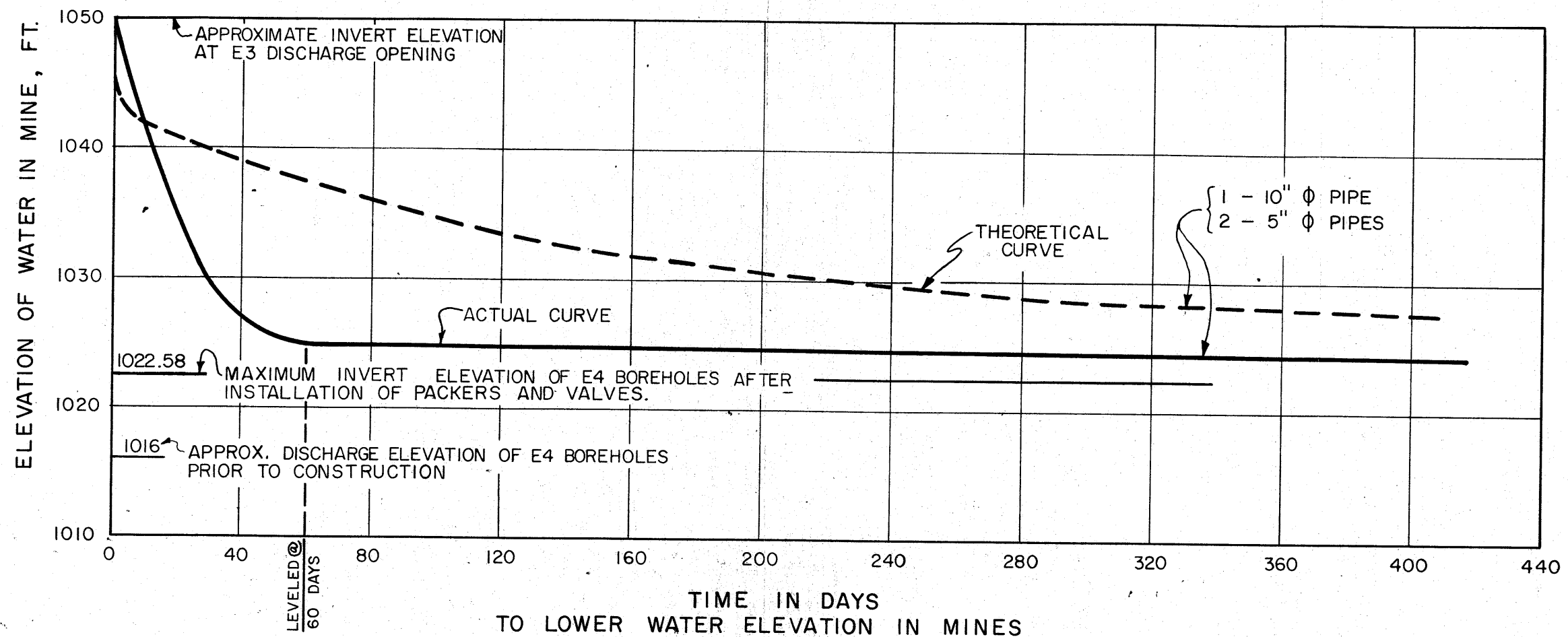


E. D. Appolonia Consulting Engineers, Inc.

FIGURES



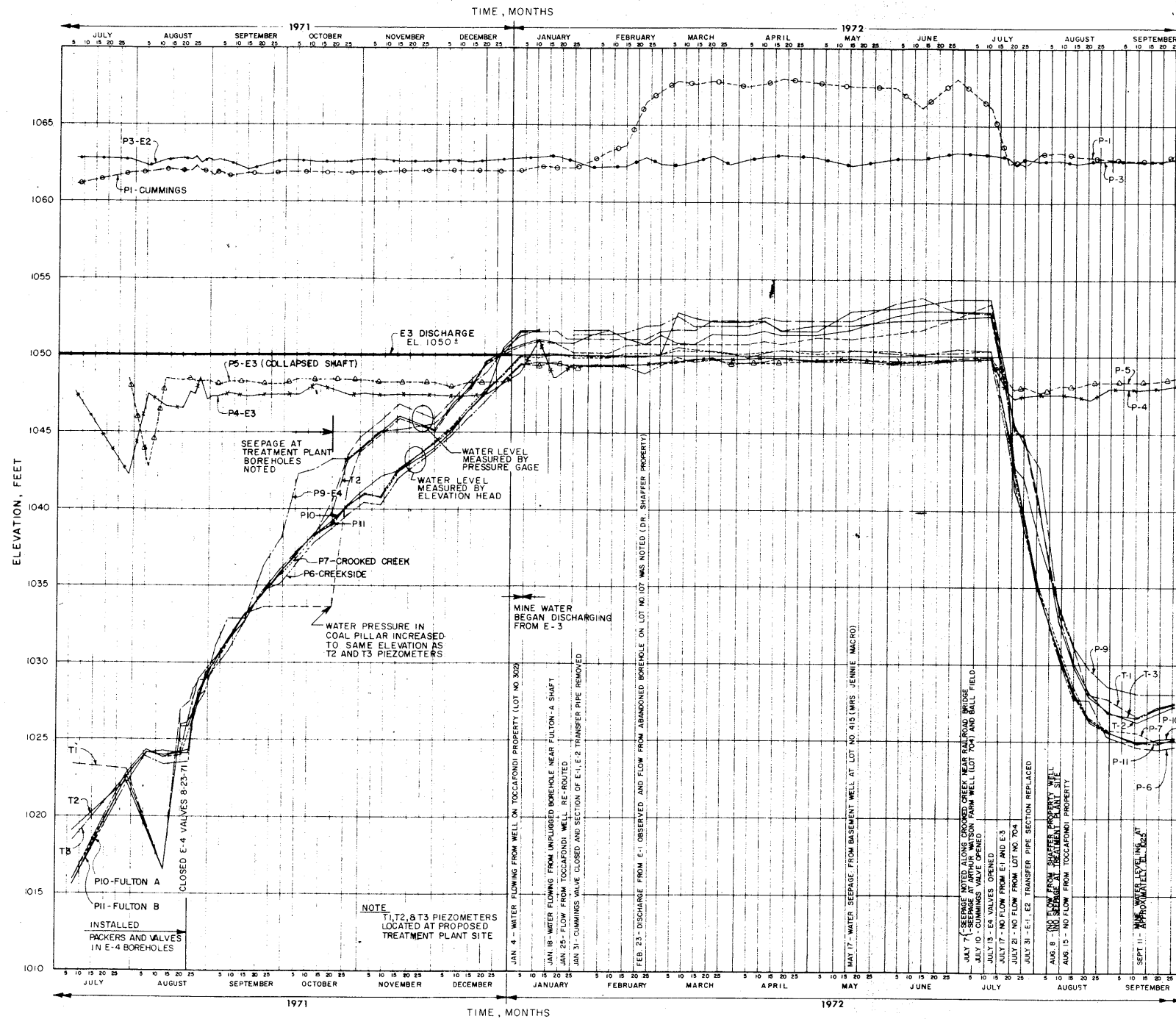
NOTES:

