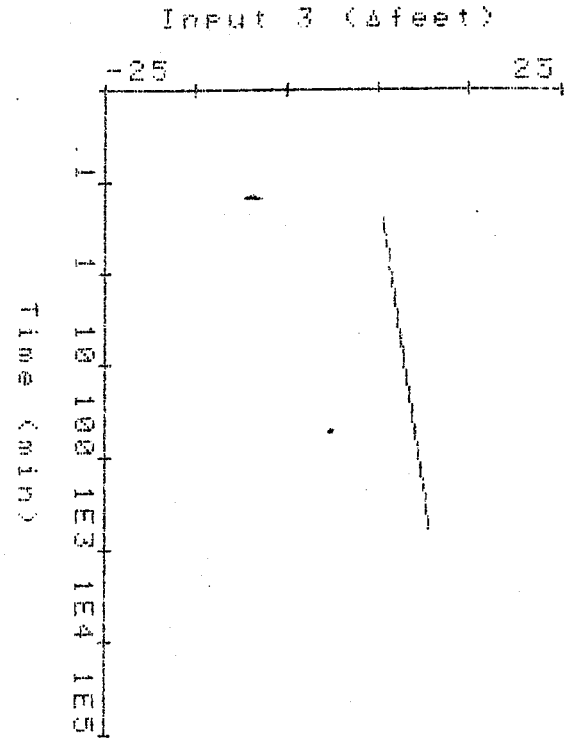


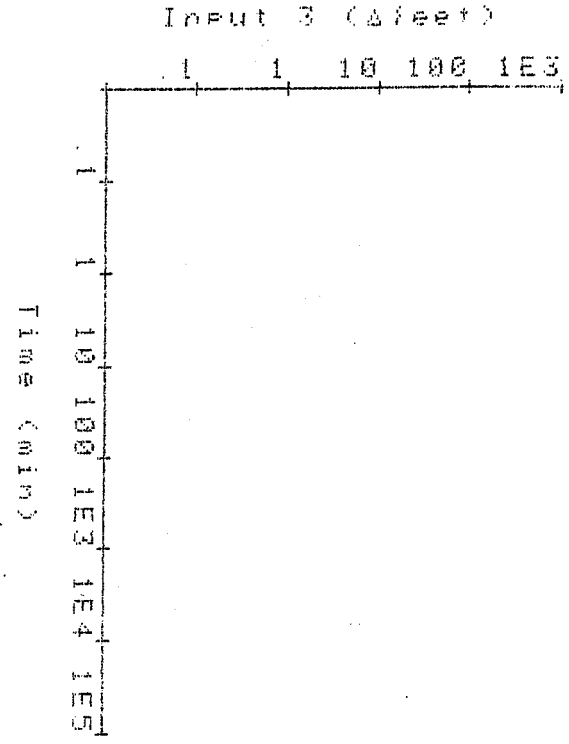


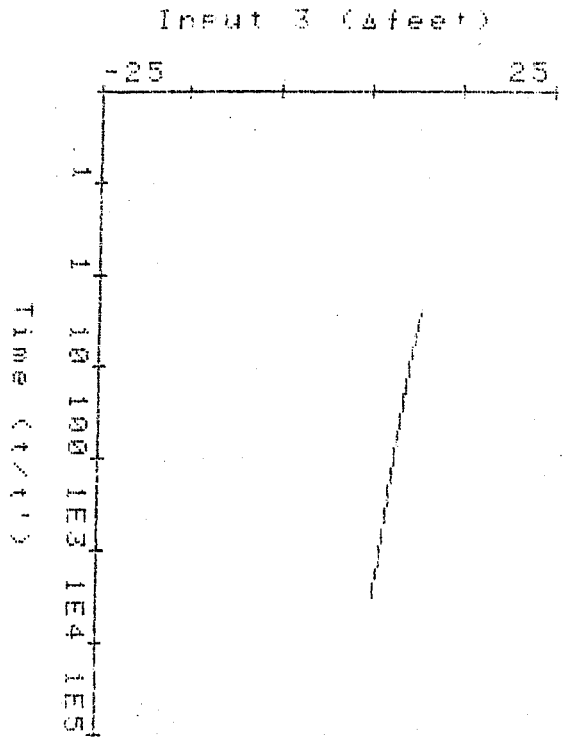
Input 3 (feet):

