

FLOW MEASUREMENTS BELOW

Location: Deer Creek Below  
Date: May 18, 1973

SECTION #1

<u>STATION</u>	<u>DEPTH (FT)</u>	<u>REVOLUTIONS</u>	<u>SECONDS</u>	<u>VELOCITY</u>	<u>FT<sup>3</sup>/SEC</u>
2½	0	0	0	----	----
3	.35	40	61.2	.719	.126
4	.45	60	57.8	1.089	.490
5	.53	50	50	1.055	.559
6	.68	70	52.5	1.393	.947
7	.70	70	48.7	1.473	1.031
8	.80	90	49	1.871	1.497
9	.63	90	51.2	1.801	1.135
10	.70	60	50.2	1.250	.875
11	.60	50	48.6	1.075	.645
12	.43	20	48	.486	.209
13	.24	5	58.6	.163	.039
14	0	0	0	----	----

GPM = 3,399

7.553

SECTION #2

<u>STATION</u>	<u>DEPTH (FT)</u>	<u>REVOLUTIONS</u>	<u>SECONDS</u>	<u>VELOCITY</u>	<u>FT<sup>3</sup>/SEC</u>
0	0	0	0	----	----
1	.72	20	60	.405	.292
2	1.00	30	50.5	.665	.665
3	1.05	20	49.1	.478	.502
4	.85	50	57.8	.921	.783
5	1.00	60	63.8	.994	.994
6	.95	50	57	.936	.889
7	1.05	40	49.6	.860	.903
8	1.05	40	57.8	.752	.790
9	.80	40	60	.730	.584
10	.50	40	51	.845	.422
11	.30	15	56.2	.341	.102
11.2	0	0	0	----	----

GPM = 3,117

6.926

LOCATION: Deer Creek Below  
 DATE: May 18, 1973

SECTION #3

<u>STATION</u>	<u>DEPTH (FT)</u>	<u>REVOLUTIONS</u>	<u>SECONDS</u>	<u>VELOCITY</u>	<u>FT<sup>3</sup>/SEC</u>
0	0	0	0	----	----
1	.72	20	50	.470	.338
2	1.05	30	50.2	.665	.698
3	1.05	30	63.3	.544	.571
4	.90	40	50.3	.860	.774
5	1.00	50	57.8	.921	.921
6	1.00	50	56.2	.951	.951
7	1.05	40	49.4	.876	.920
8	1.05	40	56.2	.776	.815
9	.85	40	54	.802	.682
10	.56	40	48	.892	.500
11	.30	15	59.5	.373	.112
11.2	0	0	0	----	----

GPM = 3,277

7.282

FLOW MEASUREMENTS

Avg GPM = 3,264

LOCATION: Deer Creek (Above)  
 DATE: May 17, 1973  
 CROSS SECTION: Number 1

<u>STATION</u>	<u>DEPTH (FT)</u>	<u>REVOLUTIONS</u>	<u>SECONDS</u>	<u>VELOCITY</u>	<u>FT<sup>3</sup>/SEC</u>
0	0	0	0	---	---
1.0	.5	80	56	1.473	.737
2.0	.5	80	54	1.525	.763
3.0	.45	80	56	1.461	.658
4.0	.52	80	60	1.380	.718
5.0	.4	40	56	.776	.310
5.5	0	0	0	---	---

Total: GPM = 1,434

3.186

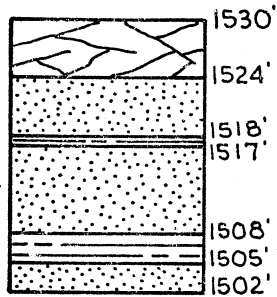
LOCATION: Deer Creek (Above)  
 DATE: May 17, 1973  
 CROSS SECTION: Number 2

<u>STATION</u>	<u>DEPTH (FT)</u>	<u>REVOLUTIONS</u>	<u>SECONDS</u>	<u>VELOCITY</u>	<u>FT<sup>3</sup>/SEC</u>
0	0	0	0	---	---
.5	.4	80	56.5	1.461	.292
1.0	.5	80	51	1.610	.805
2.0	.5	80	57	1.449	.725
3.0	.48	80	51	1.610	.773
4.0	.5	80	52	1.566	.783
5.0	.35	50	59	.921	.161
5.5	0	0	0	---	---

Total: GPM = 1,592

3.539

Avg GPM = 1513



CLAY

SOFT BROWN SAND ROCK

SHALE

HARD GRAY SAND ROCK

SHALE

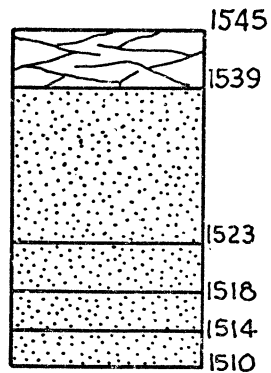
HARD GRAY SAND ROCK

DATE DRILLED : SEPT. 18, 1973

METHOD: AIR ROTARY

SCALE: 1"=20'

