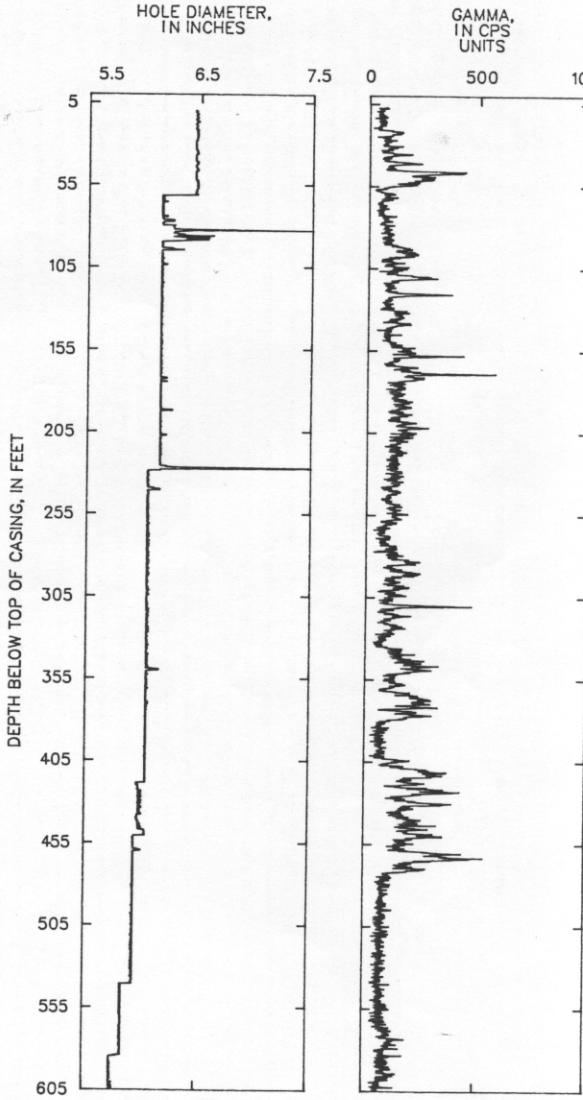
M18

731

P1197



WELL ID M18

STATIC

P1182

GIN (M-1) 4-20-92 (5)

DEPTH	TIME	cm/peak	RPM/min & SPEED	GPM	REMARKS
100	1642	-.90	150		
	1644	-5.75	1200		
	1646	-5.60	1200		
	1648	-5.55	1200	-0.55	-5.6/1200
150	1659	-5.72	1200		
	1700	-5.70	1200		
	1701	-5.95	1200		
	1703	-5.5	1200	-0.55	-5.6/1200
225	1715	-7.30	1200		
	1717	-6.60	1200		
	1719	-5.25	1200		
	1721	-5.0	1200		
	1723	-5.35	1200	-0.60	-5.2/1200
325	1740	-8.15	1200		APPROX.
	1741	-6.85	1200		
	1743	-6.65	1200		
	1745	-5.85	1200	?	INCON
360	1755	-5.85	1200		
	1757	-5.3	1200		
	1759	-6.1	1200	-0.53	-5.8/1200
400	1810	+1.05	150		
	1812	+8.10	1200		
	1814	+7.5	1200		

STATIC

P1182

M-1

DEPTH	TIME	CM-PK.	MM/min CSPD.	GPM	RMKS
400	1816	+7.3	1200	+0.40	+7.5/1200
500	1830	+7.7	1200		
	1835	+9.3	1200		
	1836	+10.6	1200		
	1837	+10.6	1200	+0.28	+10.6/1200
575	1855	+8.9	1200		
	1856	+7.9	1200		
	1857	+8.15	1200	+0.36	+8.2/1200

STATIC

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P1185

HOLE SIZE = 6.2+ M5 9-21-92 ⑥

DEPTH	TIME	CM-PEAK	MM/MIN CSPEED	GPM	REMARKS
90	0950	20	150	0?	No Peak
90	0955	35+	150	0?	No Peak
150	1010 1017	9	15	0?	No Pul
225	1035 1040	17 10	15	0?	No Pump
275	1055	+.34	150		
275	1100	+4.65	1200		
275	1101	+3.9	1200		
275	1102	+4.2	1200		
~~275~~	~~1102~~	~~+1.5~~	~~1200~~	~~FALS~~	~~TRIGGER~~
275	1105	+6.3	1200		
275	1107	+4.85	1200	+0.86	+4.5 / 1200
325	1120	+5.5	1200		
325	1122	+4.85	1200		
325	1124	+5.05	1200		
325	1126	+6.20	1200		
325	1128	+6.1	1200		
325	1130	+6.05	1200	+0.47	+6.1 / 1200
375	1145	+5.75	1200		
375	1147	+5.6	1200		
375	1149	+6.45	1200		
375	1151	+6.9	1200		
375	1154	+7.3	1200		
375	1200	+9.7	1200	?	INCON.

STATIC

3 OF 17

P1185

M-5 9-21-92

DEPTH	TIME	Cm-PEAK	MAX/min CSPEED	GPM	REMARKS
425	1212	+5.1	1200		
	1214	+5.4			
	1216	+5.2		+0.57	+5.2/1200
525	1235	+7.6	1200		
	1237	+6.15			
	1239	+11.05			TRUCK SHOOK
	1241	+13.9			
	1245	+14.7			
	1250	+20.6			INCON

STATIC

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P1186

6 IN DIA.		M-6		9-20-92	④
DEPTH	TIME	CM/PEAK	MM/MIN C SPEED	GPM	REMARKS
75	1145	+.4	150		
	1146	+2.85	1200		
	1148	+3.2	1200		
	1149	+3.25	1200	+1.10	3.2/1200
125	1200	50+	150		
	1210	6.4 ?	15	INCONCLUSIVE	
275	1235	?	15		
	1236	~7.2	1200		
	1237	+7.2			
	1238	+7.1		+0.40	7.1/1200
375	1257	+6.55	1200		
	1259	+8.9			
	1301	+6.8			
	1303	+10.45			
	1305	?			
	1307	?			
	1310	?		INCONCLUSIVE	
450	1330	+.95	15		
	1333	?	150		
	1336	—	150	INCONCLUSIVE	
525	1355		15		TO FAST
	1356	+16.4	1200		
	1358	+4.3	150		

STATIC
5 OF 17

P1186

M-6

DEPTH	TIME	MV/PEAK	CSPEED	GPM	REMARK
325	1400	4.7	150		
	1402	4.3	150	+0.05	+4.3/150
225	1450	+6.0	150		
	1452	6.0			
	1454	5.6			
	1456	5.9		+0.03	+5.9/150
175	1512	+5.0	150		
	1514	5.0	150		
	1516	4.9	150	+0.04	+4.9/150
135	1530	4.95	150		
	1532	4.7	150		
	1534	4.65	150	+0.04	+4.7/150
115	1541	2.15	150		
	1543	2.85			
	1545	4.9			
	1547	5.9			
	1549	6.8	150		INCONCLUSIVE

STATIC
6 of 17

P1194

HOLESIZE = 6" M 15 9-21-92 (7)

DEPTH	TIME	cm - PEAK	mm/min C SPEED	GPM	REMARKS
90	1425	+2.7	15	Ø	
	33	-1.2			
	36	-1.9			
	39	-1.8			
	42	-2.2			
	45	-2.25			
	48	-2.5			INCONCLUSIVE
130	1500	+.2	15		
	1502	+.2	15		
	1505	+.2	15		
	1510	+2.9	150		
	1512	+3.0	150		
	1514	+3.3	150		INCONCLUSIVE
160	1525	+1.95	150		
	1530	+2.75	150		
	1535	+2.85	150		
	1540	+3.2	150		INCONCLUSIVE
190	1555	27.85	1200		
	1600	4.15	150		
	1605	4.75	150		
	1611	4.75	150	+0.04	+4.7 / 150

STATIC

P1194

M-15 9-21-92

DEPTH	TIME	CM-PEAK	mm/min CREED	GPM	REMARKS
230	1625	+2.85	150		
	1630	+3.35			
	1635	+3.50			
	1640	+4.25			
	1650	+4.2		+0.05	+4.2/150

STATIC

8 OF 17

P1195

M-16 STATIC 10-1-92

DEPTH	TIME	mm/min CHART SPD.	CM-PEAK	GPM	REMARKS
95	0915	150	2.45		
	0918		3.30		
	0927		5.10		
	0932		7.60		
	0937		8.90		
	0942		9.25		
	0947		12.60		
	0952		13.50		
	0957		11.10		
	1002		18.80		
	1007		23.50		
	1012		23.00		
	1017		22.00	0.00	+22.5/150
160	1035	150	3.30		
	1040		5.30		
	1045		4.55		
	1050		5.50		
	1055		5.80	+0.03	+5.8/150
300	1120	150	3.50		
	1125		3.60		
	1130		4.90		
	1135		4.40		
	1140		5.00		

STATIC
9 OF 17

P1195

DEPTH	TIME	mm/min CHART SPD	cm-PEAK	GPM	REMARK
300	1142	150	6.00		
	1144		6.00		
	1146		6.50		
	1148		7.40		
	1150		8.00		
	1152		7.90		
	1154		7.65	+0.02	+7.85/150
400	1215	150	3.00		
	1217		3.45		
	1220		3.90		
	1225		3.55	+0.06	+3.5/150
455	1240	150	1.70		
	1245		1.75		
	1250		1.80	+0.13	+1.75/150
500	1300	150	1.25		
	1301	1200	11.55		
	1303	1200	14.40		
	1305	150	1.75		
	1310	150	1.75		
	1312	1200	13.20		
	1315	150	1.80	+0.13	+1.75/150

STATIC

P1195

M-16 10-1-92

DEPTH	TIME	mm/min CHART SPD	cm-PEAK	GPM	REMARKS
550	1326	1200	12.30		
	1327		12.65		
	1328		12.70		
	1333		13.55		
	1334		12.40		
	1335		12.20	+0.14	+12.3/1200

STATIC

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P1196

6 IN		M-17	9-19-92		②
DEPTH	TIME	cm/PEAK	MAXIMUM C SPEED	GPM	REMARKS
100	1347	-5.7	1200		
	1348	-5.7	1200		
	1349	-5.65	1200		
	1350	-5.7	1200	-.53	-5.7/1200
140	1359	-4.7	1200		
	1400	-5.5	↓		
	1401	-4.85			
	1403	-5.7			
	1405	-5.45		-.58	-5.5/1200
	1407	-5.3			
200	1422	-3.55			
	1423	-4.0	1200		
	1424	-3.75	1200		
	1430	-3.8	1200	-.88	-3.7/1200 .55
250	1446	+5.4	1200	DIRECTION △	
	1449	+5.85	1200		
	1451	+6.05	1200		
	1453	+6.85	1200		
	1457	+8.1	1200		
	1502	+8.85	1200	1503 SHEGZ	
	1510	+9.9	1200	?	
	1525	+14.10	1200	?	+.185
	1528	+16.4	1200	INCONCLUSIVE	
200	1537	-4.81	1200	REPEAT	
	1542	-3.95	1200	"	
	1545	-3.90	1200	"	-3.9/1200
250	1600	+6.8	1200		
	1605	+7.8	1200		

STATIC
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P1196

M-17

DEPTH	TIME	DIV	C SPEED		REMARKS
250	1610	+9.3	1200		
	1615	+10.75	1200		INCONCLUSIVE
275	1628	+8.75	1200		
	1630	+8.6			
	1632	+9.3			
	1634	+10.0			
	1636	+10.35			
	1638	+10.70			
	1640	+12.8			
	1645	+11.00			
	1650	+13.7			INCONCLUSIVE
325	1708	+6.6	1200		
	1710	+6.95			
	1712	+6.7			
	1715	+6.95		+0.42	+6.8/1200
375	1730	+6.3	1200		
	1732	+5.95			
	1734	+6.4		+0.46	+6.2/1200
425	1745	6.2	1200		
	1747	5.5			
	1749	5.7		+0.51	+5.7/1200

STATIC
13 of 17

P1196

③

M-17

DEPTH	TIME	CM/FLAK DIV	C SPEED	GPM	REMARKS
500	1800	+5.1	1200		
	1801	+6.3			
	1803	+8.4			
	1805	+8.3			
	1807	+8.45		+0.33	+8.3/1200
515	1812	+10.8	1200		
	1815	12.2			
	1817	11.1			
	18:19	12.8			
	18:21	15.65		INCONCLUSIVE	
	OPEN	FLOW	9-20-92		
105	0917	-.58	15		
	0919	-5.7	150		
	0921	-6.1	150	-0.54	-5.9/150
140	0930	-5.7	150		
	0931	-12.0	150		
	0934 0937	— -11.1	150		
	0940 0943	-9.95 -7.3	150		
	0946 0949	-7.1 -7.5	150	-0.44	-7.3/150
200	1000	-5.25	150		
	1003	-3.35	150		
	1006	-4.35	150		
	1009	-4.60	150	-0.70	-4.5/150

STATIC
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P1196

M-17

DEPTH	TIME	CM/PEAK	CSPEED	GPM	REMARK
250	1017	20.0	150		
	1024	1.55	15		
	1028	2.95	15		
	1036	?			
	1038	4.3	15		
	1045	4.0/6.5	15		INCONCLUSIVE

STATIC
15 OF 17

P1197

	6" HOLE				①
6 IN	M-18		MM/DD 9-19-92		
DEPTH	TIME	cm-PEAK	CHART SPEED	GPM	REMARKS
100	0955	-9.25	1200		
	095	-9.10	1200		
	10:00	-8.75	1200		
	10:01	-9.15	1200	-0.33	-9.0/1200
210	10:14	-11.45	1200		
	10:15	-8.85	1200		
	10:16	-7.10	1200		
	10:17	-7.15	1200		
	10:18	-12.45	1200		
	10:19	-7.05	1200	-0.42	-7.1/1200
250	10:30	-4.65	1200		
	10:31	-4.50	1200		
	10:32	-5.10	1200		
	10:33	~~-5.85~~	1200		
	10:34	-4.60	1200		
	10:35	-4.50	1200	-0.69	-4.6/1200
330	10:49	-3.50	1200		
	10:51	-3.60	1200		
	10:52	-4.20	1200		
	10:53	-3.80	1200	-0.85	-3.9/1200
360	11:05	-2.35	1200		
	11:06	-3.05	1200		
	11:08	-2.70	1200		

STATIC
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P1197

M-18

DEPTH	TIME	DIV	C SPEED	REMARKS
360	1110	-3.10	1200	
	1112	—	1200	
	1115	-2.85	1200	-1.30 -2.9/1200
475	1138	-3.20	1200	
	1139	-2.95	1200	
	1141	-3.90	1200	
	1145	-3.30	1200	
	1148	-3.90	1200	-0.92 -3.7/1200
525	1215	-6.0	150	
	1216	-7.6	150	
	12.35	+23.3	150	INCORRECT!!

STATIC
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PUMPING

1 OF 6

P1195

M-16

18 PUMPING
9-24-92

DEPTH	TIME	CM-PEAK	cm/min < SPEED	GPM	REMARKS
95	1435	-14.3	1200		
	1439	-1.5	150		
	1441	-1.45	150		
	1443	-1.40	150	-0.26	-1.40/150
160	1504	-1.3	15		
	1512	-3.15	150		
	1514	-2.1	150		
	1516	-2.1	150		
	1518	-1.5	150		
	1520	-1.7	150		
	1522	-1.85	150		
	1524	-1.7	150	-0.20	-1.75/150
300	1547	-2.15	150		
	1548	-2.0	150		
	1549	-1.80	150		
	1552	-1.75	150	-0.20	-1.75/150
400	1610	-2.4	150		
	1612	-1.75	150		
	1615	-1.4	150		
	1618	-1.2	150		
	1622	-1.2	150	-0.31	-1.2/150

PUMPING

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P1195

(M-16)

DEPTH	TIME	CM-PEAK	CSPEED	GPM	REMARKS
500	1640	1.2	150		
	1646	1.3	150		
	1648	1.4	150		
	1650	1.5	150		
	1700	1.8	150		
	1704	1.95	150		
	1706	1.8	150	+0.18	+1.85/150
550	1723	.85	150		
	1725	6.6	1200		
	1727	7.0	1200		
	1729	6.65	1200		
	1731	7.0	1200	+0.41	+6.9/1200
455	1757	3.35	150		
	1759	3.00	150		
	1801	3.10	150		
	1803	2.95	150	+0.10	+3.0/150

PUMPING

3 OF 6

P1196

			18 PUMPING 9-24-92		
	M-17				
DEPTH	TIME	CM-PEAK	MM/MIN C SPEED	GPM	REMARKS
200	0900	-2.70	1200		
	0901	-2.80			
	0902	-2.85		-1.37	-2.8/1200
250	0912	+9.50			
	0914	+10.7			
	0916	+11.7			
	0920	+18.1			
	0925	+18.35			
	0930	+17.35	1200	+0.10	+17.5/1200
275	0940	+1.7	150		
	0942	+1.60			
	0944	+1.80			
	0946	+2.25			
	0950	+2.1			
	0952	+2.20		+0.10	+2.15/150
325	1005	+2.0	150		
	1007	+2.4			
	1009	+2.5			
	1011	+2.75			
	1015	+3.00			
	1017	+3.15			
	1019	+3.15		+0.07	+3.15/150

PUMPING

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P1196

M-17

DEPTH	TIME	CM-PER	CAPEED	GPM	REMARKS
375	1030	+.9	150		
	1031	+9.95	1200		
	1033	+10.9			
	1038	+11.5			
	1043	+14.4			
	1048	+13.1			
	1050	+15.05		+0.12	+14.2/1200
425	1105	+10.20			
	1110	+13.9			
	1115	+15.0			
	1120	+16.5			
	1125	+15.8		+0.11	+15.5/1200
500	1140	+10.9			
	1145	+15.0			
	1150	+19.0			
	1155	+17.55		+0.10	+17.2/1200
515	1210	+1.95	150		
	1215	+2.0			
	1220	+2.1		+0.11	+2.0/150
516	1222	+2.55			
	1224	+4.4			
	1229	3.7			
	1234	4.2		+0.05	+4.1/150

PUMPING

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P1197

OPEN F. METER 18 PUMPING

M-18 9-25-92

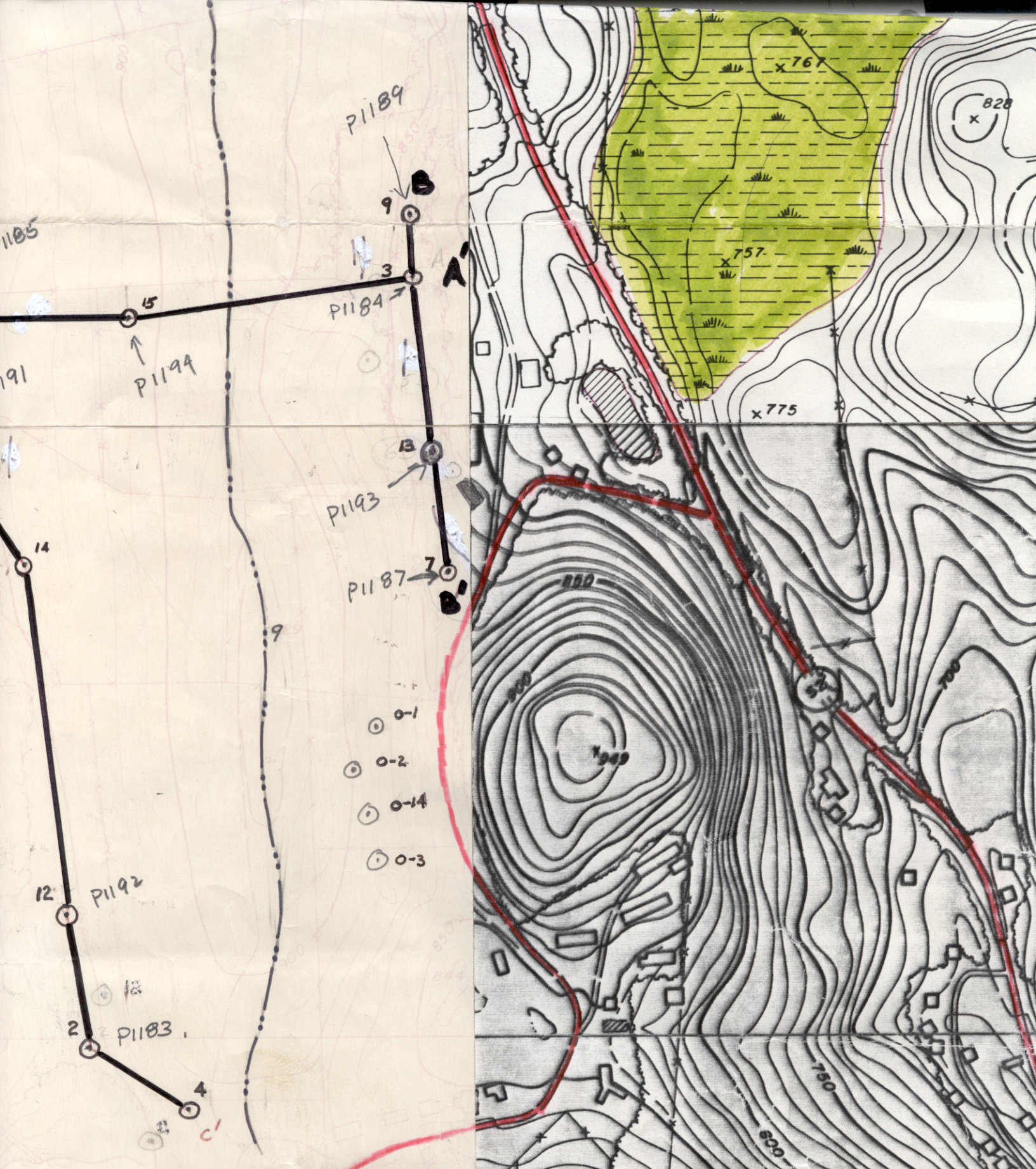
DEPTH	TIME	CM-PEAK	mm/min C SPEED	GPM	REMARKS
210	0905	2.45	1200		OPEN FLOW METER
	07	3.4			
	08	2.8			
	15	3.1			
	20	2.7		GPM Δ ING	
	09 25	3.3		+8.56	+2.9/1200
250	0932	2.9	150		
	0935	4.25			
	0937	4.55			
	0940	4.90		GPM Δ ING	
	0944	5.30			
	09 46	5.65		+0.57	+5.3/150
330	0955	4.6	150		
	1000	4.15			
	1005	4.65			
	1010	4.60		+0.66	+4.6/150
360	1015	3.90	150		
	1020	4.85			
	1025	6.0			
	1030	5.45			
	1035	5.20		+0.54	+5.6/150

PUMPING
6 OF 6

P1197

M-18

DEPTH	TIME	cm-PEAK	C SPEED	GPM	REMARKS
475	1047	9.0	150		
	1050	7.9	150		
	1056	9.6	150		
	1100	9.55	150	+0.31	+9.5/150
525	1110	16	150	.18	
	1115	36	150	.07	INCONCLUSIVE
440	1127	5.2	150		
	1130	5.4	150		
	1132	5.8	150		
	1135	5.9	150		
	1140	5.75	150	+0.52	+5.8/150
250	1151	4.45	150		
	1153	5.45	150		
	1155	5.35	150	+0.56	+5.4/150
210	1159	3.25	1200		
	1200	3.2	1200		
	1201	3.2	1200	+1.75	+3.2/1200