Time	ET (min)	level	Δlevel
2218	0.257	1.00	5.67
2219	0.340	0.90	5.77
2219	0.424	0.77	5.90
2219	0.507	0.66	6.01
2219	0.590	0.56	6.11
2219	0.674	0.49	6.18
2219	0.757	0.42	6.25
2219	0.840	0.35	6.32
2219	0.924	0.29	6.38
2219	1.007	0.24	6.43
2220	1.380	0.04	6.63
2220	1.713	-0.10	6.77
2220	2.046	-0.21	6.88
2221	2.380	-0.31	6.98
2221	2.713	-0.39	7.06
2221	3.046	-0.47	7.14
2222	3.380	-0.54	7.21
2222	3.713	-0.60	7.27
2222	4.046	-0.66	7.33
2223	4.380	-0.71	7.38
2223	4.713	-0.76	7.43
2223	5.046	-0.81	7.48
2224	5.380	-0.85	7.52
2224	5.713	-0.89	7.56
2224	6.046	-0.93	7.60
2225	6.380	-0.97	7.64
2225	6.713	-1.01	7.68
2225	7.046	-1.04	7.71
2226	7.380	-1.08	7.75
2226	7.713	-1.10	7.77
2226	8.047	-1.14	7.81
2227	8.380	-1.16	7.83
2227	8.713	-1.19	7.86
2227	9.047	-1.22	7.89
2228	9.380	-1.24	7.91
2228	9.713	-1.27	7.94

2230	12.146	-1.43	8.10
2232	14.146	-1.53	8.20
2234	16.146	-1.61	8.28
2236	18.147	-1.69	8.36
2238	20.162	-1.75	8.42
2240	22.162	-1.81	8.48
2242	24.162	-1.85	8.52
2244	26.162	-1.90	8.57
2246	28.162	-1.94	8.61
2248	30.162	-1.97	8.64
2250	32.162	-2.01	8.68
2252	34.162	-2.05	8.72
2254	36.162	-2.10	8.77
2256	38.162	-2.14	8.81
2258	40.162	-2.17	8.84
2300	42.162	-2.21	8.88
2302	44.162	-2.24	8.91
2304	46.162	-2.27	8.94
2306	48.162	-2.30	8.97
2308	50.162	-2.33	9.00
2310	52.162	-2.36	9.03
2312	54.162	-2.39	9.06
2315	56.768	-2.42	9.09
2316	58.133	-2.44	9.11
2319	60.403	-2.47	9.14
2321	62.502	-2.49	9.16
2322	64.080	-2.51	9.18
2324	66.080	-2.53	9.20
2326	68.080	-2.55	9.22
2328	70.080	-2.59	9.25
2330	72.080	-2.60	9.27
2332	74.080	-2.62	9.29
2334	76.080	-2.64	9.31
2336	78.080	-2.66	9.33
2338	80.080	-2.67	9.34
2340	82.080	-2.69	9.36
2342	84.080	-2.71	9.38
2344	86.080	-2.73	9.40
2346	88.080	-2.74	9.41
2348	90.080	-2.76	9.43
2350	92.080	-2.78	9.45
2352	94.080	-2.80	9.47
2354	96.080	-2.81	9.48
2356	98.080	-2.83	9.50
2358	100.080	-2.84	9.51
0018	120.250	-2.97	9.64
0038	140.250	-3.08	9.75
0058	160.250	-3.17	9.84
0118	180.250	-3.26	9.93
0138	200.250	-3.33	10.00
0158	220.250	-3.39	10.06
0218	240.250	-3.45	10.12
0238	260.250	-3.50	10.17
0258	280.250	-3.55	10.22
0318	300.250	-3.59	10.26
0338	320.250	-3.63	10.30
0358	340.250	-3.67	10.34
0418	360.250	-3.70	10.37
0438	380.250	-3.73	10.40
0458	400.250	-3.76	10.43
0518	420.250	-3.79	10.46
0538	440.250	-3.81	10.48
0558	460.250	-3.83	10.50
0618	480.250	-3.85	10.52
0638	500.250	-3.87	10.54
0658	520.250	-3.89	10.56
0718	540.250	-3.90	10.57
0738	560.250	-3.91	10.58
0758	580.250	-3.92	10.59
0818	600.130	-3.93	10.60







SE200A manufactured by
In-situ, inc.
Laramie Wyomine