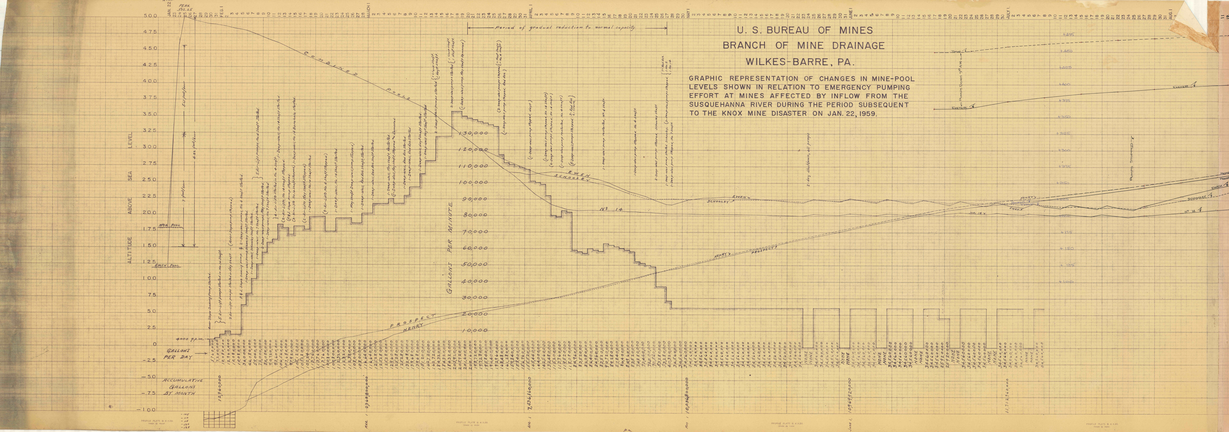

U. S. BUREAU OF MINES
BRANCH OF MINE DRAINAGE
WILKES-BARRE, PA.

GRAPHIC REPRESENTATION OF CHANGES IN MINE-POOL LEVELS SHOWN IN RELATION TO EMERGENCY PUMPING EFFORT AT MINES AFFECTED BY INFLOW FROM THE SUSQUEHANNA RIVER DURING THE PERIOD SUBSEQUENT TO THE KNOX MINE DISASTER ON JAN. 22, 1959.

ALTITUDE ABOVE SEA LEVEL
500
475
450
425
400
375
350
325
300
275
250
225
200
175
150
125
100
75
50
25
0
-25
-50
-75
-100
JAN. 22
PEAK 502.25
FEB. 1
MARCH 1
APRIL 1
MAY 1
JUNE 1
JULY 1
AUG. 1
SEPT. 1
OCT. 1
NOV. 1
DEC. 1
JAN. 1, 1960
FEB. 1, 1960
MAR. 1, '60
APR. 1, '60
5.61 feet/hour
4.82 feet/hour
7 feet/hour
Nº 14 POOL
EWEN POOL
Period of gradual reduction to normal capacity
COMBINED POOLS
EWEN
SCHOOLEY
Nº 14
HENRY
PROSPECT
EXETER
TWIN
EWEN & Nº 14
SCHOOLEY, EWEN, Nº 14
Pumps Down 3rd A.M.
Pumps Stopped
GALLONS PER MINUTE
130,000
120,000
110,000
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
4000 g.p.m.
GALLONS PER DAY
ACCUMULATIVE GALLONS BY MONTH
12,960,000
Apr. 1 2,368,800,000
Apr. 1 7,436,160,000
May 1 10,036,800,000
June 1, 10,969,920,000
11,712,960,000
+475
+450
+425
+400
+375
+350
+325
+300
+275
+250
+225
+200
+175
+150
+125
+100
River Slope Sinking Pump Started.
5 Air-Lift pumps Started in No. 14 Shaft.
2 Air-Lift pumps started in May Shaft.
(River Slope pump stopped)
P&J Slope Sinking pump
2-Deep-well pumps, No. 4 Shaft Started.
1-Deep-well pump Schooley Shaft Started.
1-Deep-well Schooley Shaft Started.
1-Deep-well No. 7 Shaft Started.
2-Deep-well pumps, May Shaft Started.
1-Deep-well No. 7 Shaft Started.
5 Air-Lift pumps Red Ash Shaft Started.
4-Air-Lifts Started in No. 4 Shaft.
1-Deep-Well No. 14 Shaft Started.
2-Air-Lifts No. 14 Shaft Stopped.
P&J Slope pump Stopped.
3-Air-Lifts No. 14 Shaft Stopped, 1-Deep-well No. 14 Borehole Started.
2-Air-Lifts May Shaft Stopped.
1-Deep-well No. 4 Shaft Started.
9-Air-Lifts No. 4 Shaft Stopped.
1-Deep-Well, No. 14 Shaft Started.
1-May Shaft Deep-well pump Stopped.
1-Deep-Well, Red Ash Shaft Started.
1-Deep-well, Red Ash Shaft Started.
1-Deep-well, May Shaft, Restarted.
1-Deep-Well May Shaft Stopped & Removed.
1-Deep-Well, Red Ash Started.
1-Deep-Well, Red Ash Shaft Started.
1-Deep-Well, Hoyt Shaft Started.
1-Deep-Well Hoyt Shaft Started.
2-Deep-Well pumps Started.
2-Deep-Well pumps Started { 1 Clark Shaft, 1 Hoyt Shaft.
1-Deep-Well pump, May Shaft Removed.
2-Deep-well pumps stopped { 1-Hoyt Shaft, 1-No. 4 Shaft.
1-Deep-well pump stopped, Red Ash.
1-Deep-well pump stopped, Hoyt.
1-Deep-well pump stopped, No. 14 Shaft.
2-Deep-well pumps stopped, No. 14 Shaft.
1-Deep-well pump restarted, No. 4 Shaft.
5-Deep-well pumps stopped { 3-Red Ash, 2-Clark.
1-Deep-well pump restarted, No. 4 Shaft.
1-Deep-well pump stopped, No. 4 Shaft.
2-Deep-well pumps stopped, Schooley Shaft.
1-Deep-well pump started, Schooley.
3-Deep-well pumps stopped { 1-Red Ash, 1-No. 7, 1-No. 14.
1-Deep-well pump stopped, No. 7 Shaft.
2-day shutdown, all pumps
NONE
PROFILE PLATE B. 4 X 30.