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B
9
3
A'
P1184
15
P1194
13
P1193
14
7
P1187
B'
9
O-1
O-2
O-14
O-3
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P1192
2
P1183
4
C'
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757
775
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900
949
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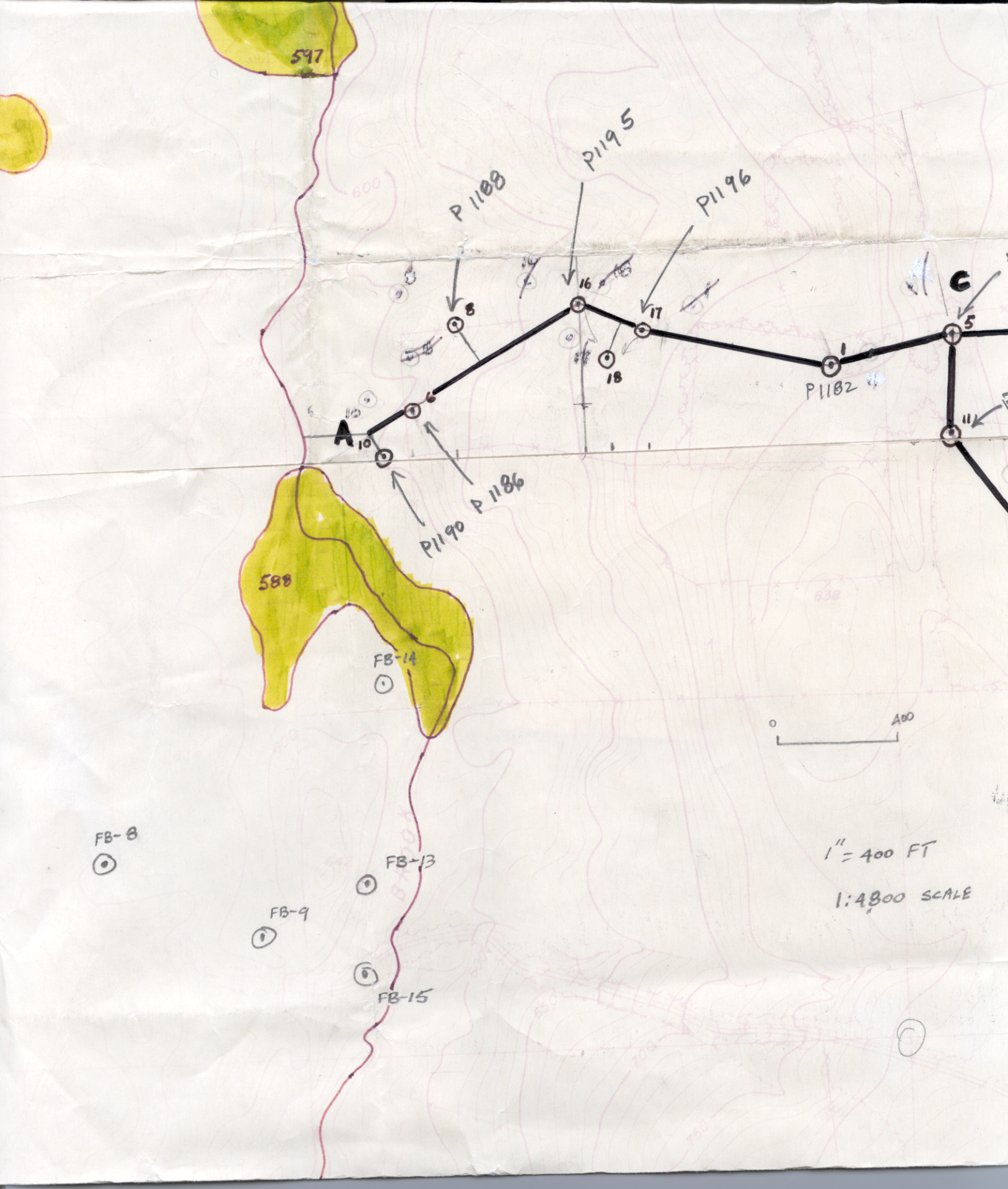
750
600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P1188
P1195
P1196
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FB-9
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400
1" = 400 FT
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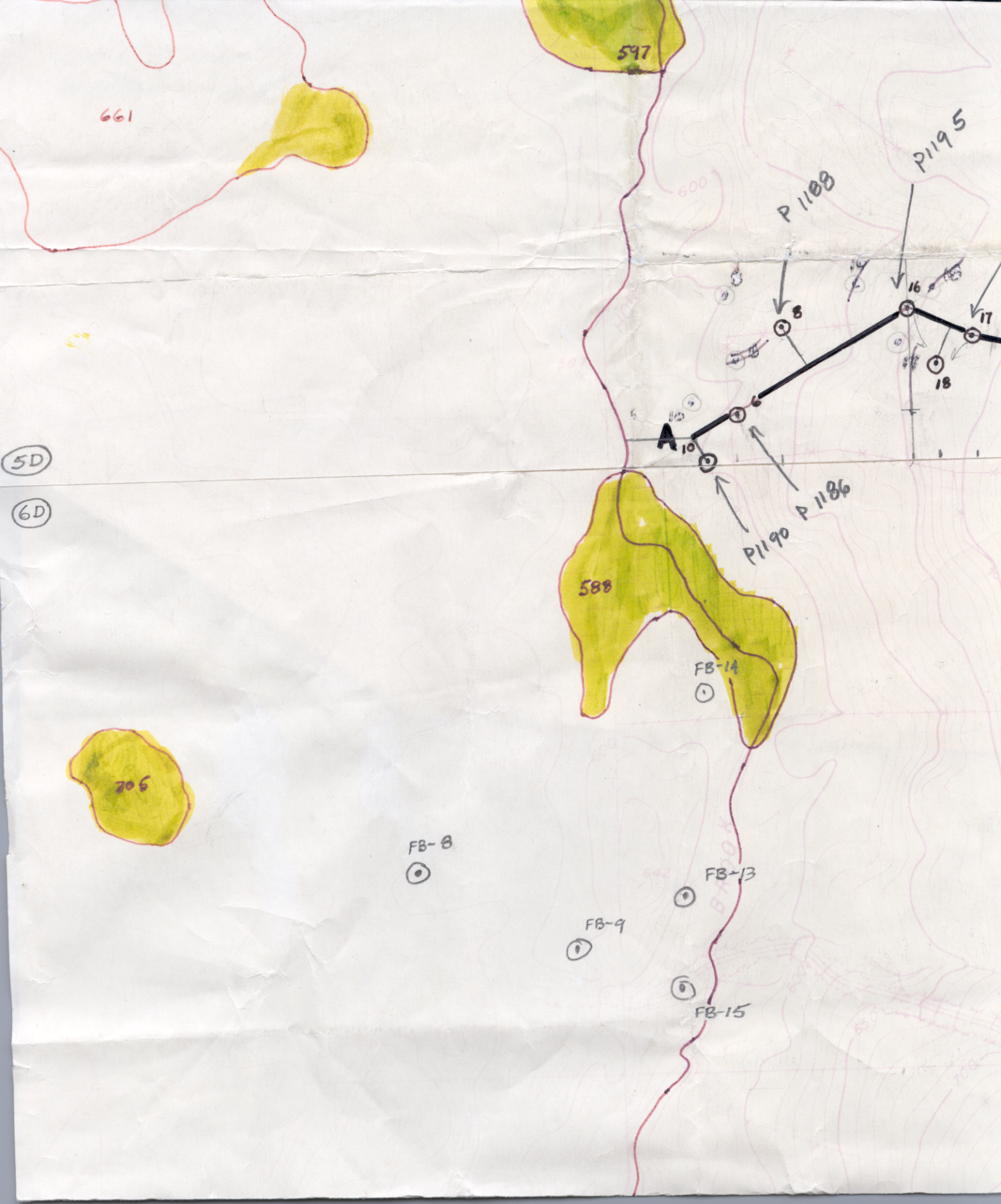
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661
P1195
P1188
16
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18
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P1186
588
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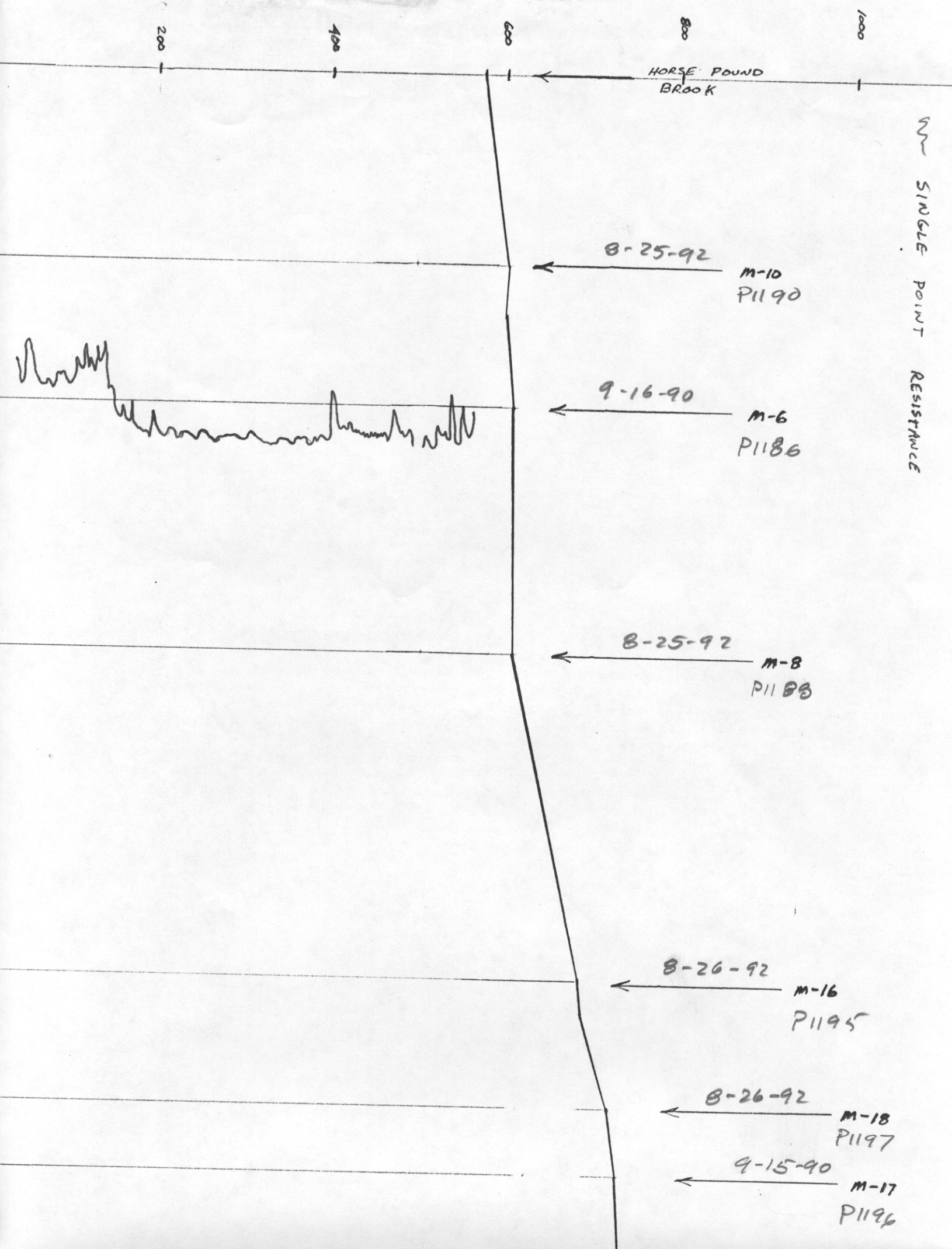
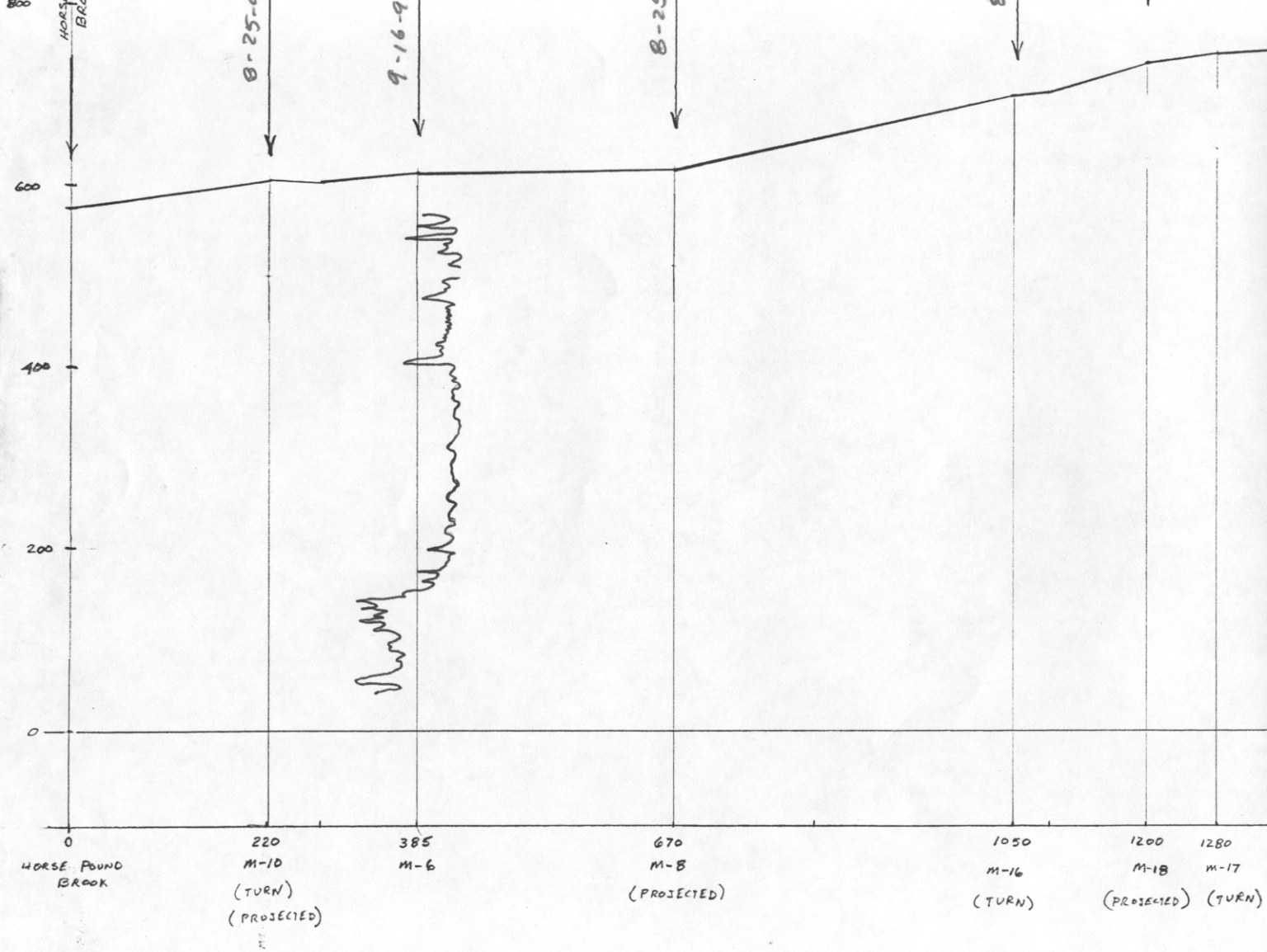
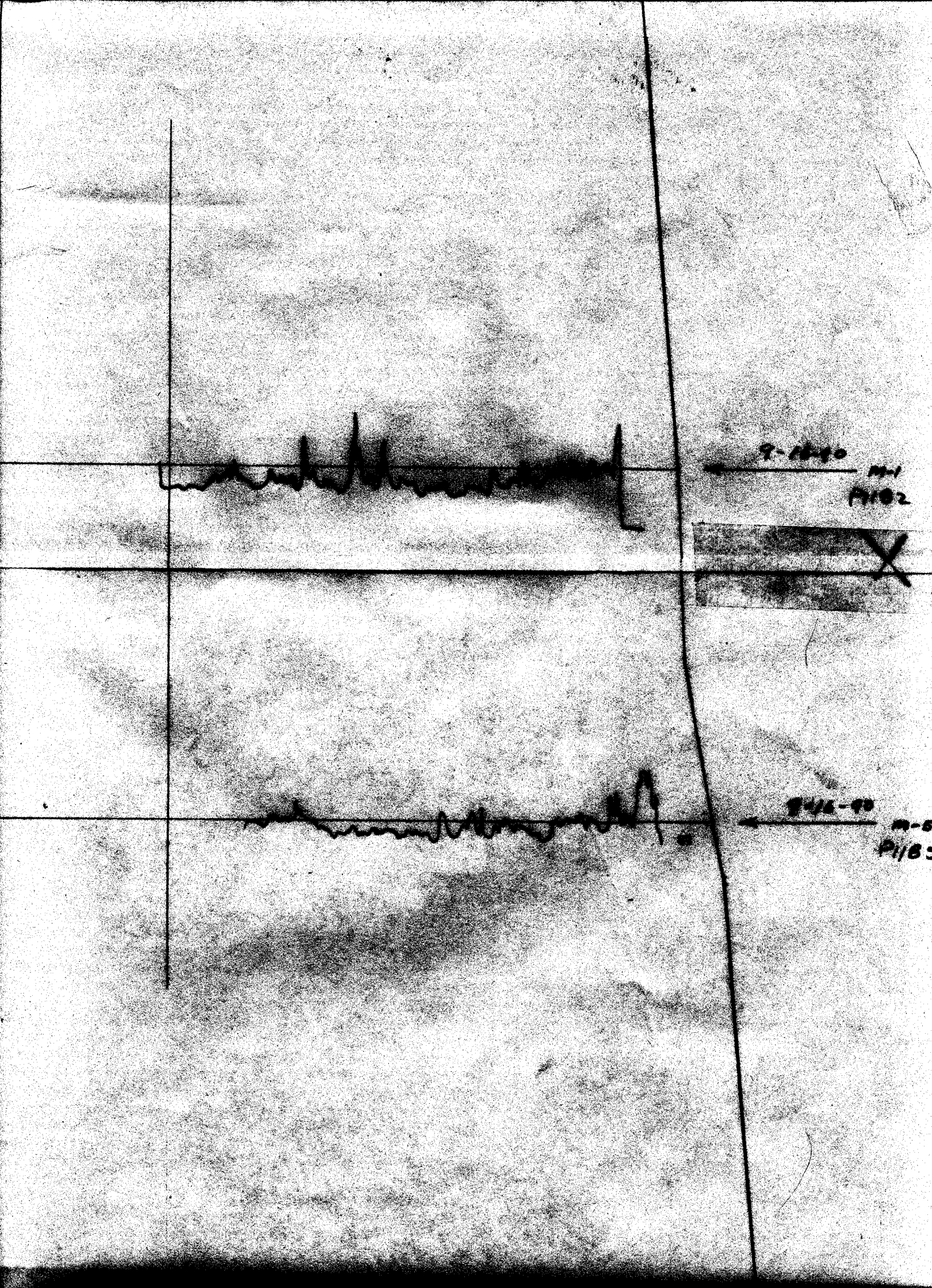
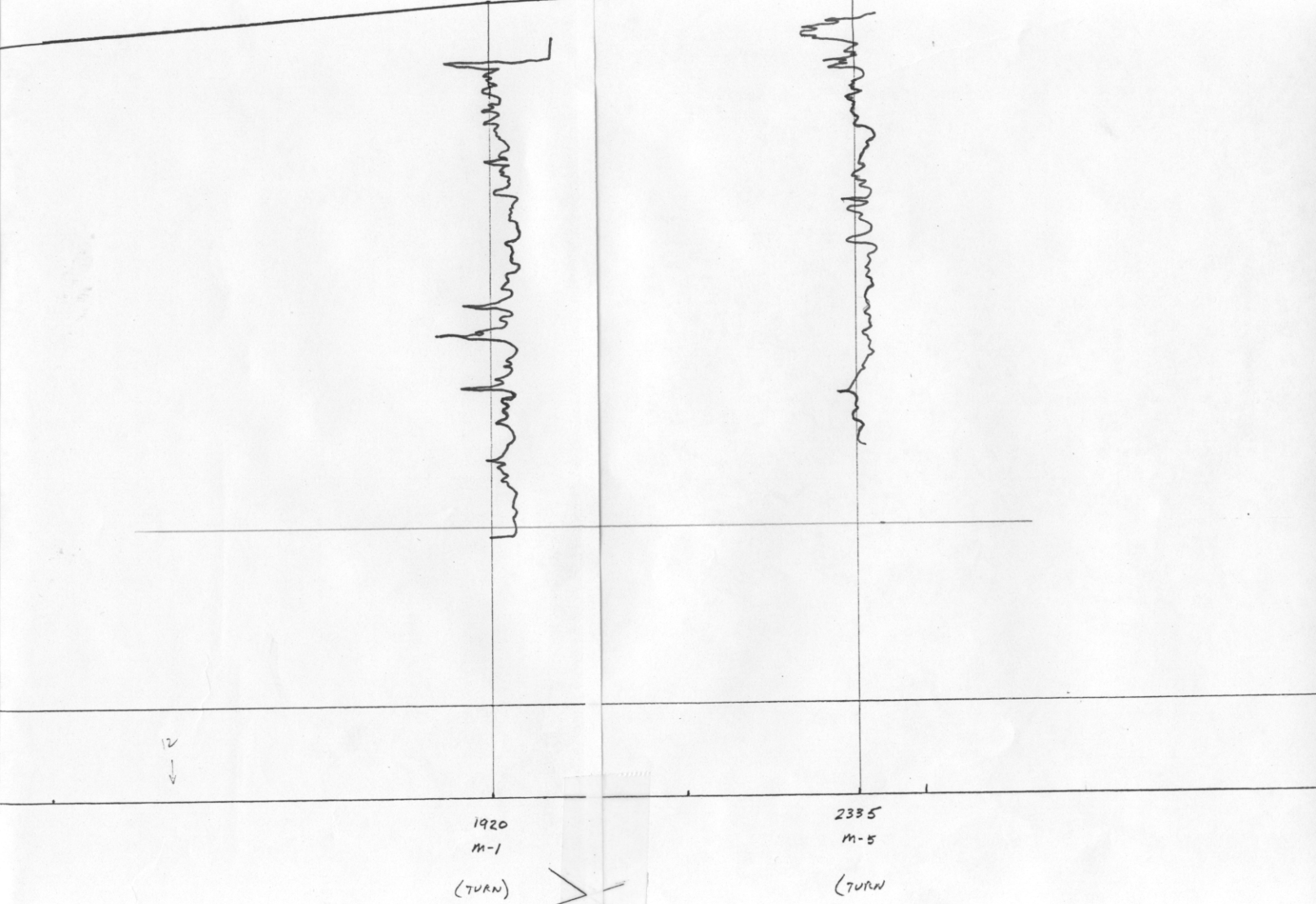
FB-8
FB-13
FB-9
FB-15


200
400
600
800
1000
HORSE POUND BROOK
SINGLE POINT RESISTANCE
8-25-92
M-10
P1190
9-16-90
M-6
P1186
8-25-92
M-8
P1188
8-26-92
M-16
P1195
8-26-92
M-18
P1197
9-15-90
M-17
P1196


800
600
400
200
0
HORSE POUND BROOK
8-25-
9-16-9
8-25
0
HORSE POUND BROOK
220
M-10
(TURN)
(PROJECTED)
385
M-6
670
M-8
(PROJECTED)
1050
M-16
(TURN)
1200
M-18
(PROJECTED)
1280
M-17
(TURN)