1. 10 INCH DIAMETER PIPE INSTALLED IN EXISTING 16 INCH DIAMETER BOREHOLE.
2. 5 INCH DIAMETER PIPES INSTALLED IN TWO EXISTING 8 INCH DIAMETER BOREHOLES.
3. SEE E.D.C.:E. DWG. NO.70-108-M15 FOR CONSTRUCTION DETAILS AT THE E4 BOREHOLE WORK AREA.
4. ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.
5. ALL VALVES OPENED ON JULY 13, 1972. MINE WATER ELEVATION LEVELED TO APPROXIMATELY EL. 1025.0 ON SEPT. 11, 1972 (60 DAY DURATION)

RATE OF DECREASE OF MINE WATER ELEVATION RESULTING FROM DISCHARGE AT THE E-4 BOREHOLES WITH ALL VALVES FULLY OPEN.

REVISION
 REMOVED CASE NOS. 1 & 3 CURVES. ADDED ACTUAL & THEORETICAL CURVES. 2-7-73

DEPARTMENT OF ENVIRONMENTAL RESOURCES COMMONWEALTH OF PENNSYLVANIA		
E. D'APPOLONIA CONSULTING ENGINEERS, INC.		
15 DUFF ROAD PITTSBURGH, PA. 15235	MR 522B CHESTERTON, IND. 46304	
FLOW CHARACTERISTICS E4 BOREHOLES ERNEST MINE COMPLEX		
DRAWN BY	RGN 12-4-70	DRAWING NO.
CHECKED BY	RGA 1/15/71	70-108-B1
APPROVED BY		



MINE WATER ELEVATION
ERNEST MINE COMPLEX

- LEGEND
- T1
 - T2
 - T3
 - P1
 - P3
 - × P4
 - △ P5
 - P6
 - P7
 - P9
 - P10
 - P11

REVISION
DESCRIPTION
△ ADDED PIEZOMETER DATA FROM JAN 25 TO SEPT 26, 1972, AND 10 SEP 1972 TO 2-7-73

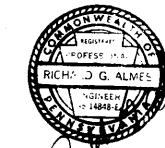
REFERENCE DRAWINGS

PIEZOMETER DETAILS					
ITEM NO	PIEZOMETER NO	LOCATION	APPROX ELEV TOP OF COAL	ELEV AT TOP OF PIEZ PIPE OR VALVE	REMARKS
1	P-1	CUMMINGS SHAFT	1016.3	1071.47(1)	CUMMINGS SHAFT REPRESENTS PIEZOMETER
2	P-2	E-1 ENTRY	-	-	PIEZOMETER NOT INSTALLED
3	P-3	E-2 ENTRY	1056.5	1094.84	
4	P-4	E-3 ENTRY	1038.0	1081.01	
5	P-5	E-3 ENTRY COLLAPSED SHAFT	1038.7	1085.98	
6	P-6	CREEKSIDE BOROUGH	935.0	1076.3	
7	P-7	CROOKED CREEK	924.0	1059.53	
8	P-8	E-4 BOREHOLES	920.0	-	PIEZOMETER NOT INSTALLED
9	P-9	E-4 BOREHOLES	920.0	1018.12	
10	P-10	FULTON A SHAFT	959.0	1041.44	
11	P-11	FULTON B SHAFT	983.5	1056.49	
12	T-1	TREATMENT PLANT	984.0	1037.75	
13	T-2	TREATMENT PLANT	984.06	1035.75	
14	T-3	TREATMENT PLANT	986.42	1037.35	

(1) MEASURED AT TOP OF CUMMINGS SHAFT WALL

NOTES

1. ALL PIEZOMETER READINGS OBTAINED BY PERSONNEL FROM THE COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF ENVIRONMENTAL RESOURCES, EBENSBURG OFFICE. PIEZOMETER DATA AFTER SEPTEMBER 26, 1972, ARE AVAILABLE AT THE EBENSBURG OFFICE.



DEPARTMENT OF ENVIRONMENTAL RESOURCES
COMMONWEALTH OF PENNSYLVANIA

EOCE
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PIEZOMETER MONITORING PROGRAM
ERNEST MINE COMPLEX

DRAWN BY RGN 1-25-72 DRAWING NO. 70-108-M17
CHECKED BY RJA 1-27-72