9-16-90
M-1
P1182
9-16-90
M-5
P1183


12
1920
M-1
(TURN)
2335
M-5
(TURN

8-26-92

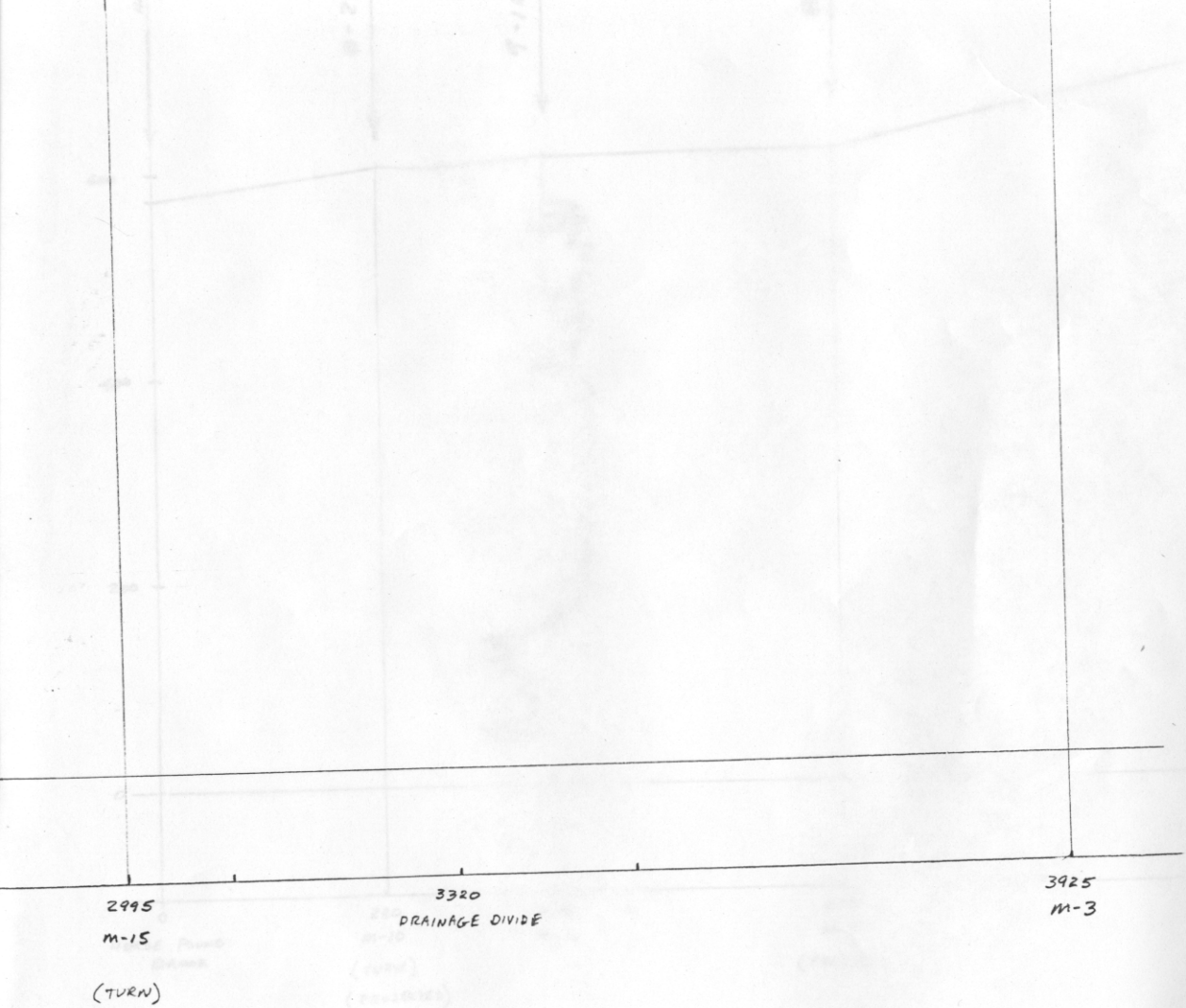
M-15

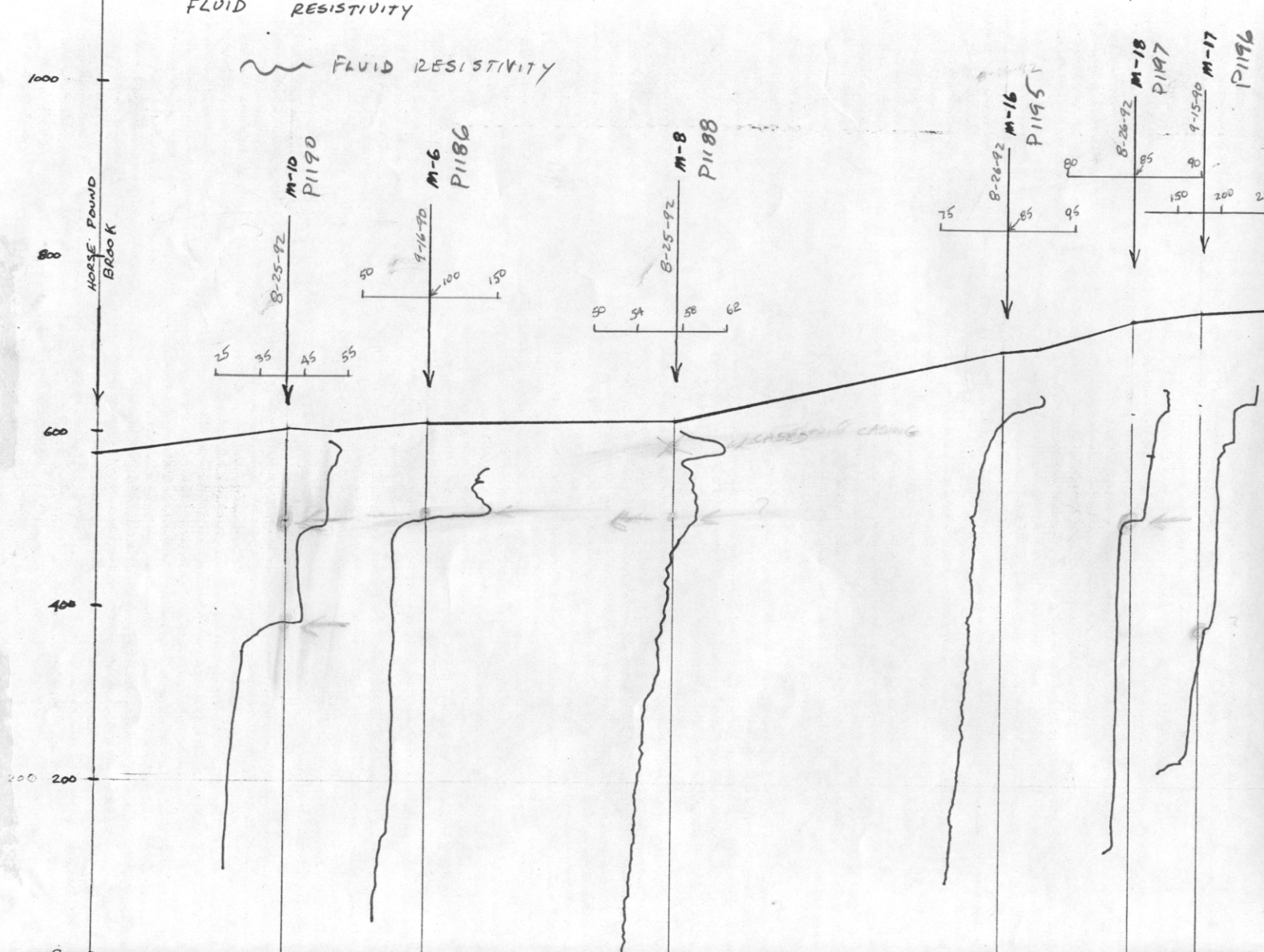
P1194

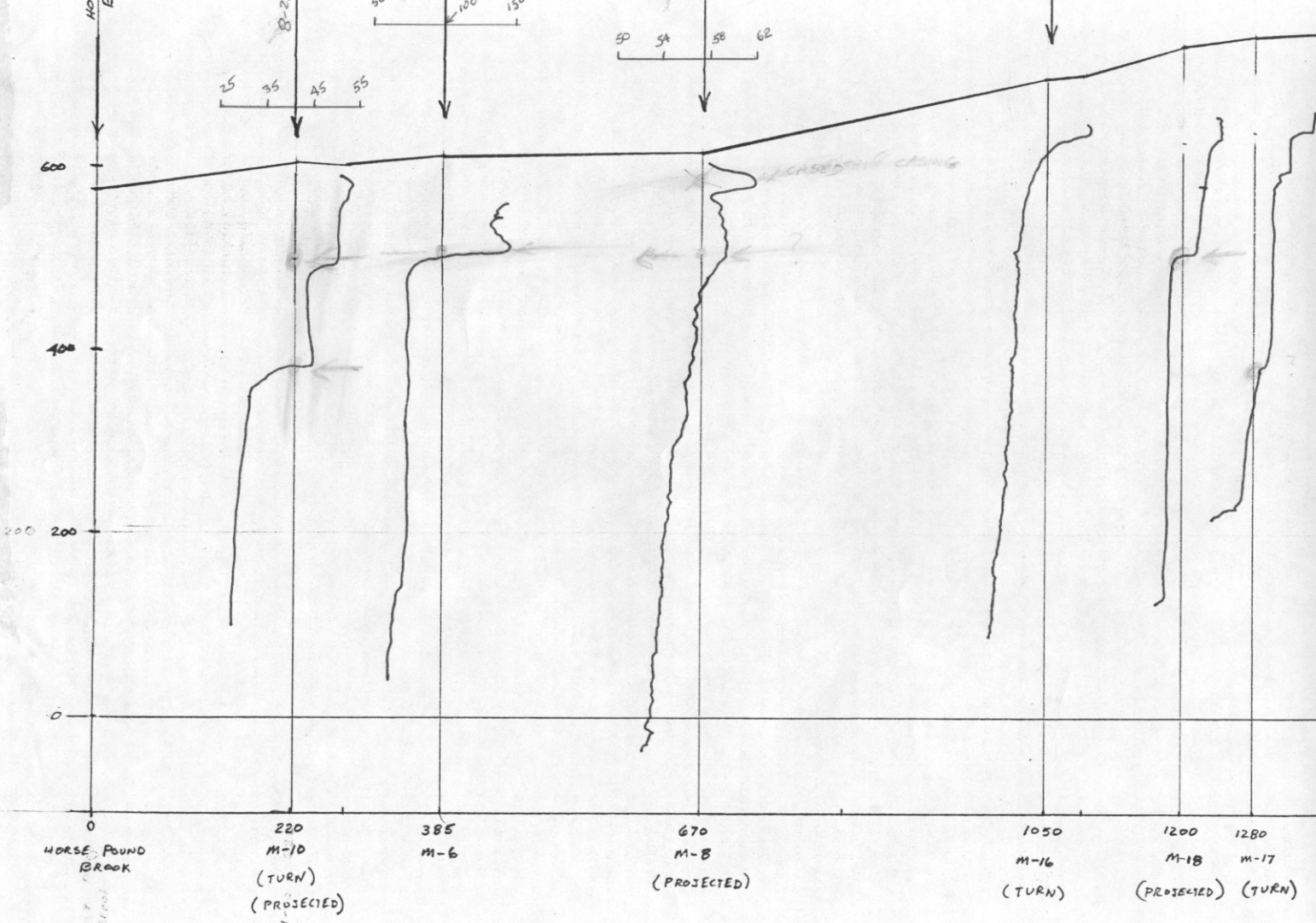
DRAINAGE DIVIDE

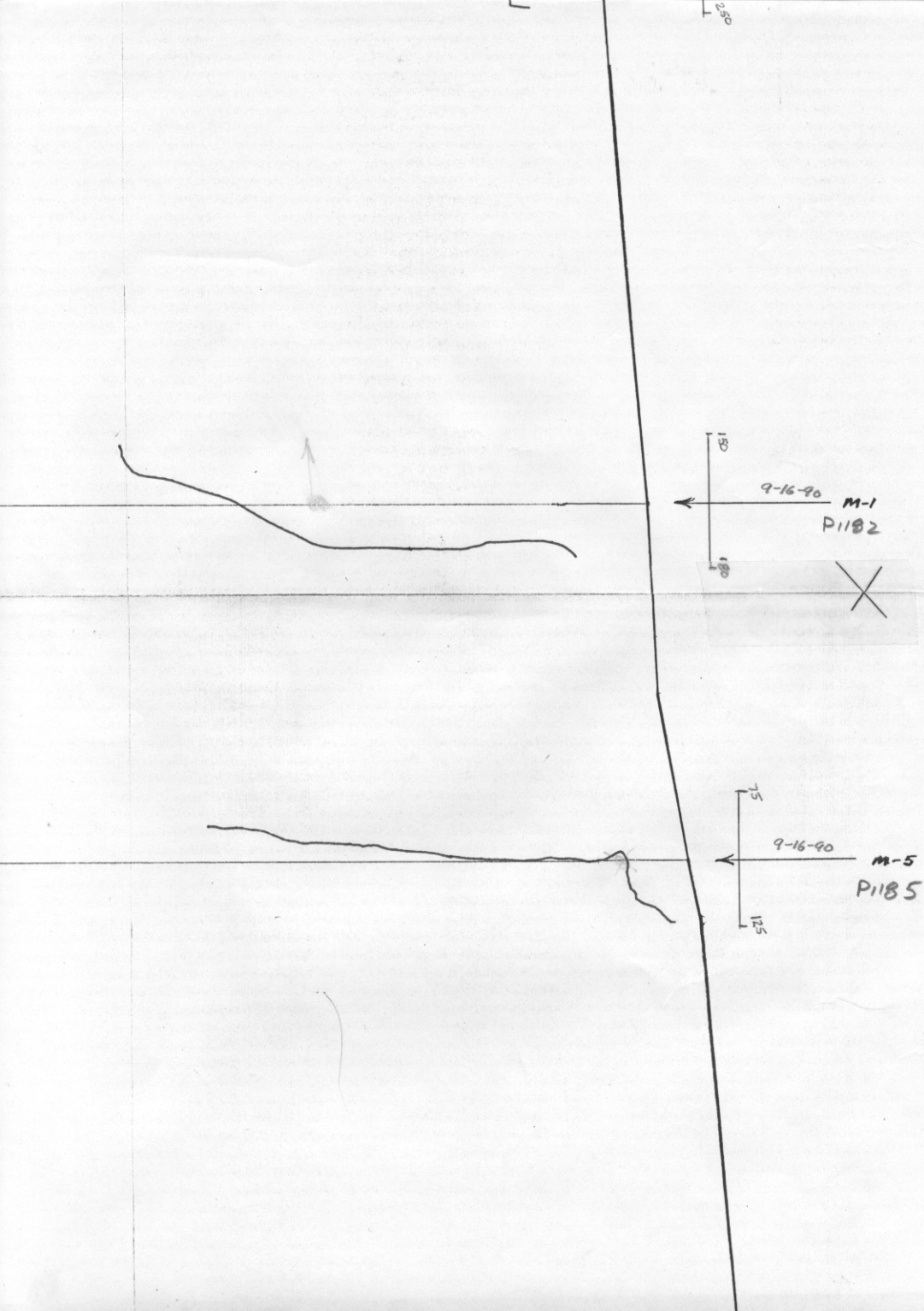
M-3

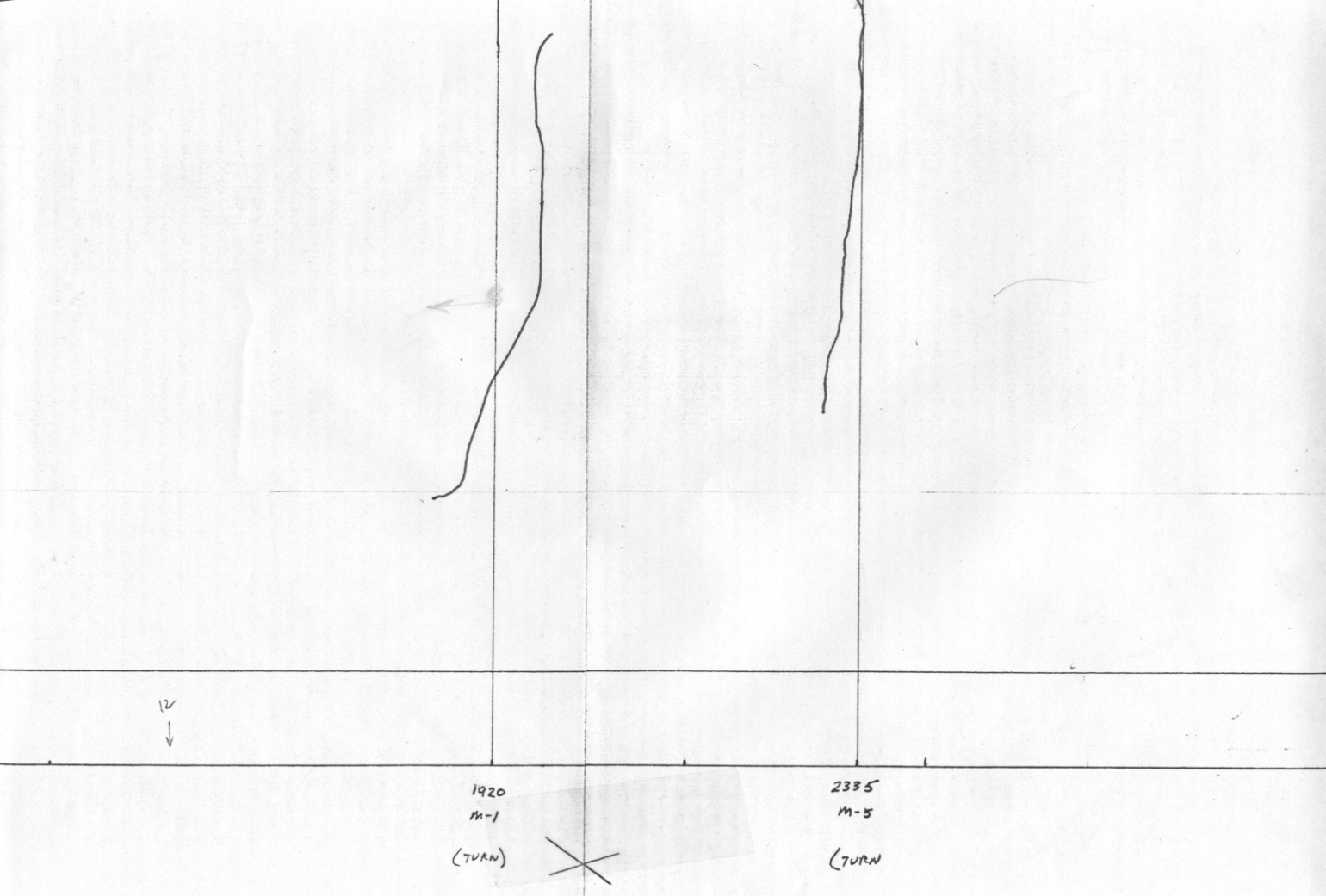
P1184

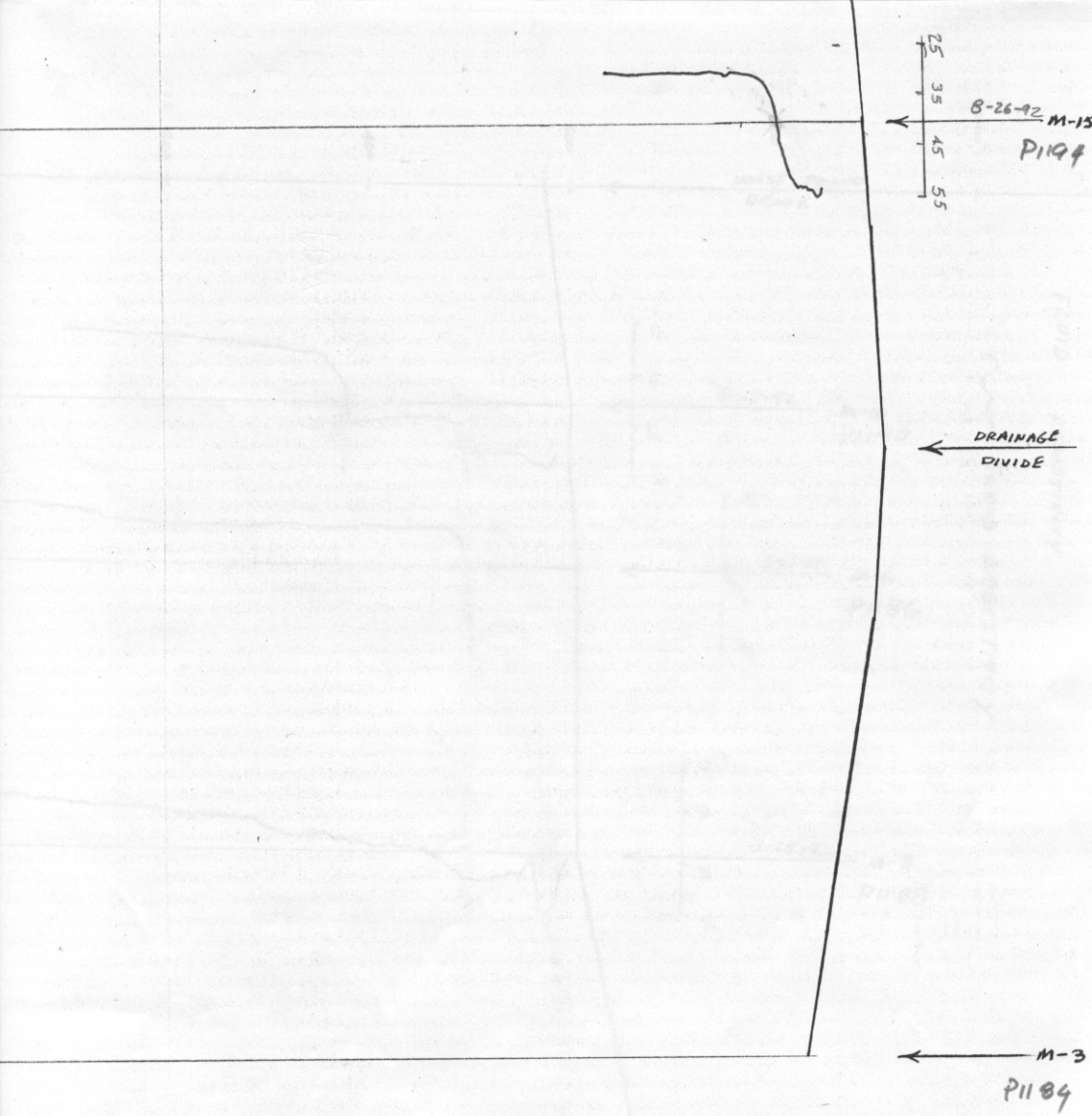

2995
M-15
(TURN)
3320
DRAINAGE DIVIDE
3925
M-3

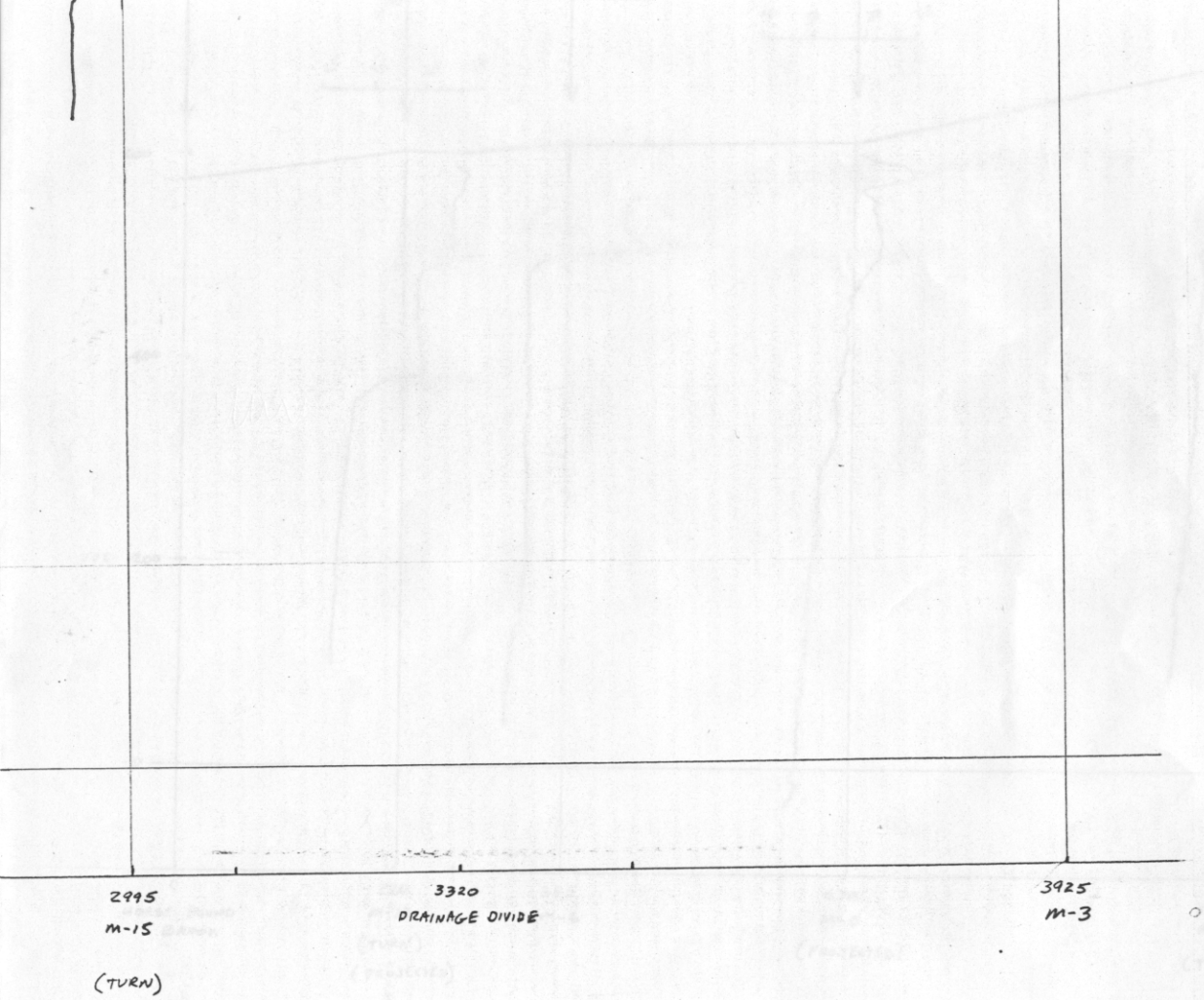

FLUID RESISTIVITY
FLUID RESISTIVITY
1000
800
600
400
200
HORSE POUND BROOK
M-10
P1190
8-25-92
25
35
45
55
M-6
P1186
9-16-90
50
100
150
M-8
P1188
8-25-92
50
54
58
62
M-16
P1195
8-26-92
75
85
95
M-18
P1197
8-26-92
80
85
90
M-17
P1196
9-15-90
150
200

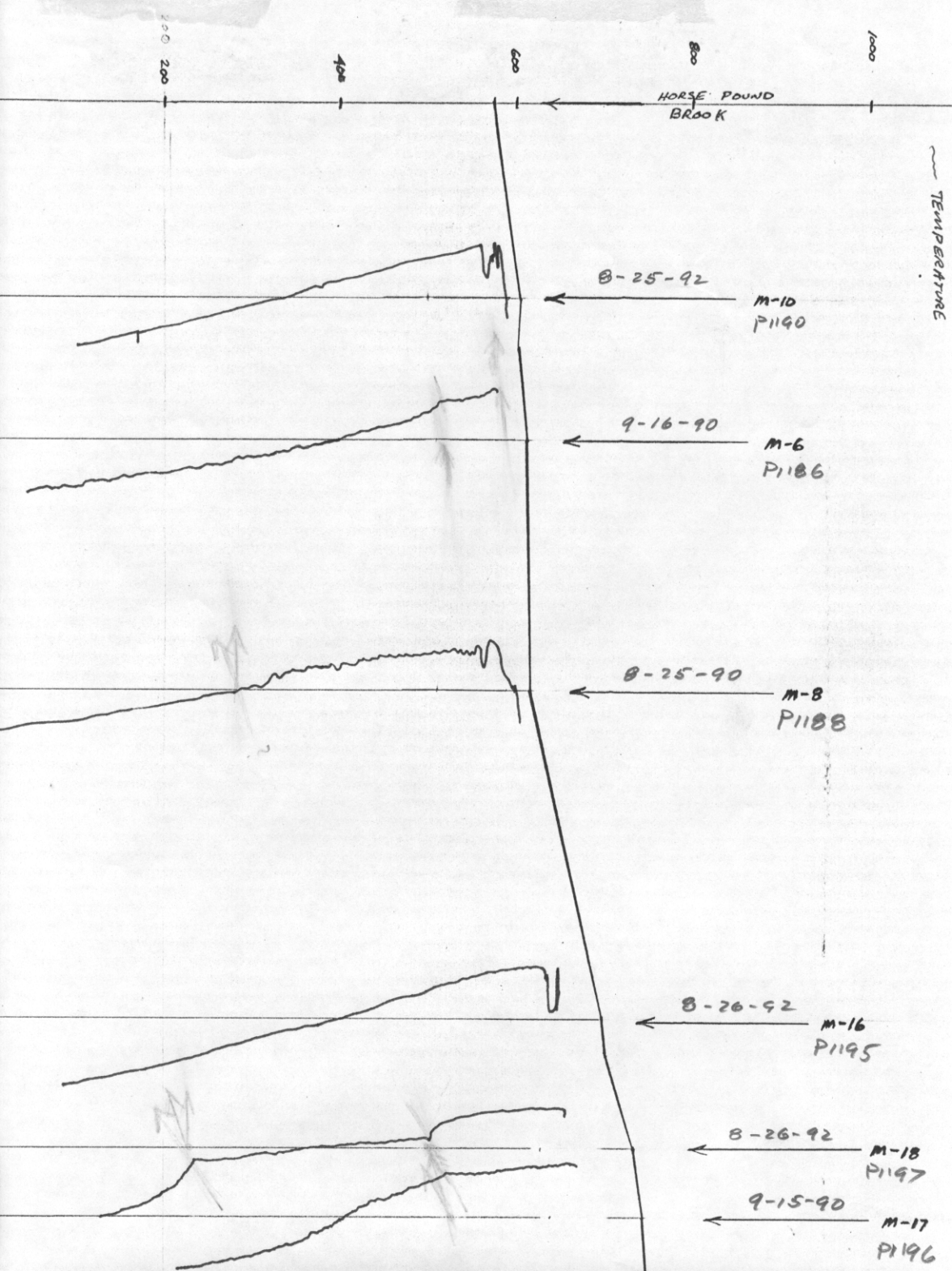

25 35 45 55
50 54 58 62
600
400
200
0
0
HORSE POUND BROOK
220
M-10
(TURN)
(PROJECTED)
385
M-6
670
M-8
(PROJECTED)
1050
M-16
(TURN)
1200
M-18
(PROJECTED)
1280
M-17
(TURN)

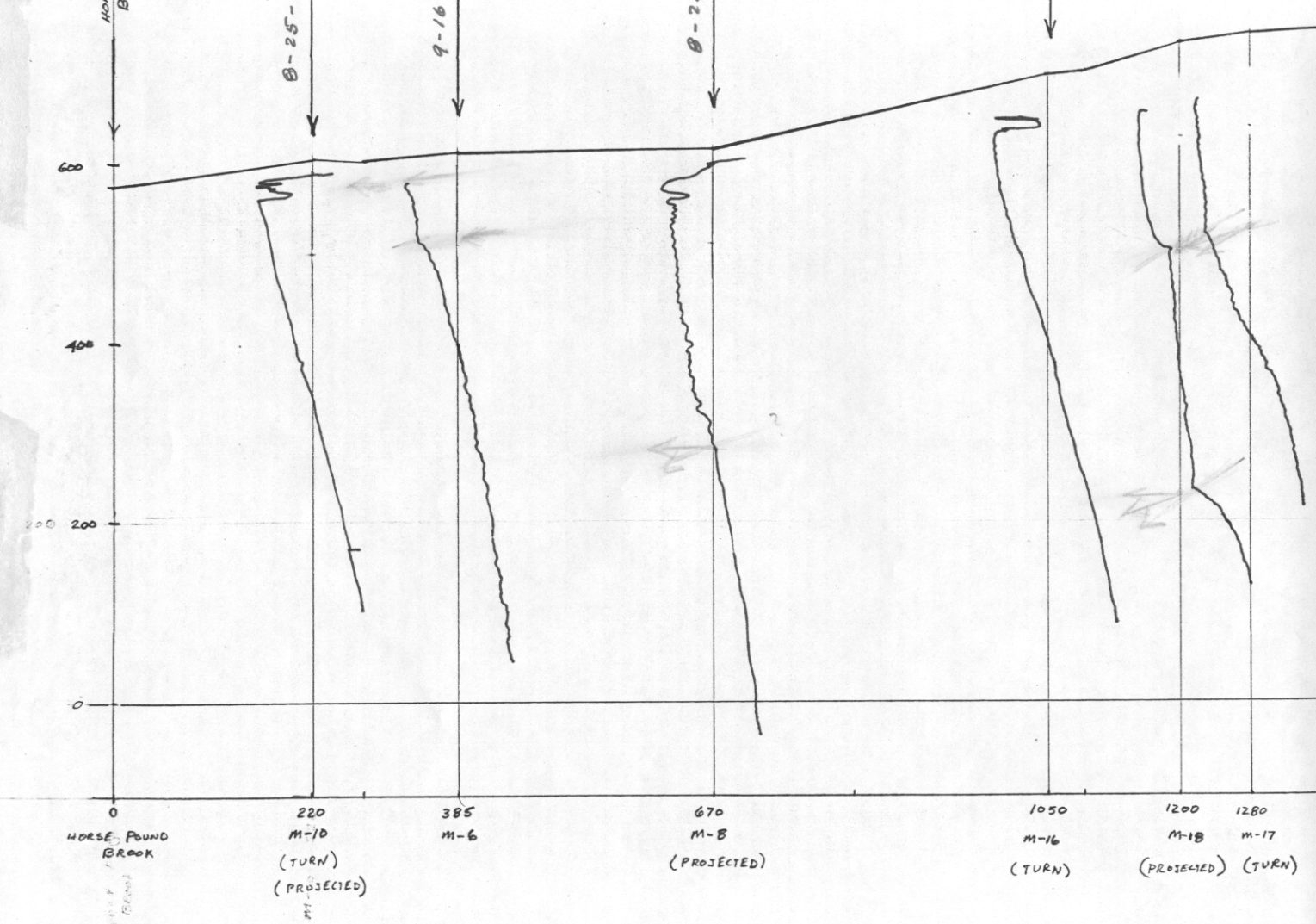

250
150
9-16-90
M-1
P1182
180
75
9-16-90
M-5
P1185
125

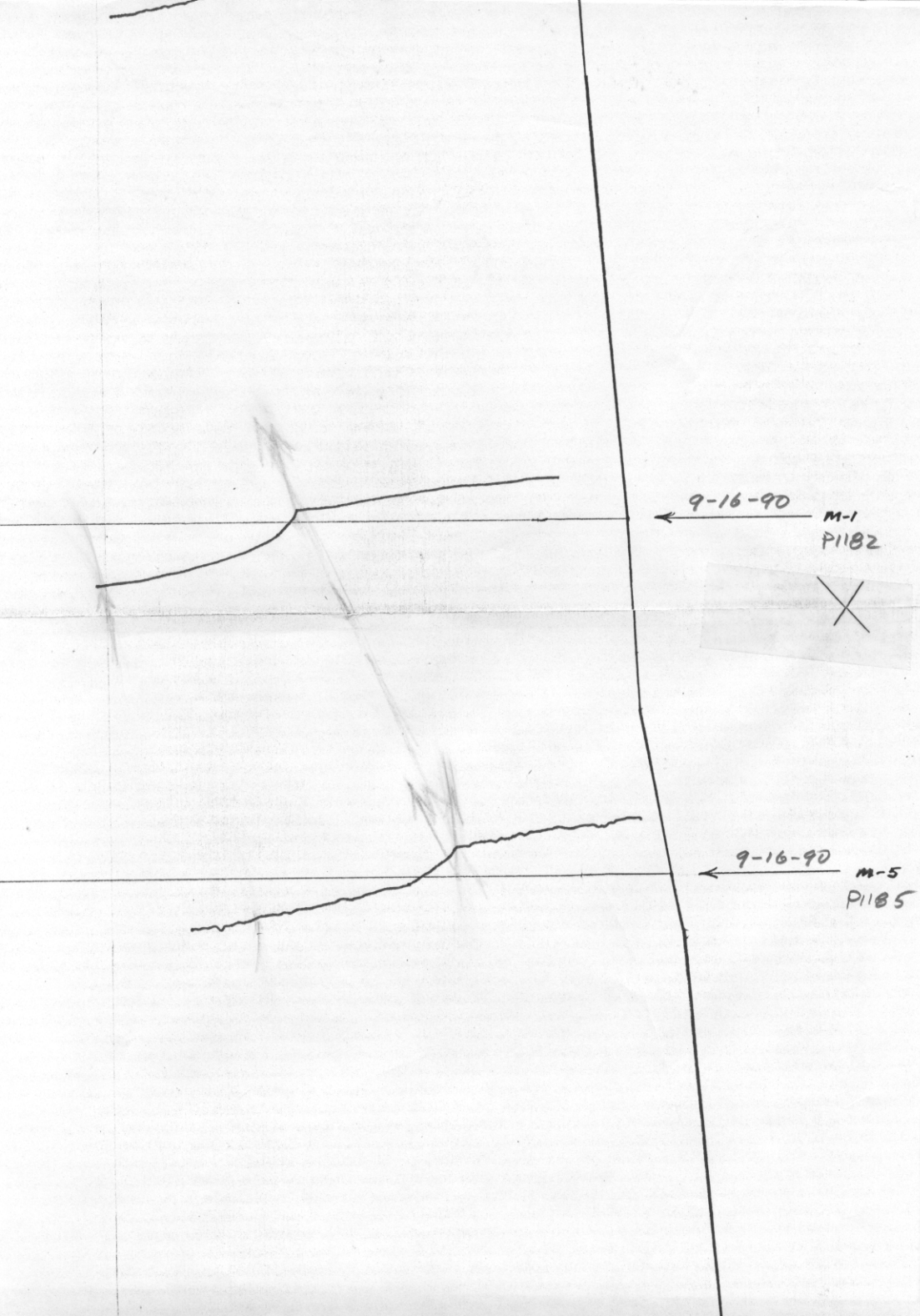

12
1920
M-1
(TURN)
2335
M-5
(TURN

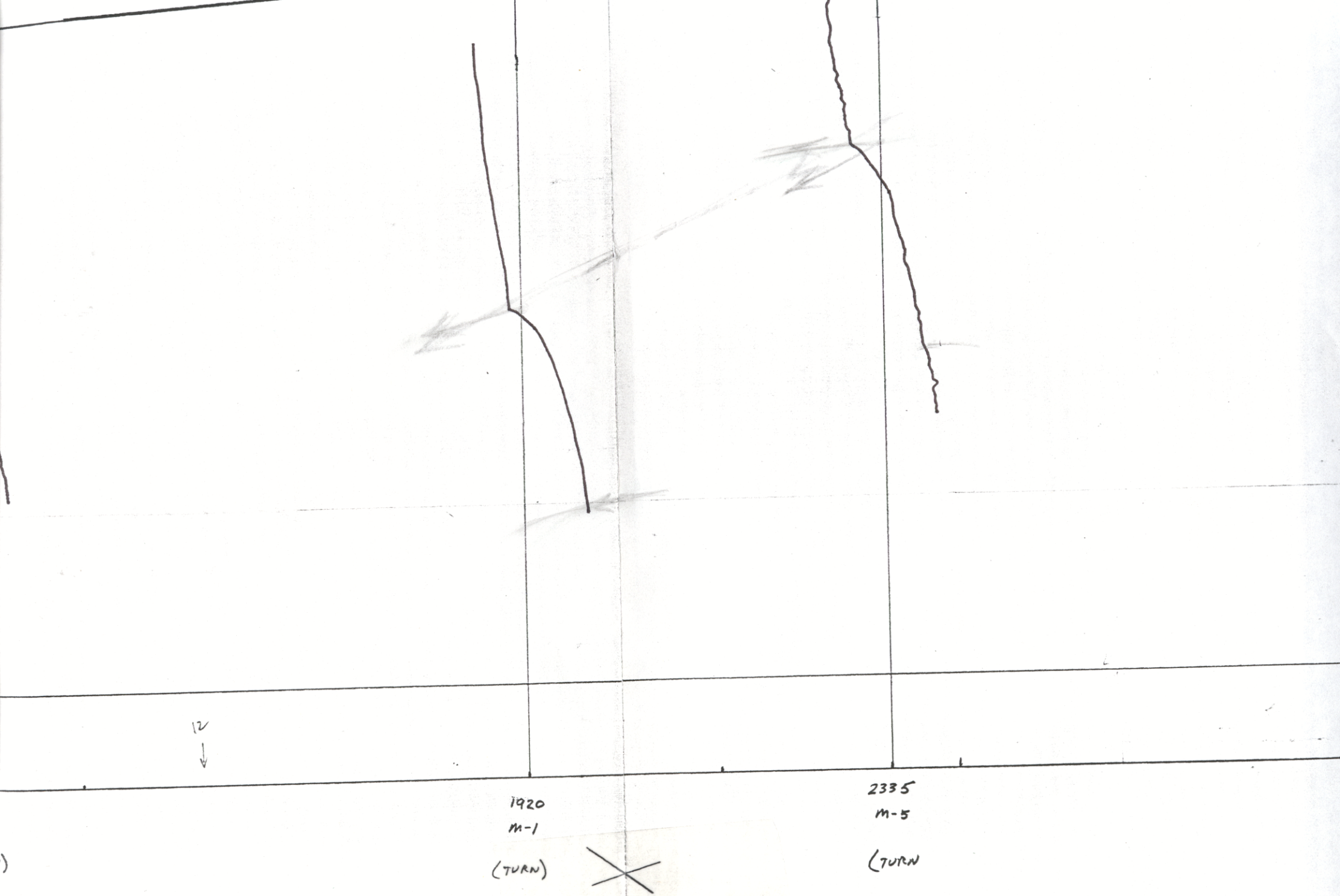

25
35
45
55
8-26-92
M-15
P1194
DRAINAGE
DIVIDE
M-3
P1184

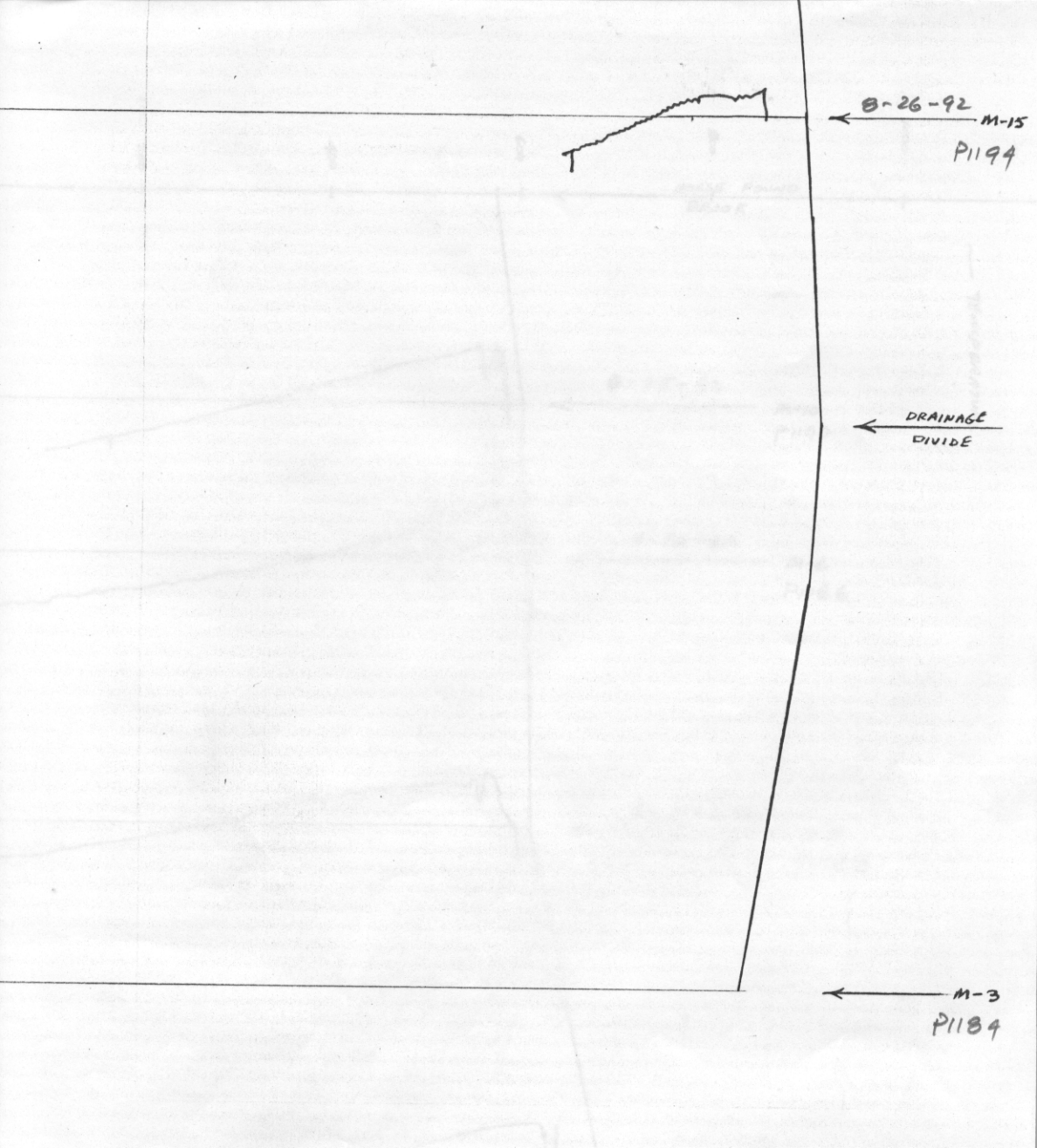

2995
M-15
(TURN)
3320
DRAINAGE DIVIDE
3925
M-3

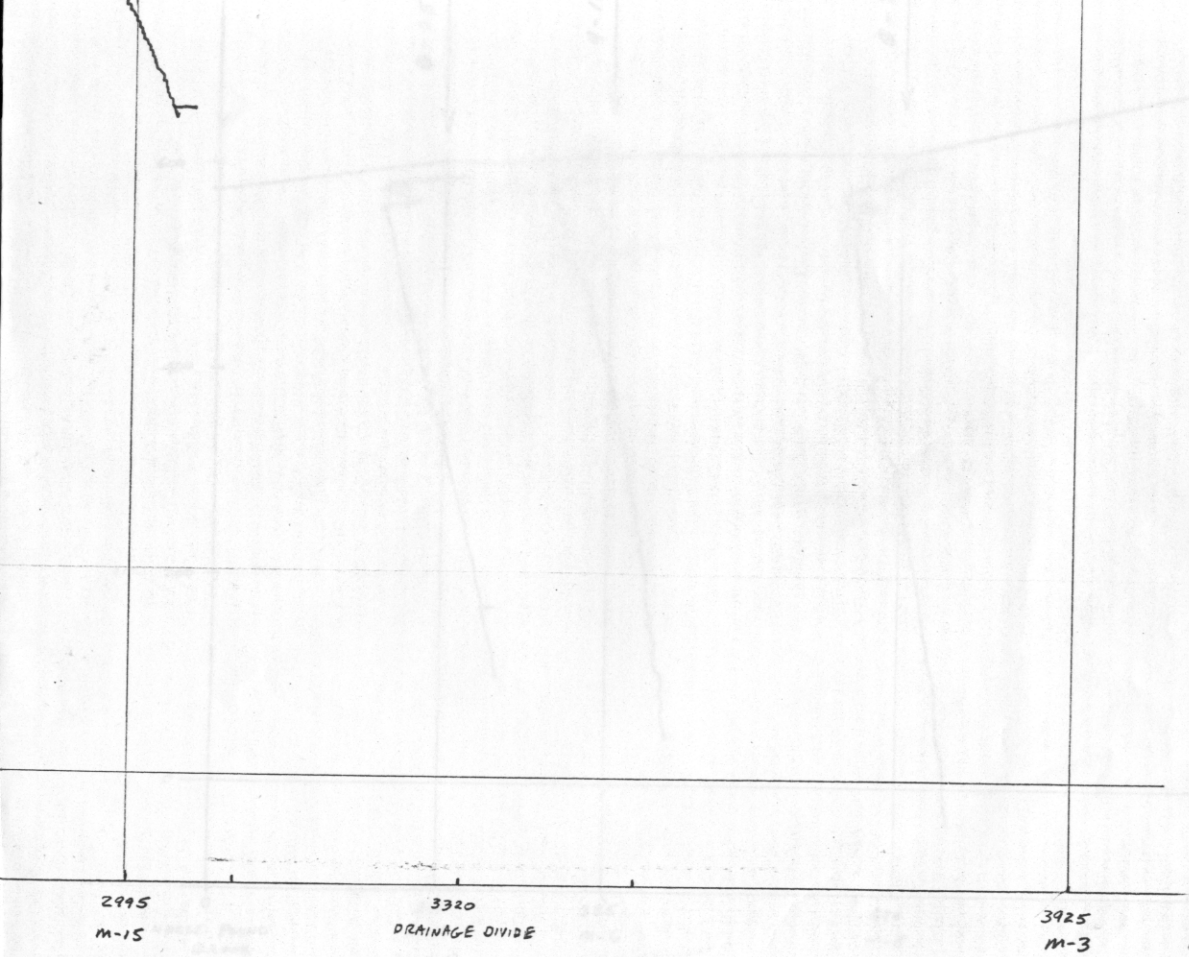

200
400
600
800
1000
HORSE POUND BROOK
TEMPERATURE
8-25-92
M-10
P1190
9-16-90
M-6
P1186
8-25-90
M-8
P1188
8-26-92
M-16
P1195
8-26-92
M-18
P1197
9-15-90
M-17
P1196

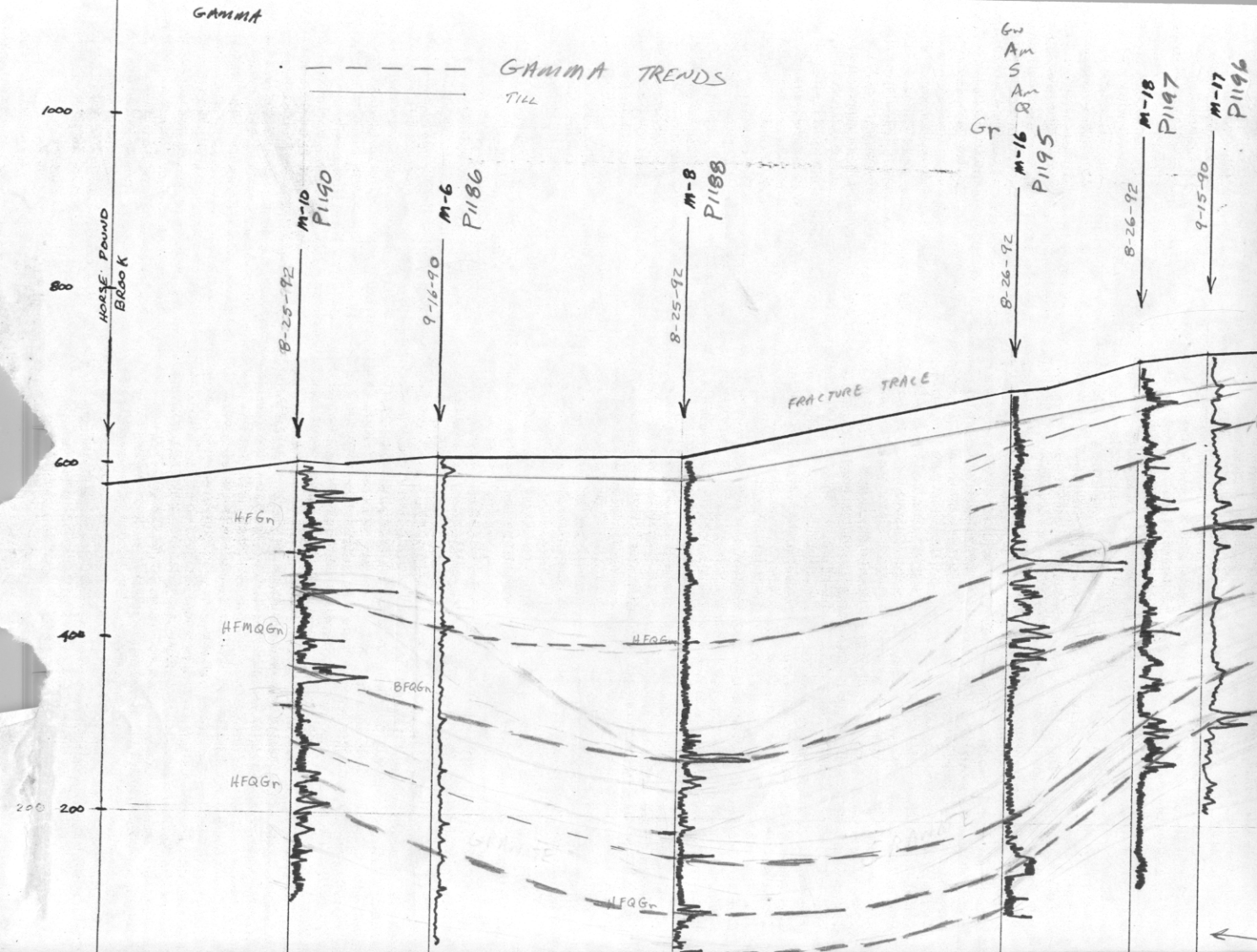

B-25-
9-16
600
400
200
0
0
HORSE POUND BROOK
220
M-10
(TURN)
(PROJECTED)
385
M-6
670
M-8
(PROJECTED)
1050
M-16
(TURN)
1200
M-18
(PROJECTED)
1280
M-17
(TURN)

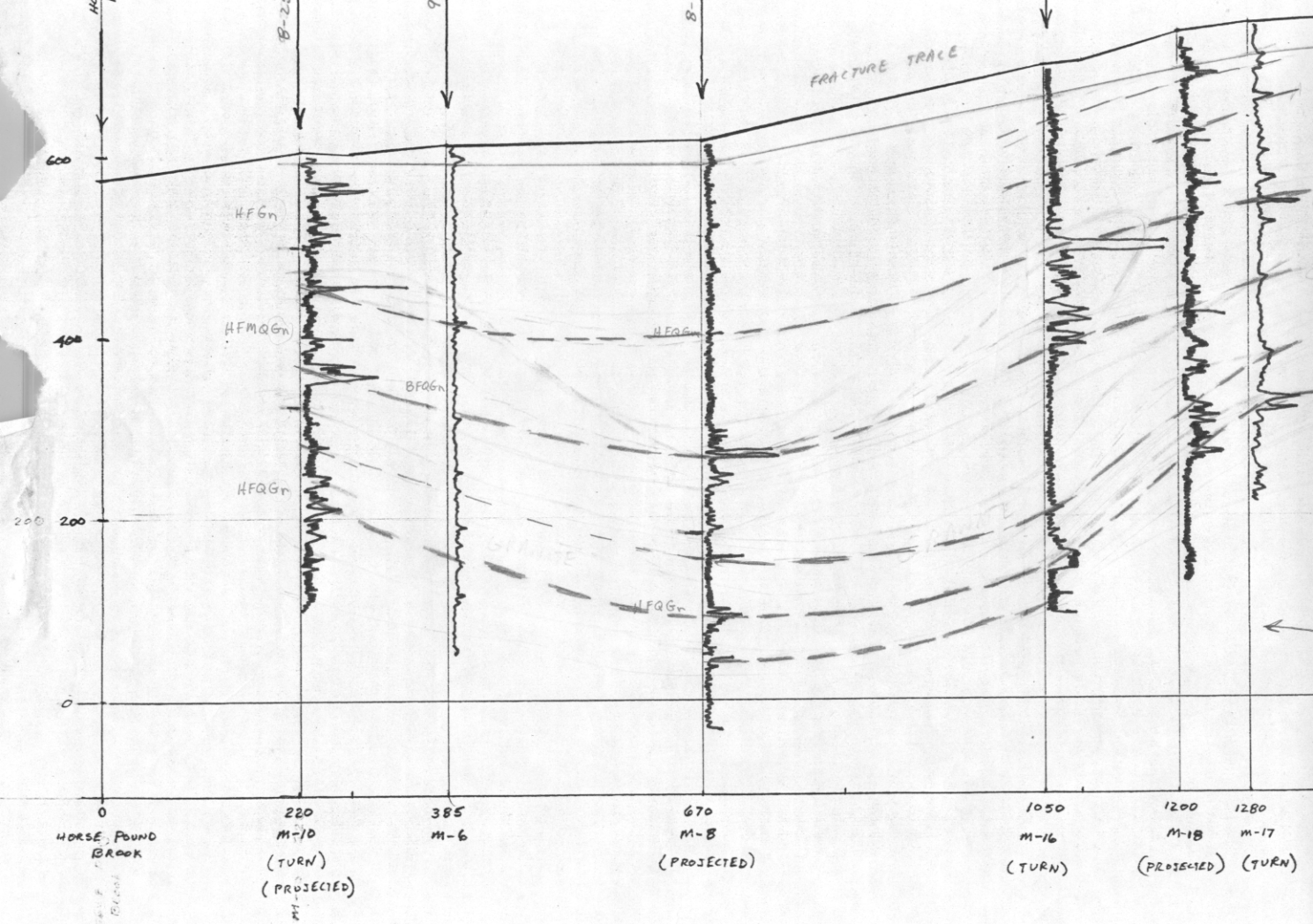

9-16-90
M-1
P1182
9-16-90
M-5
P1185


12
1920
M-1
(TURN)
2335
M-5
(TURN


8-26-92
M-15
P1194
DRAINAGE
DIVIDE
M-3
P1184

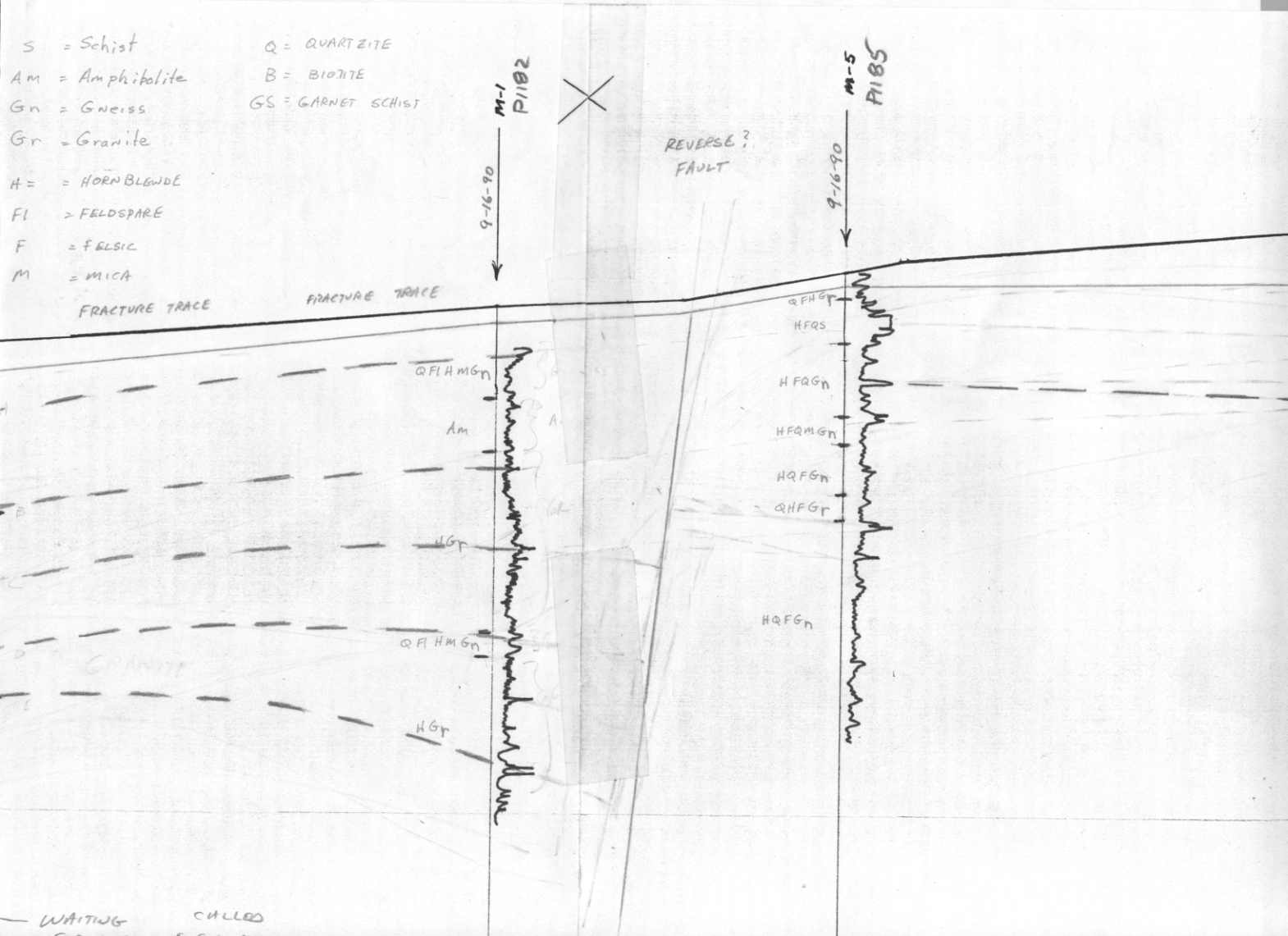

2995
M-15
(TURN)
3320
DRAINAGE DIVIDE
3925
M-3


GAMMA
GAMMA TRENDS
TILL
1000
800
600
400
200
HORSE POUND
BROOK
M-10
P1190
8-25-92
M-6
P1186
9-16-90
M-8
P1188
8-25-92
Gr
Am
S
Am
Gr
M-16
P1195
8-26-92
M-18
P1197
8-26-92
M-17
P1196
9-15-90
FRACTURE TRACE
HFGn
HFMQGn
BFQGn
HFQGr
HFQGr

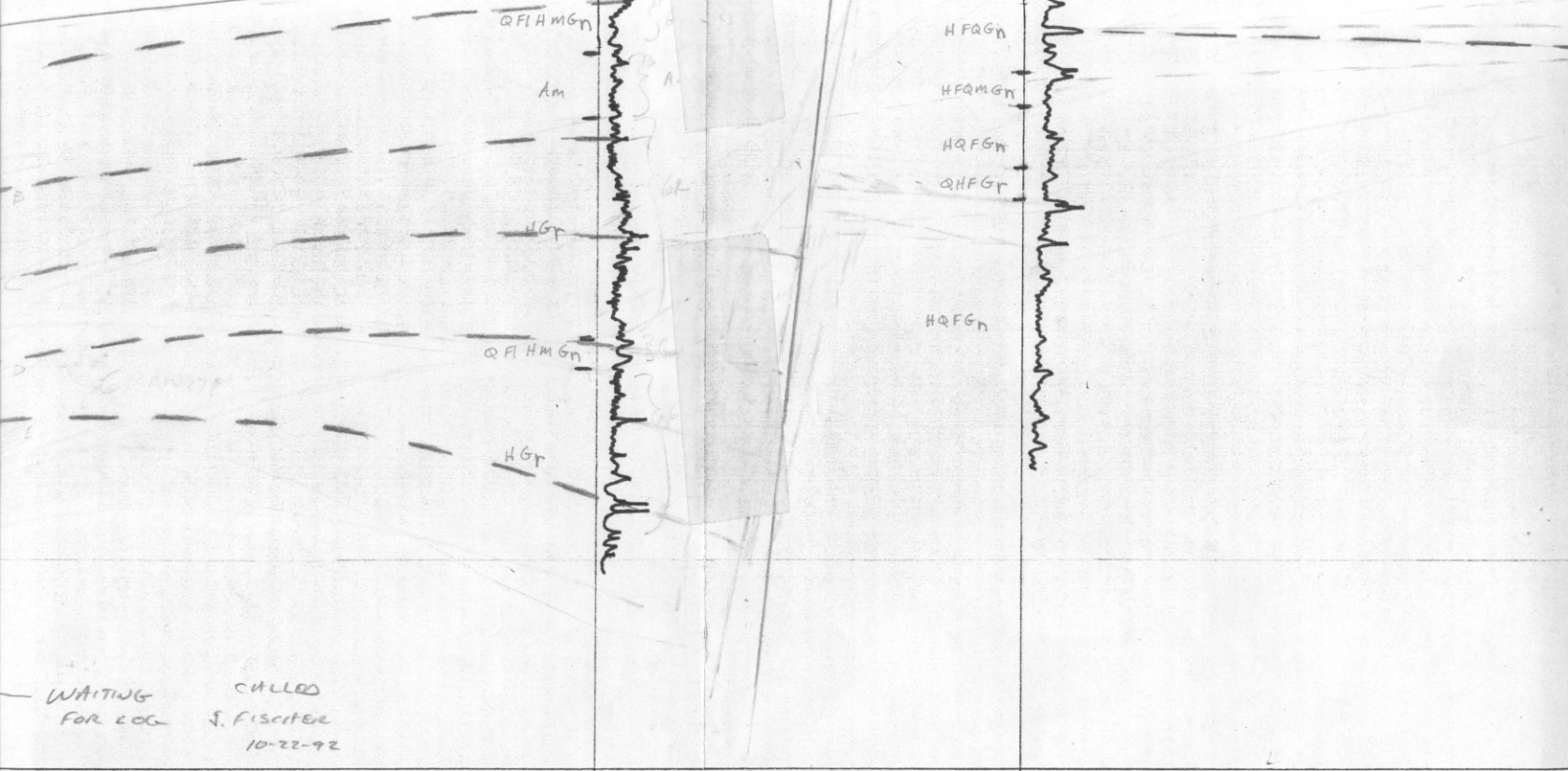

FRACTURE TRACE
600
400
200
0
HFGn
HFMQGn
BFQGn
HFQGr
HFQGr
0
HORSE POUND BROOK
220
M-10
(TURN)
(PROJECTED)
385
M-6
670
M-8
(PROJECTED)
1050
M-16
(TURN)
1200
M-18
(PROJECTED)
1280
M-17
(TURN)

S = Schist
Am = Amphibolite
Gn = Gneiss
Gr = Granite
H = HORNBLENDE
Fl = FELDSPARE
F = FELSIC
M = MICA

Q = QUARTZITE
B = BIOTITE
GS = GARNET SCHIST



WAITING CHILLED



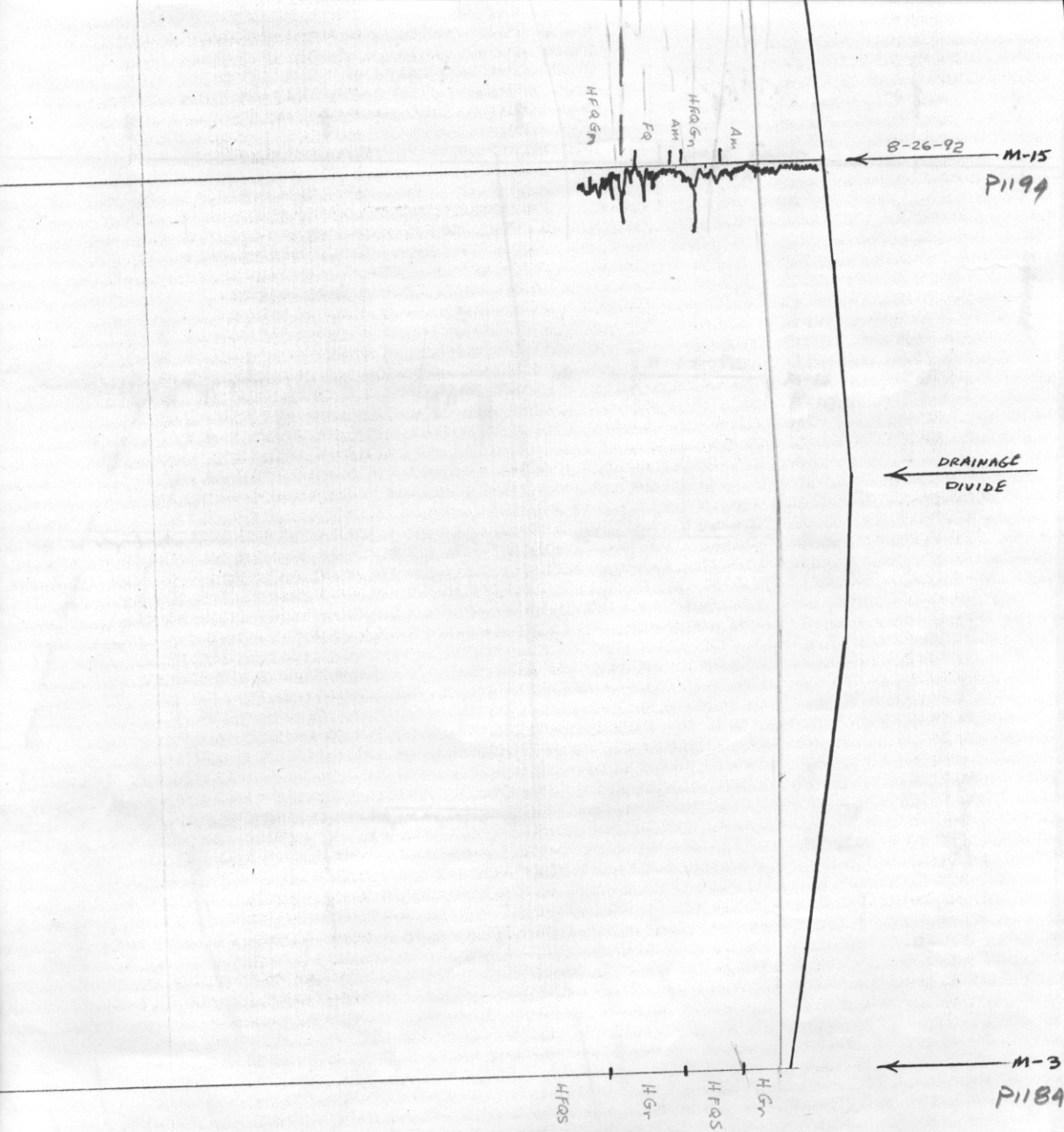
12 Biotite granitic gneiss

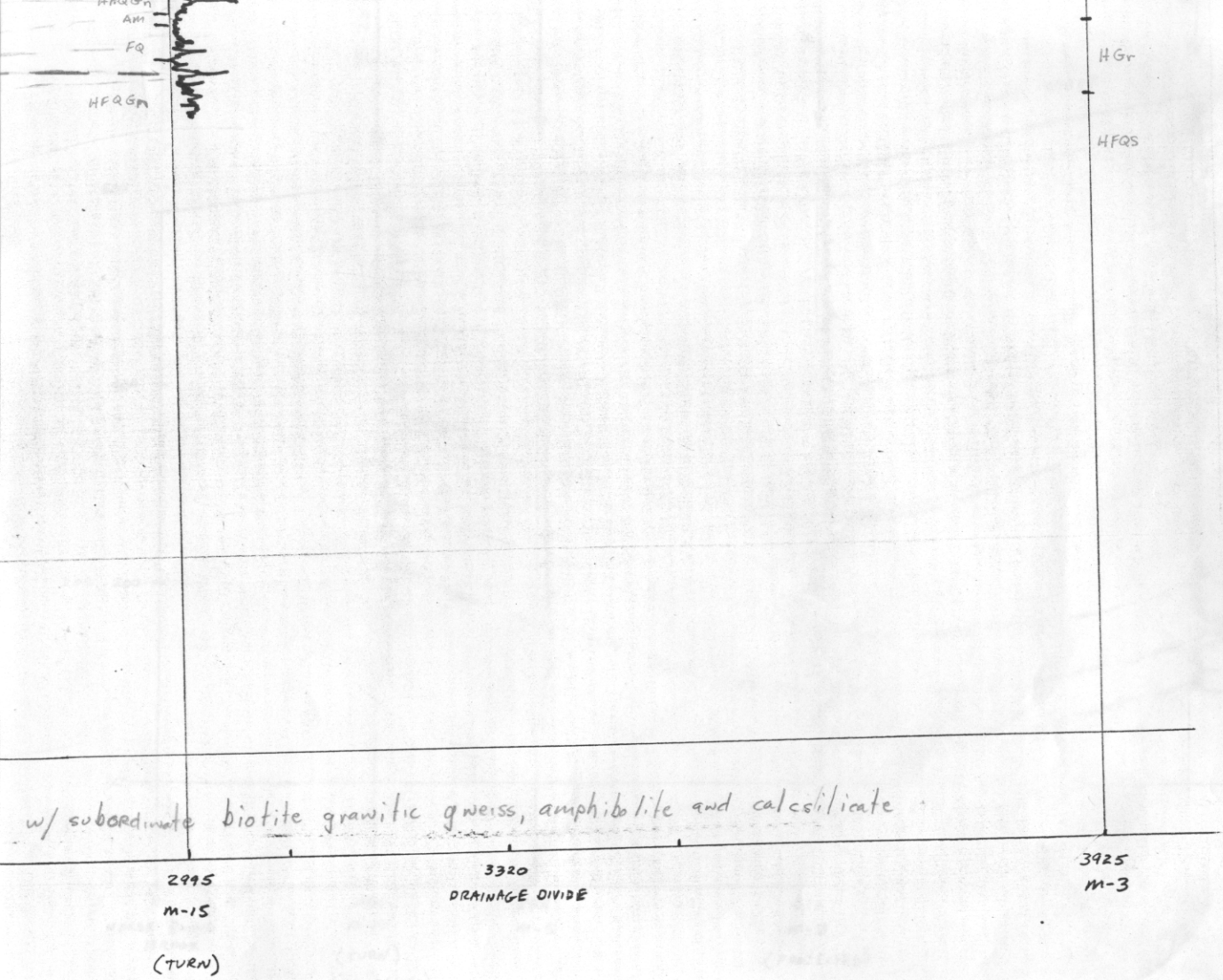
bg bqpc

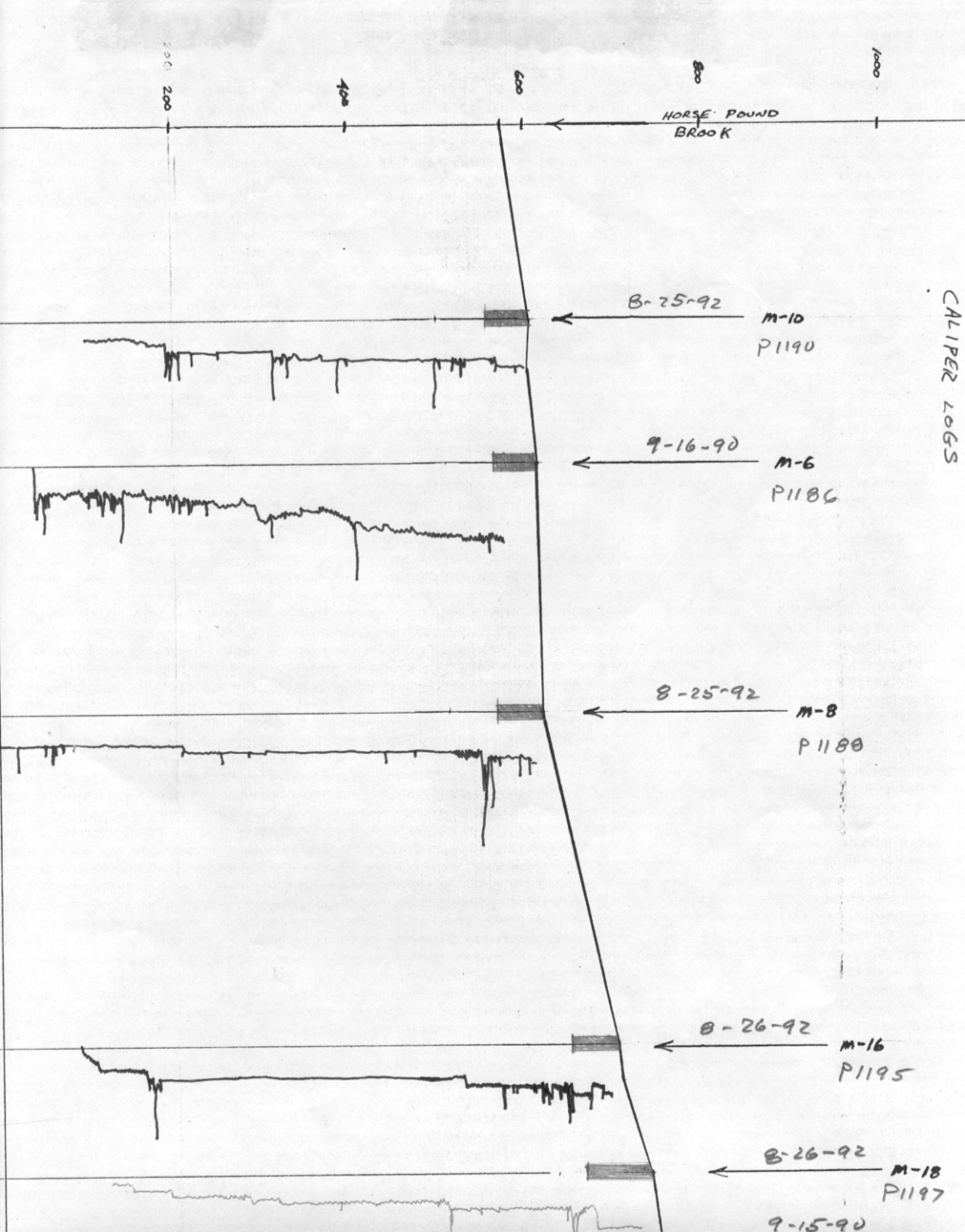
Biotite-quartz plagioclase gneiss w/

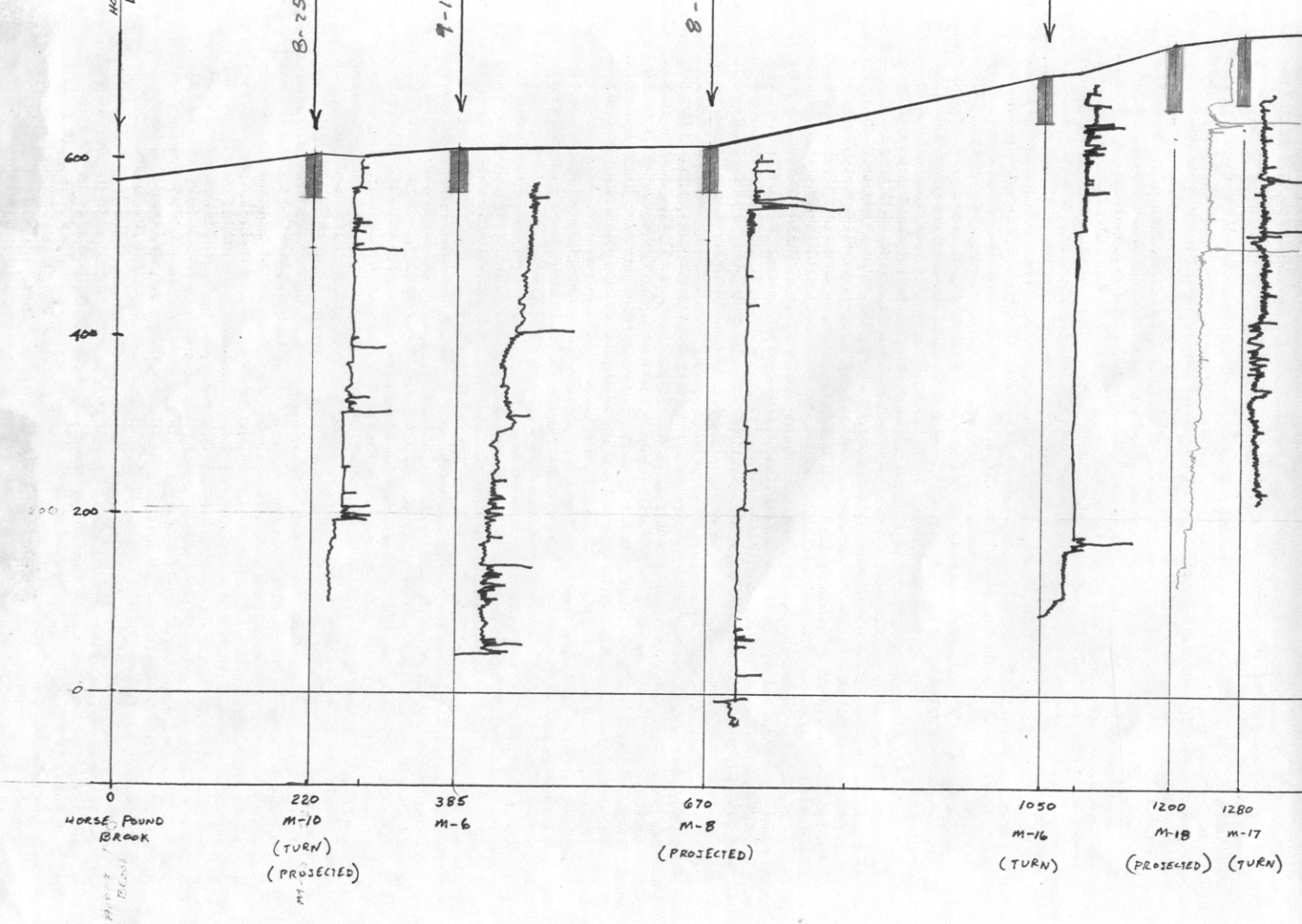
1920
M-1
(TURN)

2335
M-5
(TURN


HFQGr
FQ
AM
HFQGr
AM
8-26-92
M-15
P1194
DRAINAGE
DIVIDE
M-3
P1184
HFQS
HGr
HFQS
HGr


HAQGn
AM
FQ
HFQGn
HGr
HFQS
w/ subordinate biotite granitic gneiss, amphibolite and calcsilicate
2995
M-15
(TURN)
3320
DRAINAGE DIVIDE
3925
M-3


200
400
600
800
1000
HORSE POUND BROOK
8-25-92
M-10
P1190
9-16-90
M-6
P1186
8-25-92
M-8
P1188
8-26-92
M-16
P1195
8-26-92
M-18
P1197
9-15-90
CALIPER LOGS


B-25
M-1
B-
600
400
200
0
0
HORSE POUND BROOK
220
M-10
(TURN)
(PROJECTED)
385
M-6
670
M-8
(PROJECTED)
1050
M-16
(TURN)
1200
M-18
(PROJECTED)
1280
M-17
(TURN)

P1197

9-15-90 M-17

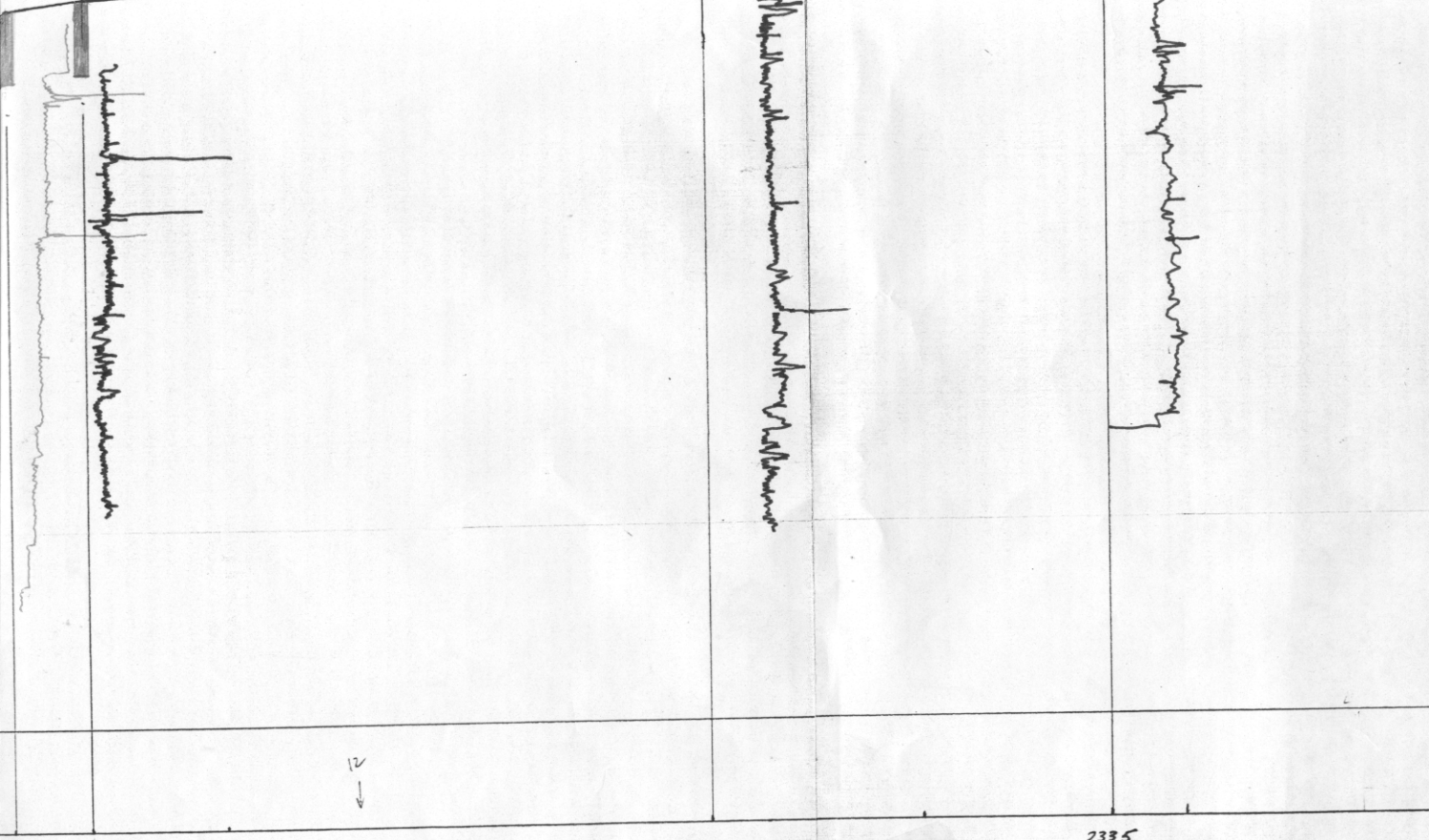
P1196

9-16-90 M-1

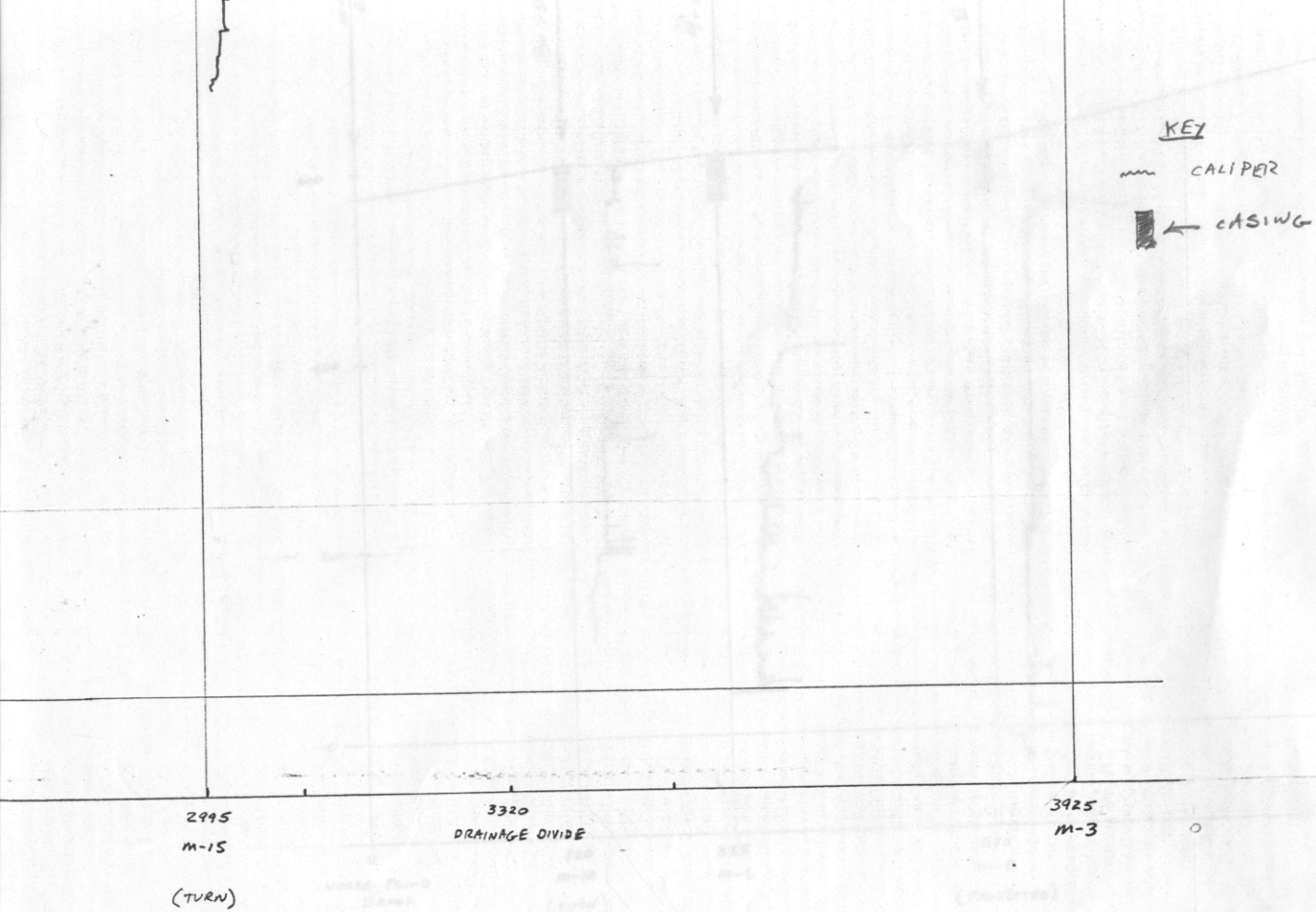
P1182

9-16-90 M-

P1


12
1200
M-18
(EJECTED)
1280
M-17
(TURN)
1920
M-1
(TURN)
2335
M-5
(TURN

8-26-92
CAL
DRAINAGE
DIVIDE
KEY
CALIPER
CASING

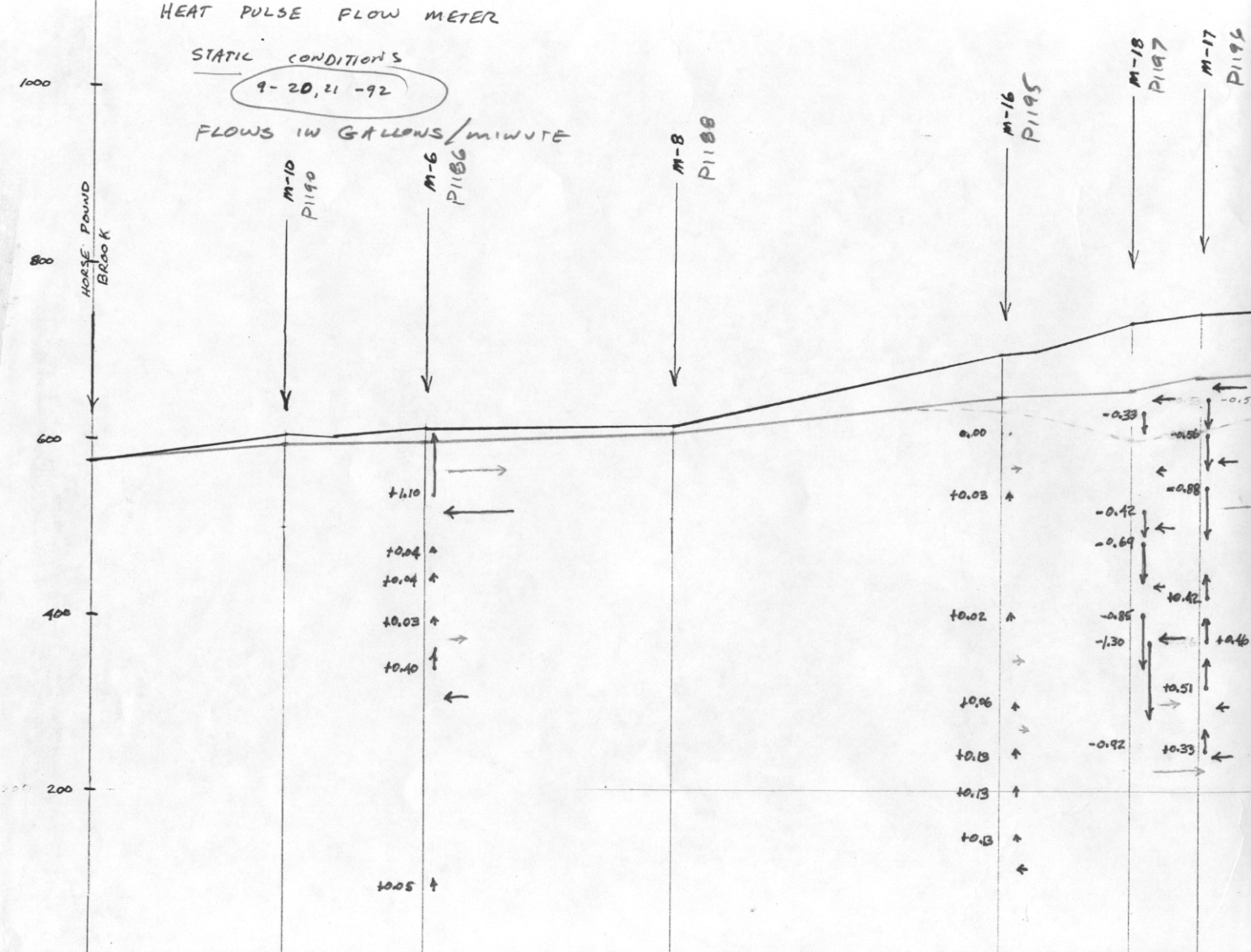

KEY
CALIPER
CASING
2995
M-15
(TURN)
3320
DRAINAGE DIVIDE
3925
M-3

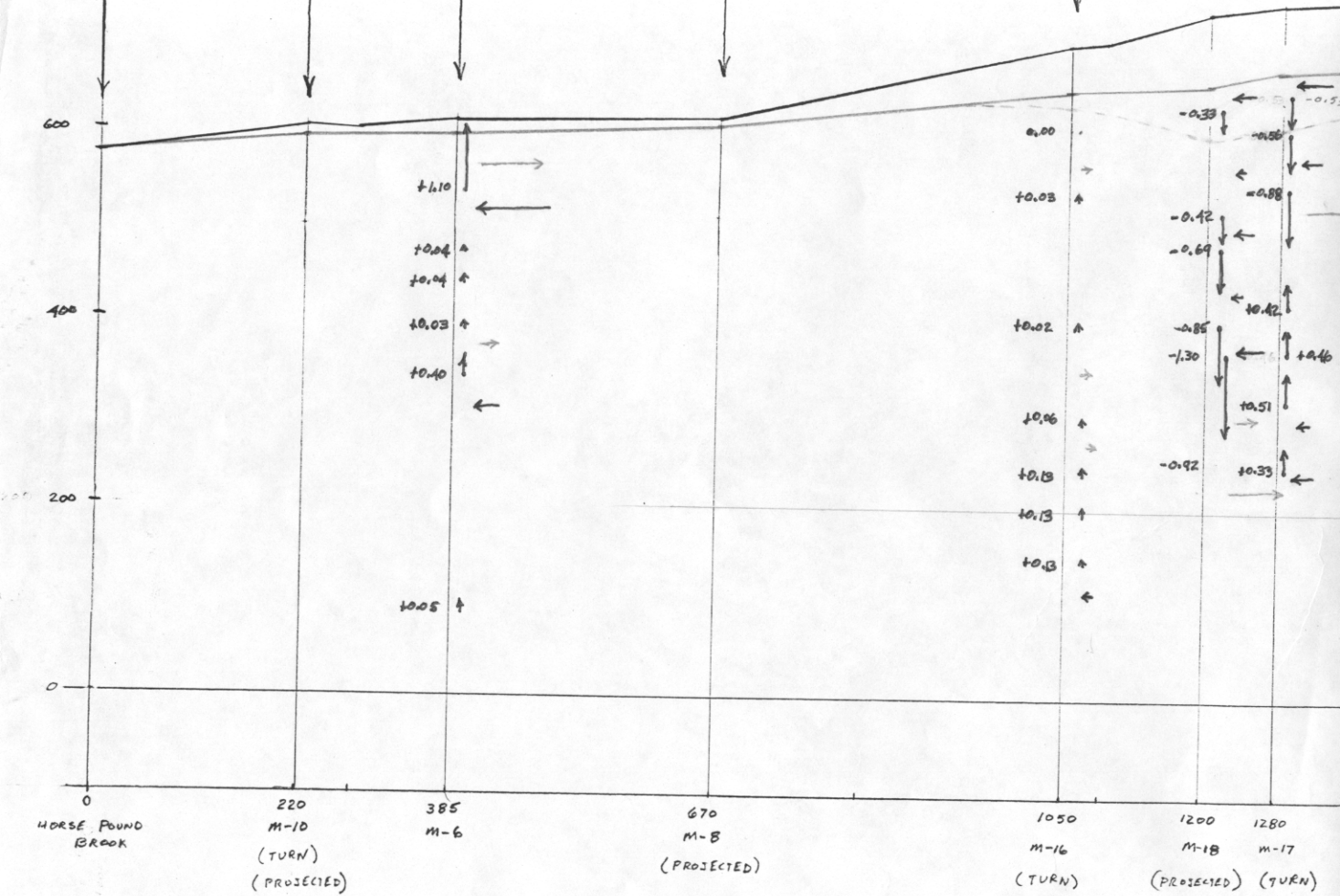
HEAT PULSE FLOW METER

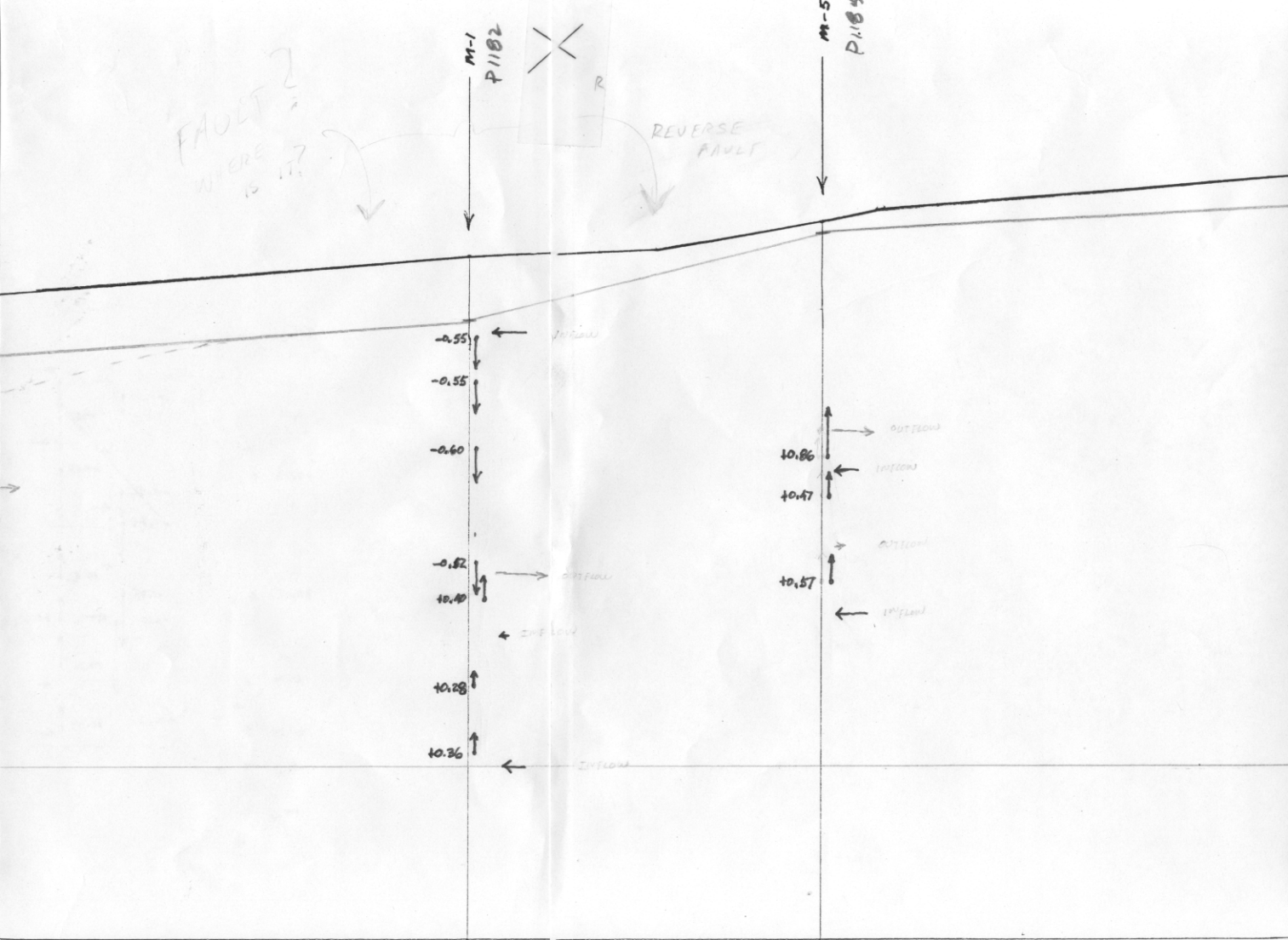
STATIC CONDITIONS

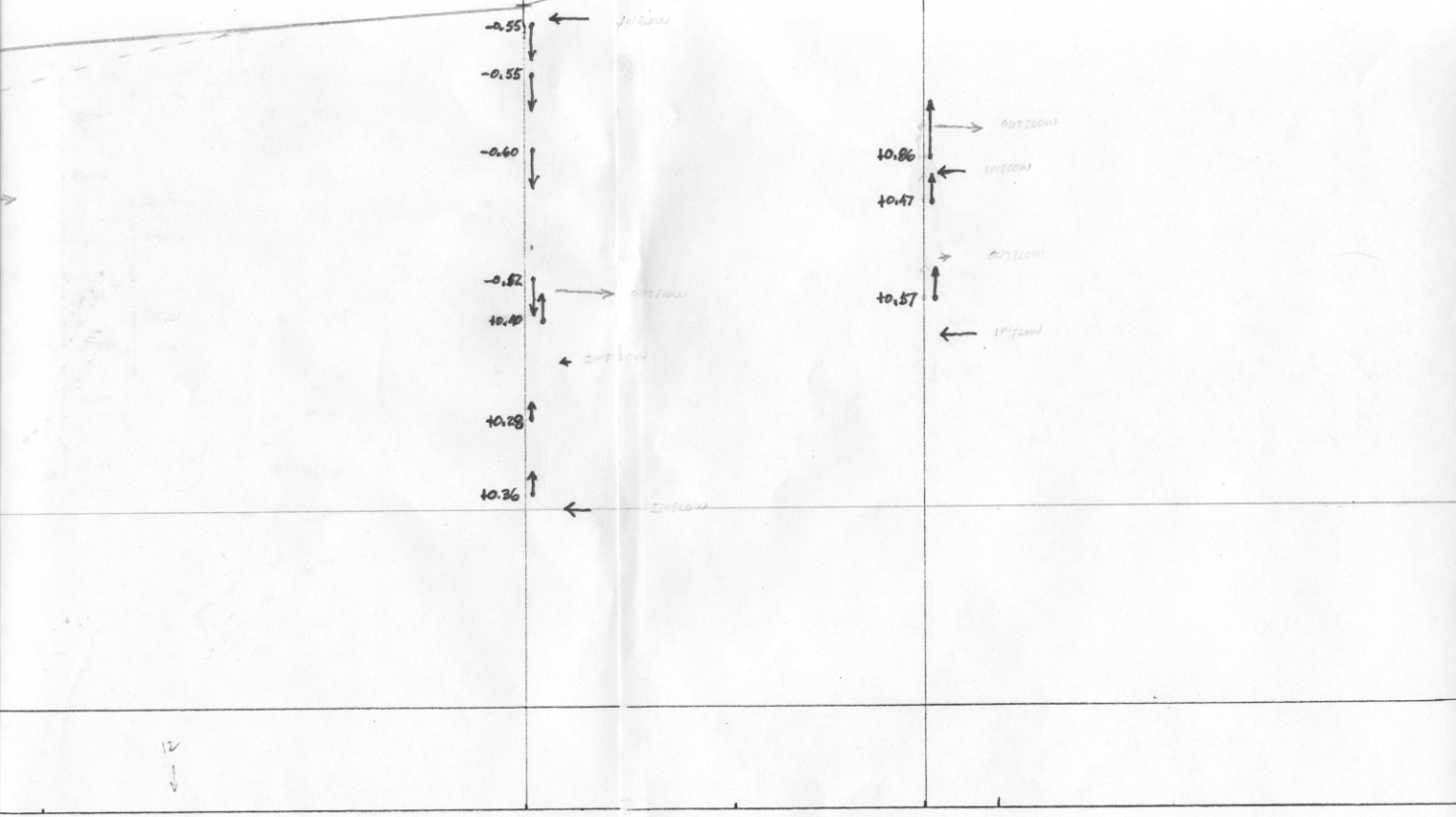
9-20,21-92

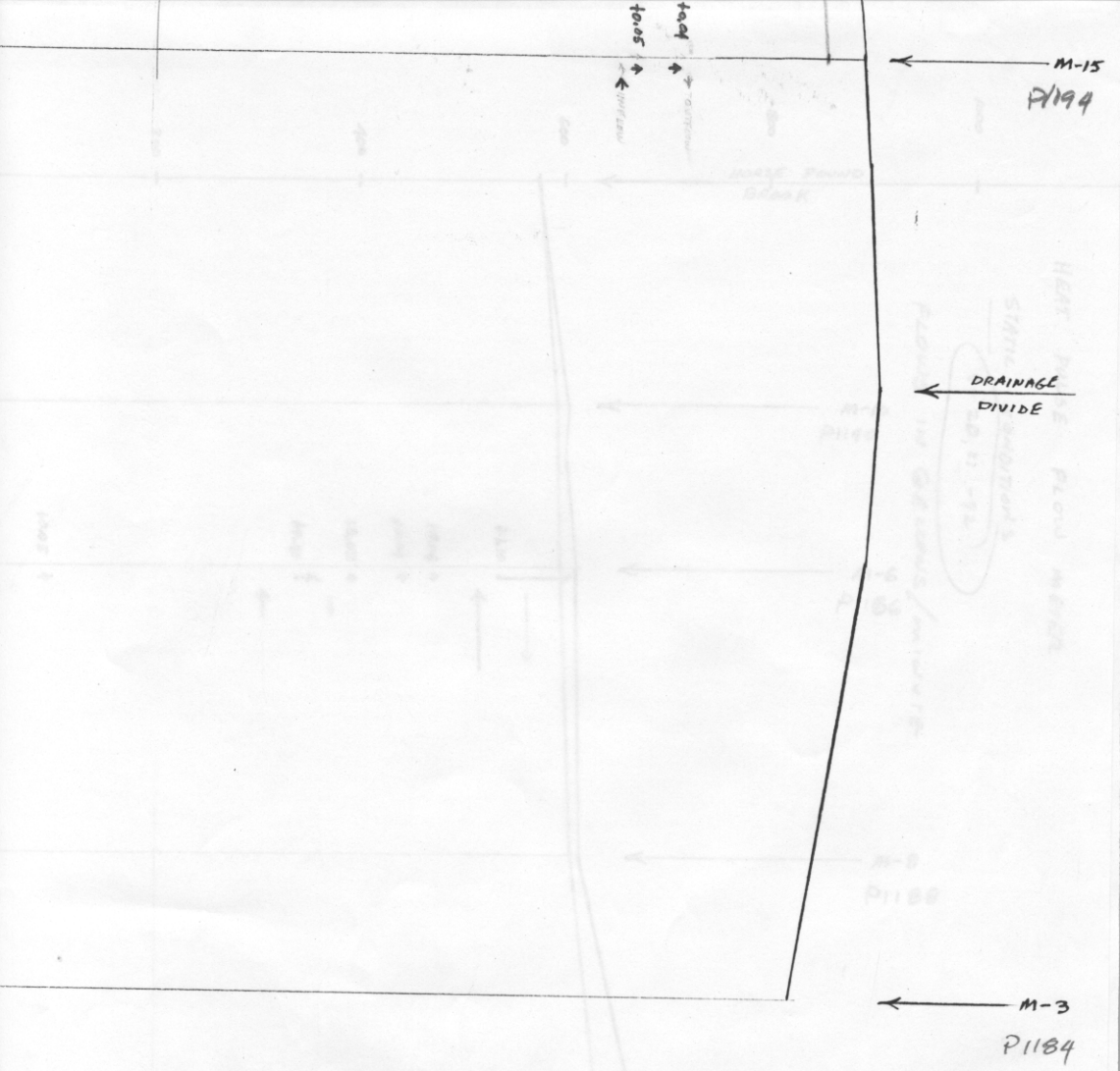
FLOWS IN GALLONS/MINUTE

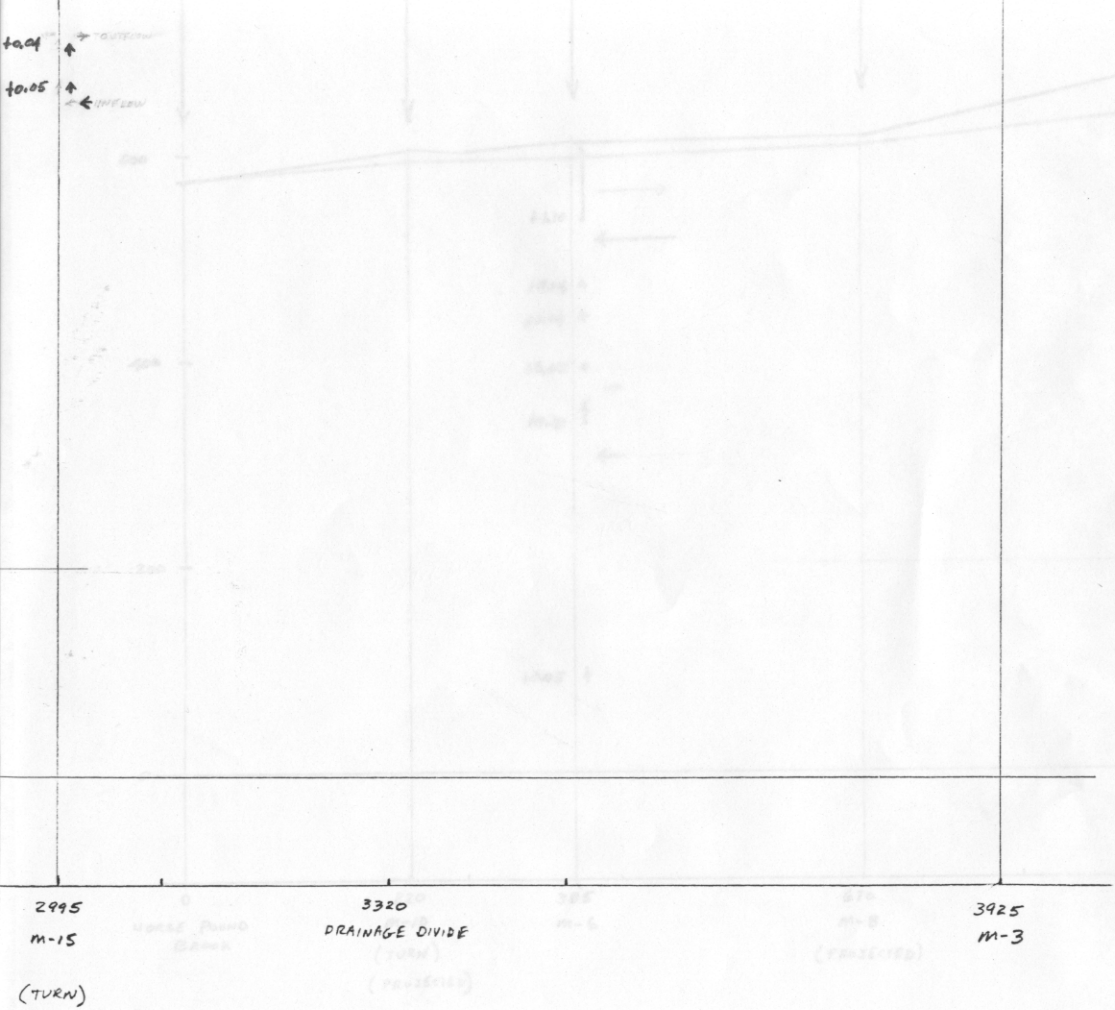


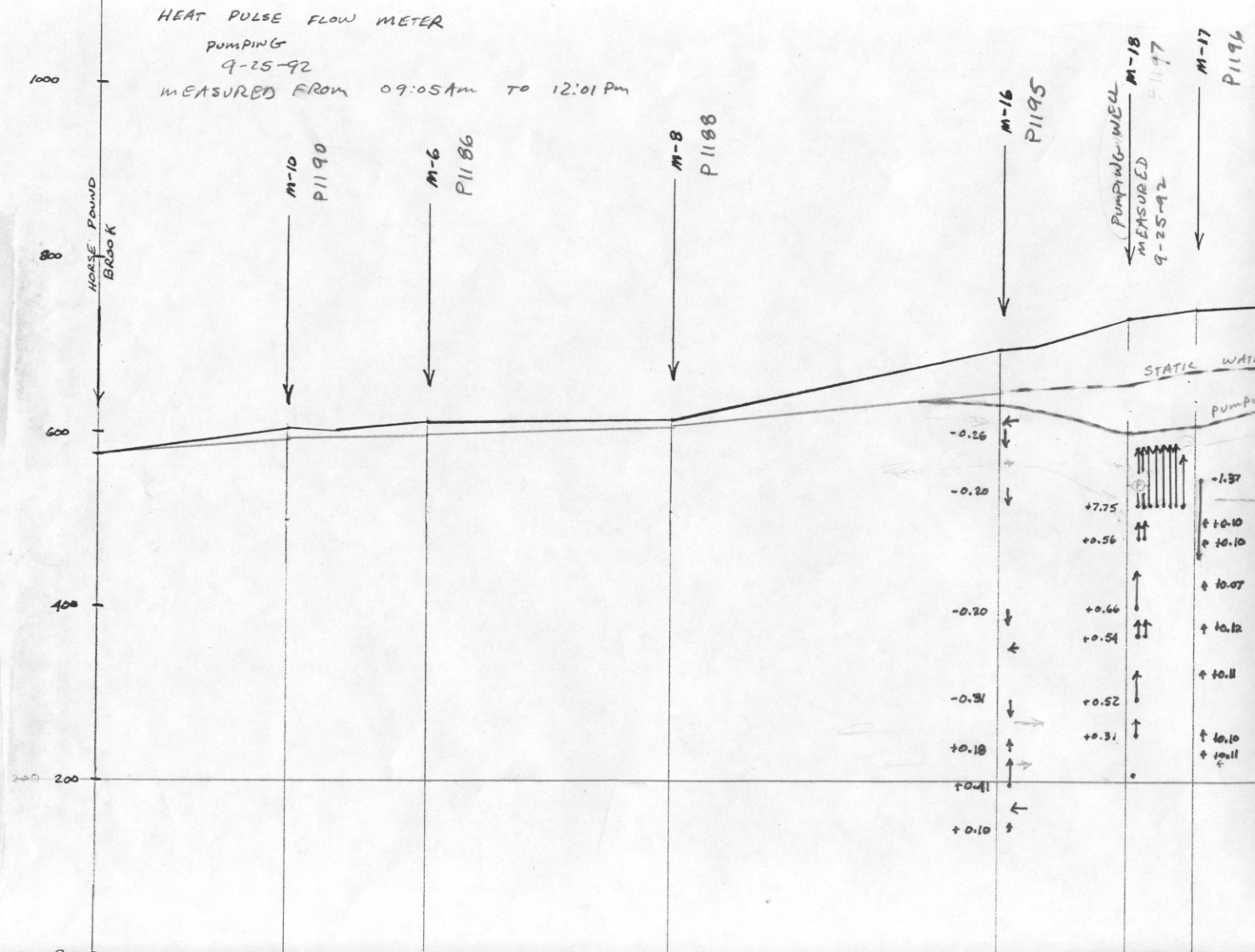

600
400
200
0
+1.10
+0.04
+0.04
+0.03
+0.10
+0.05
0.00
+0.03
+0.02
+0.06
+0.13
+0.13
+0.13
-0.33
-0.56
-0.88
-0.42
-0.69
+0.42
-0.85
-1.30
+0.46
+0.51
-0.92
+0.33
0
HORSE POUND BROOK
220
M-10
(TURN)
(PROJECTED)
385
M-6
670
M-8
(PROJECTED)
1050
M-16
(TURN)
1200
M-18
(PROJECTED)
1280
M-17
(TURN)

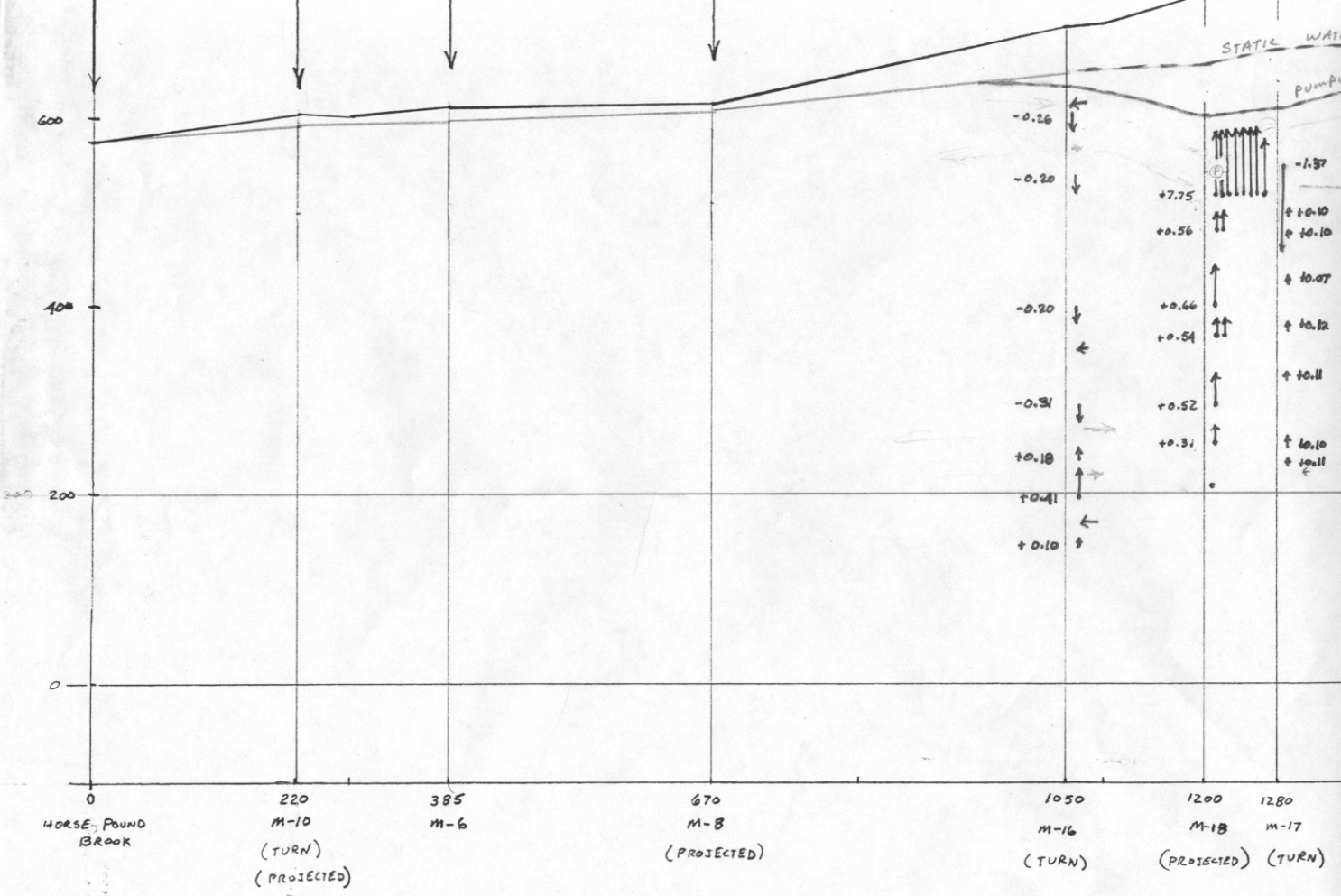

M-1
P1182
R
FAULT ?
WHERE IS IT?
REVERSE FAULT
M-5
P1184
-0.55
INFLOW
-0.55
-0.60
-0.62
+0.40
INFLOW
INFLOW
+0.28
+0.36
INFLOW
OUTFLOW
+0.86
INFLOW
+0.47
OUTFLOW
+0.57
INFLOW

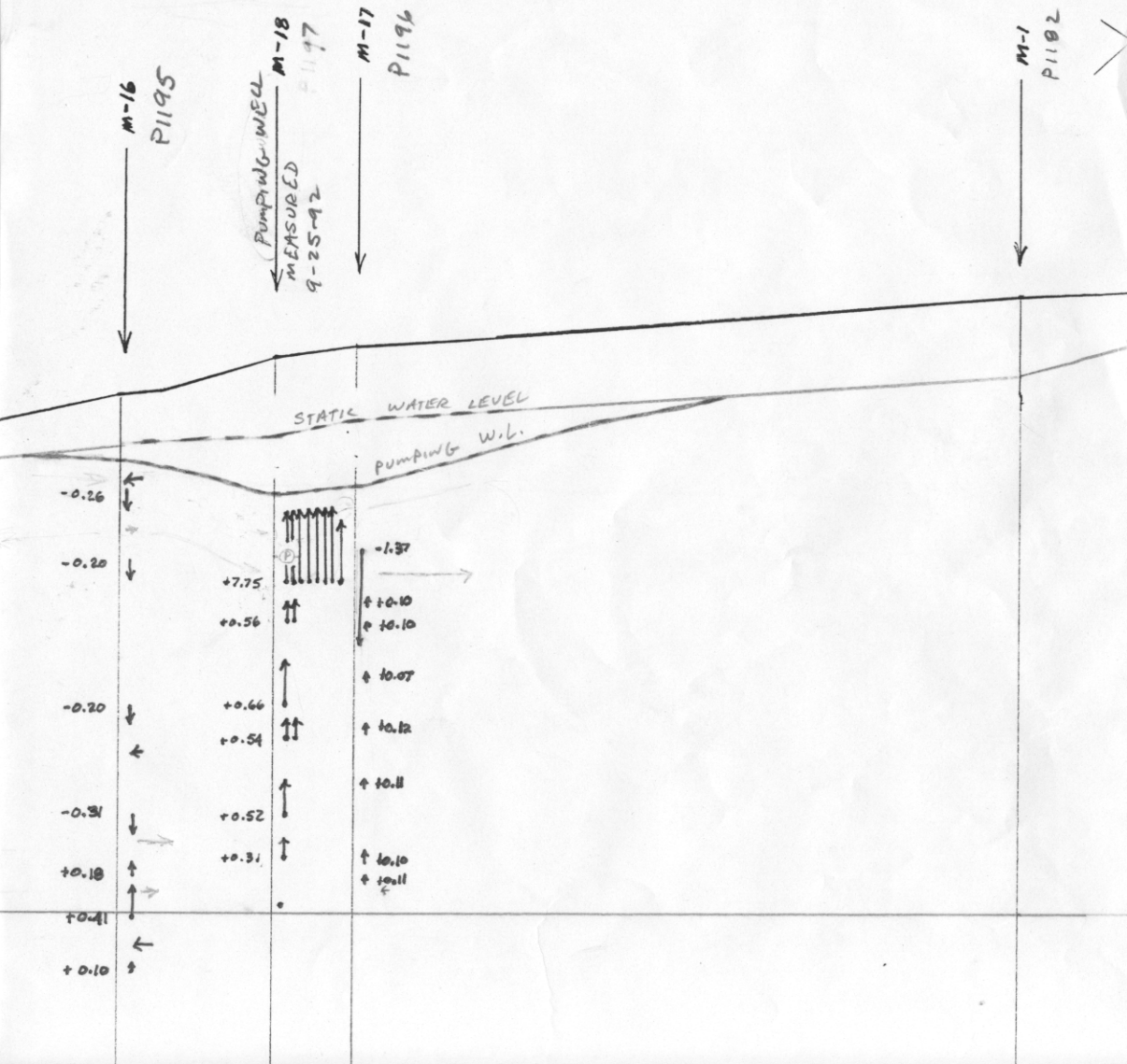

-0.55
INFLOW
-0.55
-0.60
-0.82
OUTFLOW
+0.49
INFLOW
+0.28
+0.36
INFLOW
OUTFLOW
+0.86
INFLOW
+0.47
OUTFLOW
+0.57
INFLOW
12
1920
M-1
(TURN)
2335
M-5
(TURN

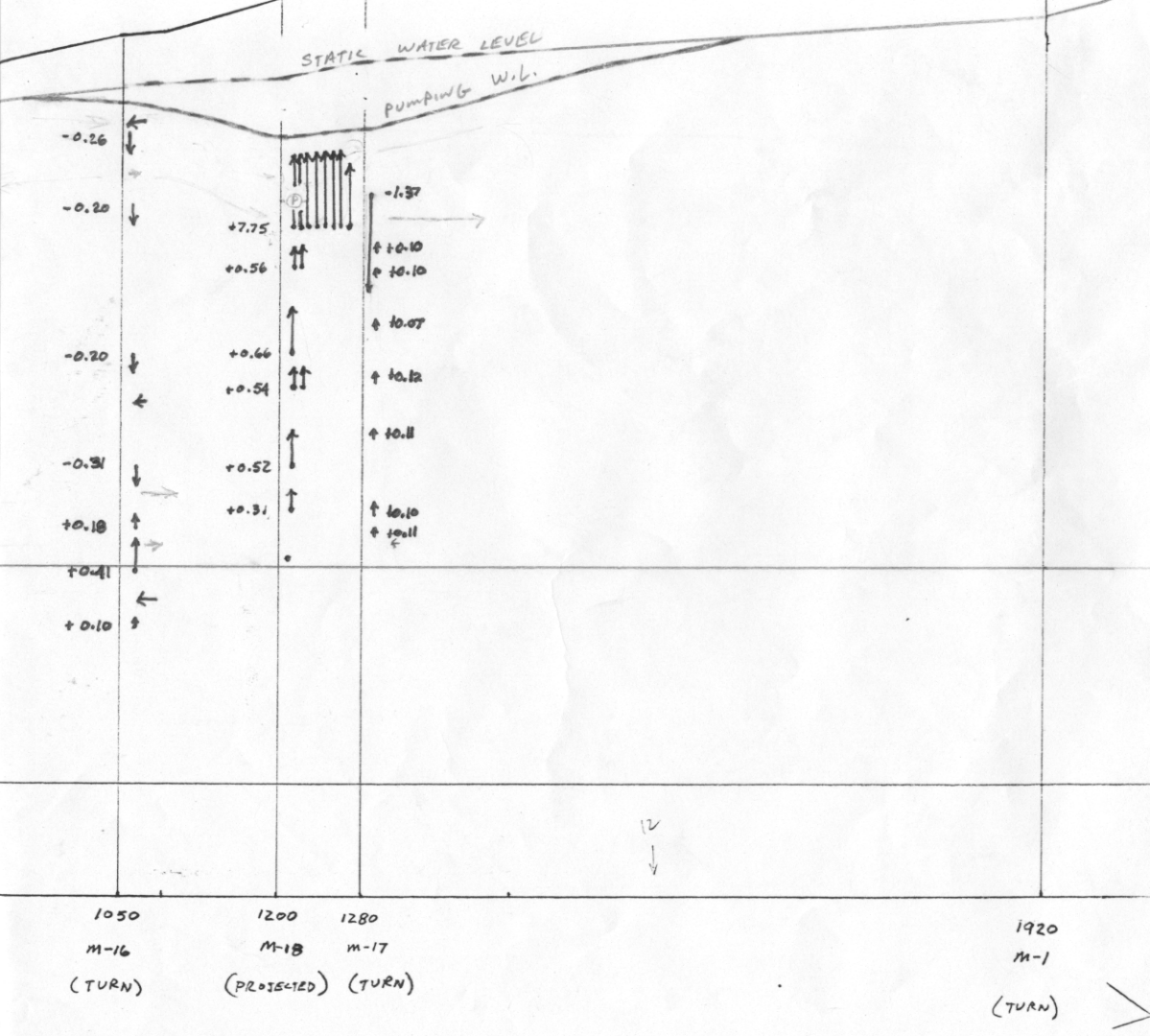

M-15
P1194
DRAINAGE
DIVIDE
M-3
P1184

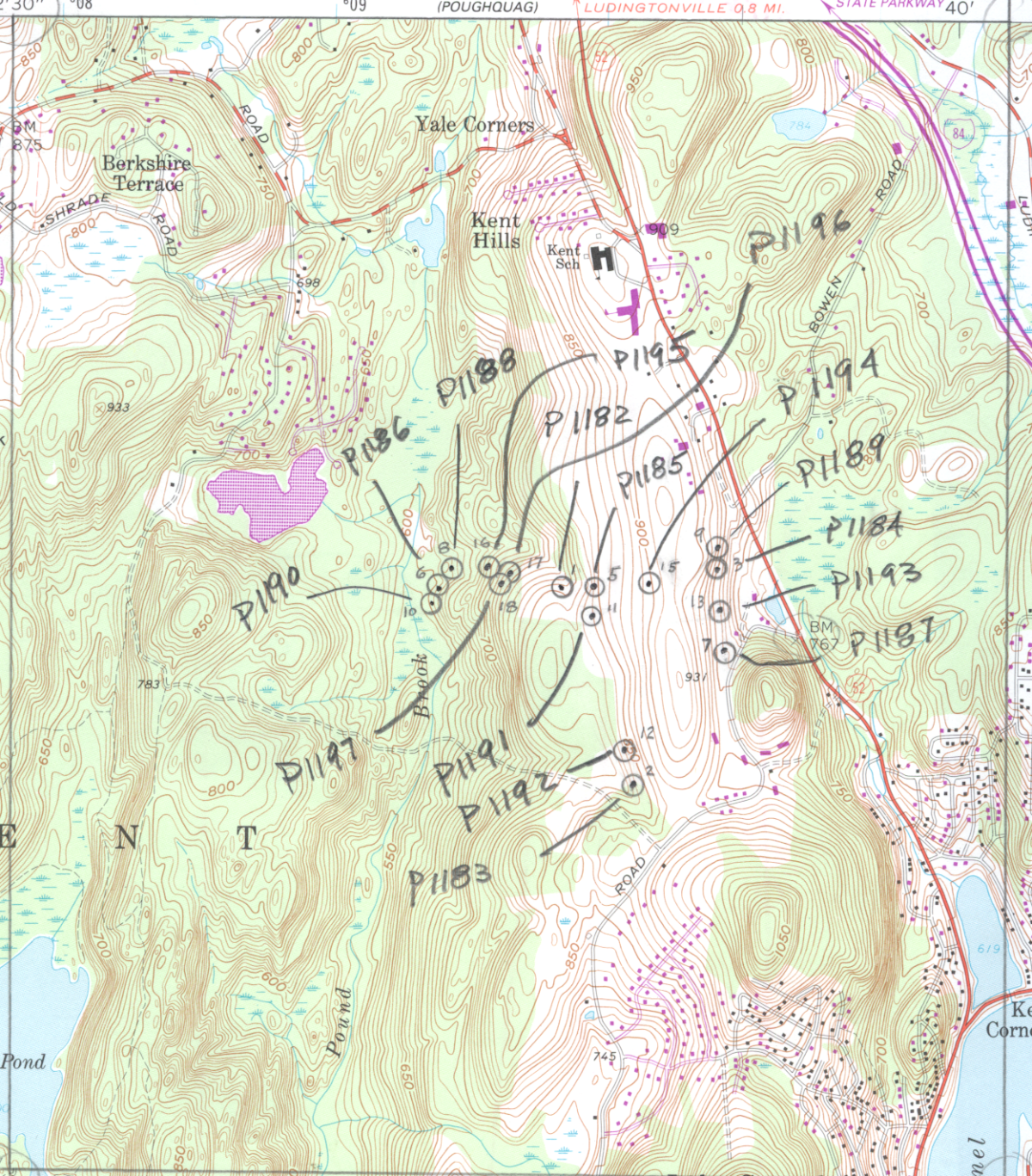

+0.04
+0.05
2995
M-15
3320
DRAINAGE DIVIDE
3925
M-3
(TURN)


HEAT PULSE FLOW METER
PUMPING
9-25-92
MEASURED FROM 09:05AM TO 12:01 PM
1000
800
600
400
200
HORSE POUND BROOK
M-10
P1190
M-6
P1186
M-8
P1188
M-16
P1195
PUMPING WELL
M-18
MEASURED
9-25-92
M-17
P1196
STATIC WATE
pumpi
-0.26
-0.20
-0.20
-0.31
+0.18
+0.41
+0.10
+7.75
+0.56
+0.66
+0.54
+0.52
+0.31
-1.37
+0.10
+0.10
+0.07
+0.12
+0.11
+0.10
+0.11


STATIC WATE
PUMPE
600
400
200
0
-0.26
-0.20
-0.20
-0.31
+0.18
+0.41
+0.10
+7.75
+0.56
+0.66
+0.54
+0.52
+0.31
-1.37
+0.10
+0.10
+0.07
+0.12
+0.11
+0.10
+0.11
0
HORSE POUND BROOK
220
M-10
(TURN)
(PROJECTED)
385
M-6
670
M-8
(PROJECTED)
1050
M-16
(TURN)
1200
M-18
(PROJECTED)
1280
M-17
(TURN)


M-16
P1195
PUMPING WELL
M-18
MEASURED
9-25-92
M-17
P1196
M-1
P1182
STATIC WATER LEVEL
PUMPING W.L.
-0.26
-0.20
-0.20
-0.31
+0.18
+0.41
+0.10
+7.75
+0.56
+0.66
+0.54
+0.52
+0.31
-1.37
+0.10
+0.10
+0.07
+0.12
+0.11
+0.10
+0.11


STATIC WATER LEVEL
PUMPING W.L.
-0.26
-0.20
-0.20
-0.31
+0.18
+0.41
+0.10
+7.75
+0.56
+0.66
+0.54
+0.52
+0.31
-1.37
+0.10
+0.10
+0.07
+0.12
+0.11
+0.10
+0.11
1050
M-16
(TURN)
1200
M-18
(PROJECTED)
1280
M-17
(TURN)
1920
M-1
(TURN)


(POUGHQUAG)
LUDINGTONVILLE 0.8 MI.
STATE PARKWAY
Yale Corners
Berkshire Terrace
SHRADE ROAD
Kent Hills
Kent Sch
BOWEN ROAD
BM 875
BM 767
Brook
Pond
ROAD
P1196
P1195
P1194
P1188
P1182
P1189
P1186
P1185
P1184
P1190
P1193
P1187
P1197
P1191
P1192
P1183

GENERAL

	WELL	DEPTH TO WATER	TIME	DATE	REMARKS	
STATIC	M-17	78.88	1055	9-20-92	STATIC	P1197
	M-6	15.16	1140	"	"	P1186
	M-10	12.32	1155	"	"	P1190
	M-8	10.63	1220	"	"	P1188
	M-16	46.39	1420	"	"	P1195
	M-18	72.68	1425	"	"	P1187
	M-1	73.01	1750	"	CASCADING "	P1182
	M-5	19.31	1300	9-21-92	"	P1185
	M-11	18.94	1255	"	"	P1191
	M-14	32.53	1315	"	"	NONE
	M-15	38.72	1710	"	"	P1194
	M-18	72.62	0845	9-22-92	"	P1197
	"	118.24	1010	"	-45.62 @ 65 MIN	
	"	126.40	1105	"	-52.28 @ 120 MIN	
	"	132.14	1205	"	-59.52 @ 180 MIN	
	"	135.12	1250	"	-63.49 @ 225 MIN	
	"	140.90	1540	"	-68.28 @ 375 MIN	
	"	142.68	1710	"	-70.06 @ 485 MIN	
	"	147.52	1000	9-23-92	-74.90	
	"	148.50	1415	"	-75.88	

GENERAL

2 OF 9

	WELL	DEPTH TO WATER	TIME	DATE	REMARK	
~30 HRS	M-16	65.50	1440	9-23-92	-18.11	— P1195
	M-8	10.85	1445	"	-0.22	— P1188
	M-6	15.21	1450	"	-0.05	— P1186
	M-10	12.28	1455	"	+0.04	— P1190
	M-18	?? 148.92	1500	"	?? -76.30	— P1197
	M-17	138.09	1515	"	CASCADING -59.21	— P1196
	M-1	73.23	1525	"	CASCADING -0.22	— P1182
	M-5	19.22	1535	"	+0.12	— P1185
	M-11	18.79	1540	"	+0.15	— P1191
	M-14	32.70	1550	"	-0.17	— WOWE
	M-15	39.09	1555	"	-0.37	— P1194
	M-18	148.61	1610	9-23-92	-75.99	P1197
	"	148.61	1620	"	-75.99	
	"	148.88	1745	"	-76.26	
	"	148.92	0750	9-24-92	-76.30	
	M-17	138.72	0755	9-24-92	CASCAD. -59.84	— P1196
	M-18	149.92	1115	"		— P1197
	M-17	139.40	1125	"		— P1196
	M-17	139.46	1135	"	SHIELDED	— P1196
	M-17	139.42	1200	"	SHIELD ADJUST	— P1196

GENERAL

3 OF 9

	WELL	DEPTH TO WATER	TIME	DATE	REMARK	
~51 HRS	M-1	73.50	12:35	9/24	CASCADING -0.49	— P1182
	M-11	18.92	12:44	"	+0.02	— P1191
	M-5	19.31	12:47	"	+0.03	— P1185
	M-14	32.82	12:53	"	-0.29	— NONE
	M-15	39.30	12:59	"	-0.58	— P1194
	M-16	66.90	13:20	"	-19.51	— P1195
	M-8	11.17	13:25	"	-0.54	— P1188
	M-6	15.28	13:27	"	-0.12	— P1186
	M-10	12.38	13:40	"	-0.06	— P1190
	M-17	134.58	15.15	"	CASCAD -61.50	— P1196
	M-18	150.01	15.20	"	-77.38	— P1197
	M-18	149.32	1850	9-24-92		— P1197
A-500	M-16	57.74	0705	9-25-92	-11.40	— P1195
A-500	M-10	12.44	0730	"	-0.12	— P1190
A-500	M-6	15.36	0735	"	-0.20	— P1186
2355	M-8	11.06	0740	"	-0.43	— P1188
	M-18	98.40	0750	"	-25.72	— P1197
A-500	M-17	104.80	0755	"	CASCAD. -26.02	— P1196
2408	M-1	73.29	0905	"	CASCAD. -0.28	— P1182
ACE	M-5	19.36	0915	"	-0.02	— P1185
A-500	M-11	19.00	0920	"	-0.06	— P1191

GENERAL

KEY#	WELL	DEPTH TO WATER	TIME	DATE	REMARK
A-500	M-14	32.85	0930	9-25-92	-0.32
A-500	M-15	39.32	0935	"	-0.60
	M-18	123.44	0955	9-25-92	
	"	125.12	1015	"	
	"	127.06	1050	"	
	"	128.20	1110	"	
	"	129.51	1200	"	

— NONE

— P1194

P1197

GENERAL

5 OF 9

P1197

M-18 PUMP DATA SET @ 185

DATE	TIME	REMARK
9-22-92	0905	PUMP ON
	0915	24 GPM
	1545	21 GPM
	2055	PUMP OFF; ⊼; 710 ON MIN
	2310	PUMP ON; - OFF 135 MIN
9-23-92	1010	21 GPM
	1625	20 GPM
9-24-92	0845	20 GPM
	1535	20 GPM
	1145	APPROXIMATE TIME - PUMP OFF
9-25-92	0100	PUMP ON
	0230	APPROXIMATE TIME - PUMP OFF
	0830	PUMP ON 22.5 GPM
	1000	17 GPM
	1045	16.5 GPM
	1120	16.5 GPM

GENERAL

6 OF 9

@ P1197

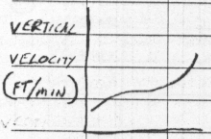
	WEATHER @ CARMEL, NY
DATE	
9-17-92	HOT & HUMID
9-18	HOT & HUMID; COLD FRONT
	PASSAGE @ NIGHT
9-19	CLOUDY AM CLEAR & DRY PM
9-20	CLEAR & DRY
9-21	PARTLY CLOUDY LIGHT SHOWER
	@ NIGHT
9-22	LIGHT DRIZZLE; DRIZZLE STOPS
	@ ABOUT 1200; SW WINDS
	HUMID
	2045
	2310 LIGHT RAIN
9-23	0315 LIGHT RAIN
	1000 CLEAR & COOL
	1745 CLEAR, COOL & BREEZY
9-24	0530 CLEAR & COLD
	1115 CLEAR & COOL, BREEZY
9-25	0320 CLEAR & COLD
	1045 CLOUDY & COOL

GENERAL

@ P1197

EQUATION FOR A 6" PACKED HOLE

$$y = .722x^3 + .0000867x^2 + .928x - .00828$$



RESPONSE TIME (1/SECONDS)

FT/MIN * = GPM

EXAMPLE

$$8.2\,cm \div \left(1200\,\frac{mm}{min} * \frac{1\,min}{60\,sec}\right) = 4.10\,sec$$

RESPONSE TIME = $0.244\,sec^{-1}$

$y = 0.228$ FT/MIN

GENERAL

8 OF 9

© P1197

EQUATION FOR A 6" OPEN HOLE

$Y = 8.46X - 0.0078$

VERTICAL VELOCITY (FT/MIN)

RESPONSE TIME (1/SECONDS)

FT/MIN * = GPM

GENERAL

9 OF 9

QW DATA

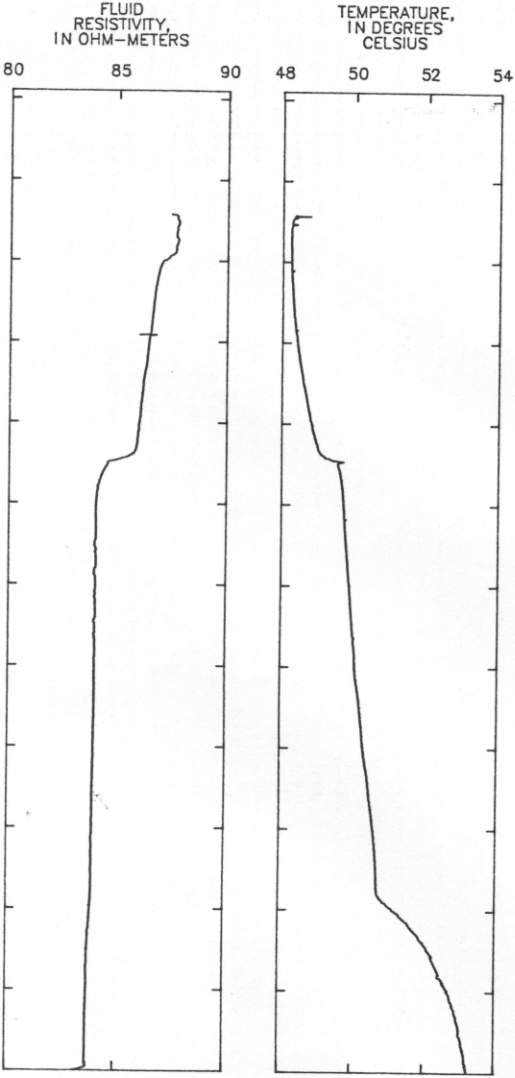
M-18 9-25-92

@ 10:38

TEMP = 10.2°C

SPECIFIC CONDUCTANCE = 156 µS/cm @ 25°C

P1197


FLUID
RESISTIVITY,
IN OHM-METERS
80
85
90
TEMPERATURE,
IN DEGREES
CELSIUS
48
50
52
54

M18

P1197

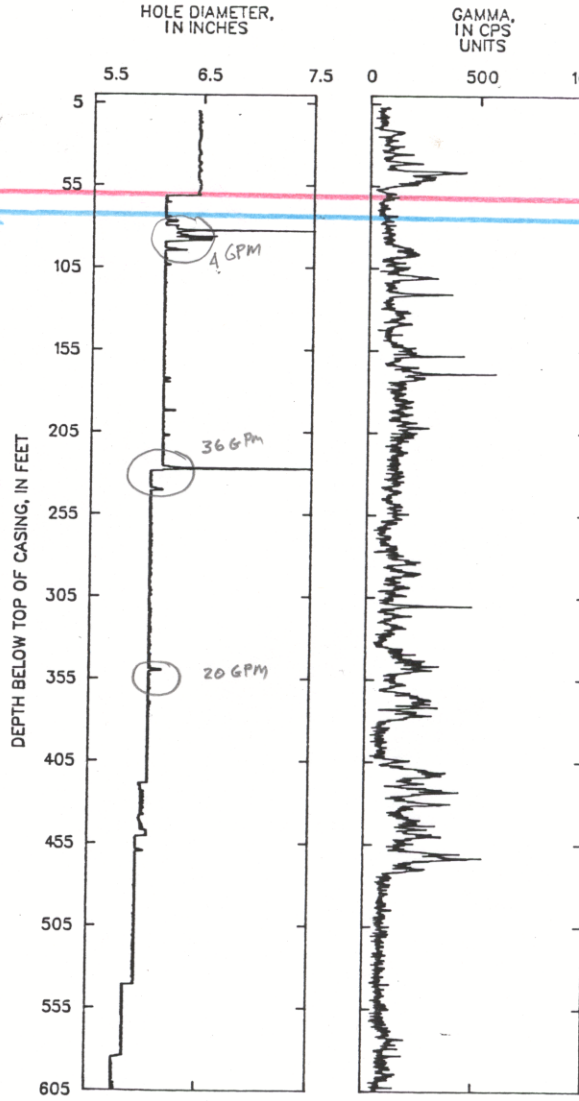
YIELD = 45 GPM

OVERBURDEN = ?

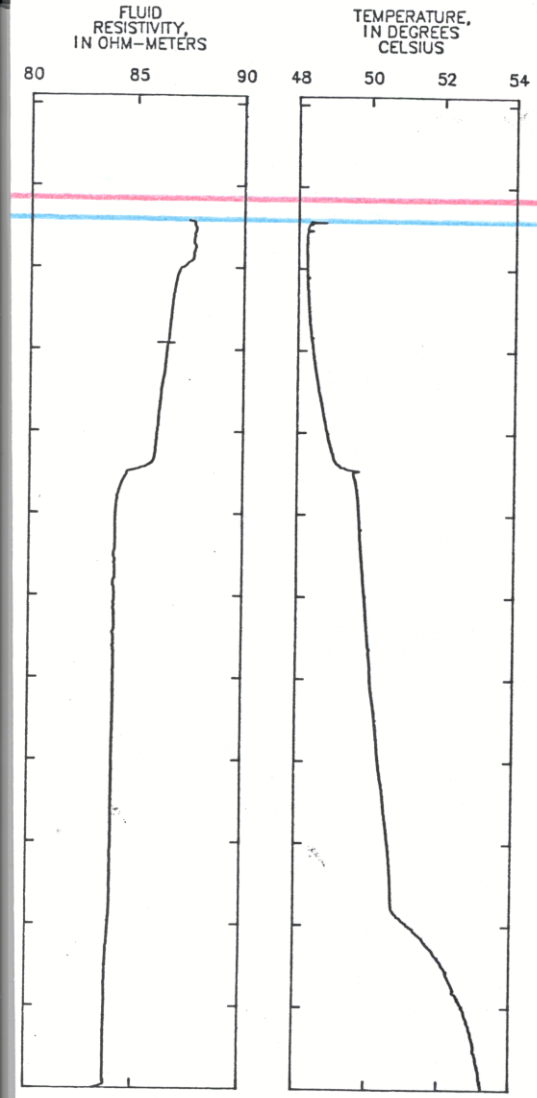
WL = 72.00 8-26-92

@ 1230

CASED = 63 FT



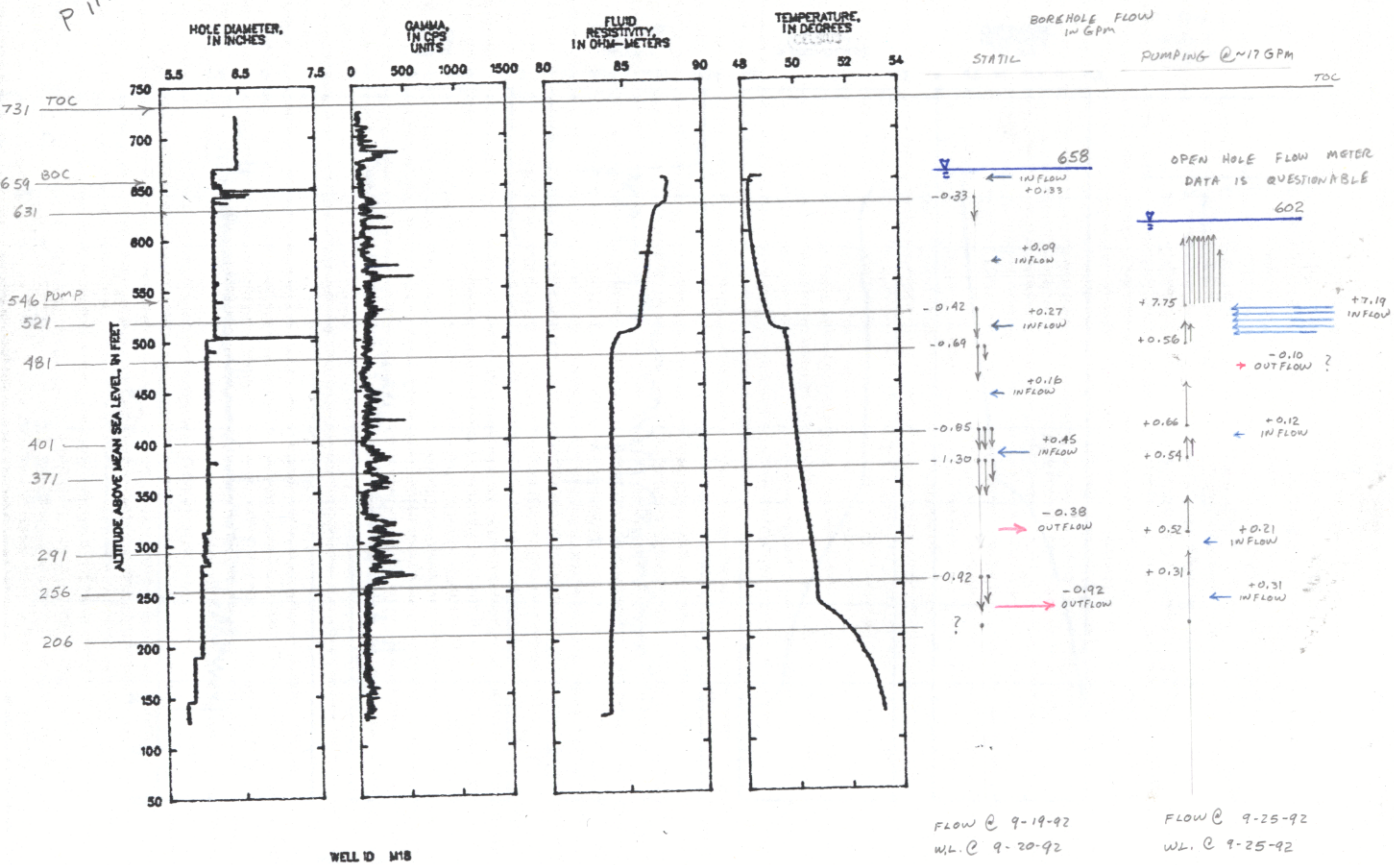
WELL ID M18


FLUID RESISTIVITY, IN OHM-METERS
80
85
90
TEMPERATURE, IN DEGREES CELSIUS
48
50
52
54

M18
731 = TOC
P 1197

41 28 53 073 41 14 01

WL (STATIC) 9-20-92 (PUMPI
FLOW (STATIC) 9-19-92 (PUMPING)
LOGGED 8-26-92



well 18

✓ WELL OWNER J. G Carmel DATE 10-13-88

ALT ≅ 729

TELEPHONE #

WELL LOCATION The Meadows
Horsepound Rd.
Kent -

DEPTH 610

CASING 63' of 6"

DRIVE SHOE /

SET-UP

STATIC

OTHER 2 Bags of Portland

TEST 45 GPM

COMMENTS

FORMATION DESCRIPTION

1-38 Tan Hardpan
38 Soft ledge 45' Hard
ledge granite 46-63 Solid
Granite 75, 89 & 90
Brown seams w a little water
227-229 Major Fracture

DRILLER Mutch DV

B-

Please see P1197 (USGS Miscellaneous Other ID) for composite cross-sectional logs for the following log types, observation wells and field notes;

Observation Wells

USGS #	Field #
P1184	M3
P1194	M15
P1185	M5
P1182	M1
P1196	M17
P1197	M18
P1195	M16
P1188	M8
P1186	M8
P1190	M10

Log Types

Fluid Resistivity
Single Point Resistance
Temperature
Heat Pluse Flowmeter – Static Conditions
Heat Pluse Flowmeter – Pumping Conditions
Caliper

Field Notes