SL 193-1  
DEER CREEK  
DRILL HOLE NO. D-1



CLAY

HARD BROWN SAND ROCK

-21' WATER LEVEL 1-21-74

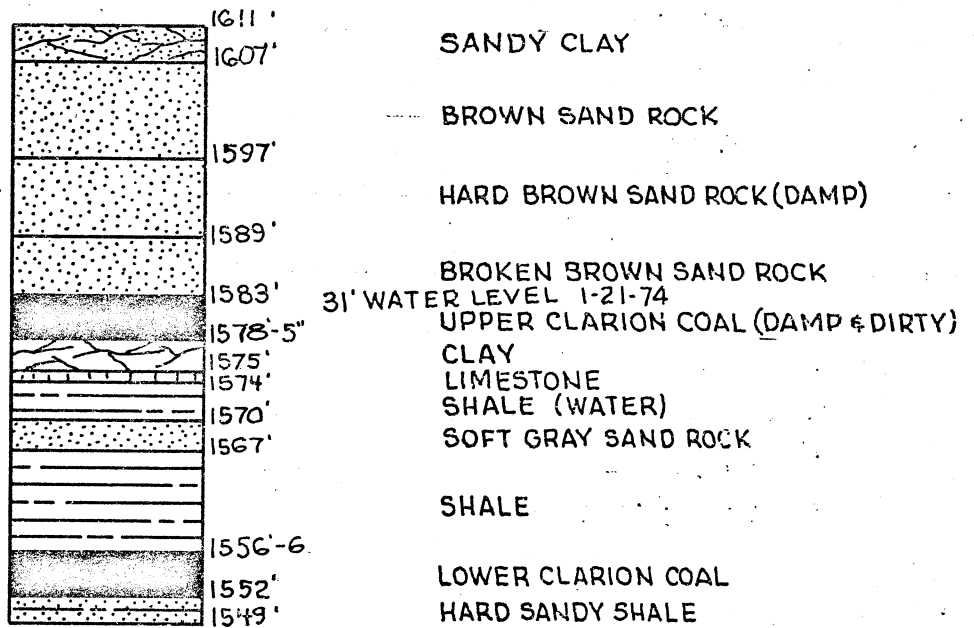
SOFT BROKEN BROWN SAND ROCK (DAMP)

HARD GRAY SAND ROCK

BROKEN BROWN SAND ROCK (WET)

DATE DRILLED: SEPT. 18, 1973  
 METHOD: AIR ROTARY  
 SCALE: 1" = 20'

SL 193-1  
 DEER CREEK  
 DRILL HOLE NO. D-2



DATE DRILLED: SEPT. 18, 1973  
 METHOD: AIR ROTARY  
 SCALE: 1" = 20'

SL 193-1  
 DEER CREEK  
 DRILL HOLE NO. D-3

GWIN, DOBSON & FOREMAN, INC.

Eighth Avenue and Twelfth Street

P.O. Box 1589

Altoona, Pa. 16603

Phone (814) 943-5214

	Date	Time
Sample received	11/5/73	
Sample Analyzed	11/8/73	

Case Name Deer Creek Quick Start		Project No. SL 193-1	
Region	County Clarion	Municipality	
Source	Receiving Stream Deer Creek	Tributary to Clarion River	
Collected	Sample No. Drill Hole #3	Chemist	
Date: 11/2 Time:	Collected by C.G. Walton	M.A.	

SEND RESULTS TO:

pH 6.9

Acidity 0 mg/l

Alkalinity 100 mg/l

Iron (total) 0.1 mg/l

Iron (ferrous) --- mg/l

Sulfates 41 mg/l

Other (specify) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- Planning & Dev. Research
- Ebensburg
- Reynoldsville
- Uniontown
- Pottsville
- Wilkes-Barre
- Other (specify)

J. Ward  
GDF

REMARKS:

REPORT ON HYDRAULIC PRESSURE TESTING

Boring No. 3  
 Sheet No. 1 of 1  
 Date February 2, 1974

Project Location Deer Creek Quick Start Project No. SL 193-1  
 Boring Location R. Obenrader Property Elev. Top of Boring 1,615'  
 Driller W.F. Brown No. of Meter \_\_\_\_\_

DATA ON FLOW TEST

ART I

Section of hole tested				Press. Gage Lbs./ Sq. In.	Time Started	Time Stopped	Time Minutes	Meter Readings			GAL. Water Per Min.
Depth		Elevation						At Start of Test gal.	At End of Test gal.	Total GAL. Water Used	
From	To	From	To								
30'	31'	1,585'	1,584'	20'			10	12,879	13,049	170	17.0
25'	20'	1,590'	1,585'	20'			10	13,049	13,244	195	19.5
19'	25'	1,596'	1,590'	15'			10	13,244	13,414	170	17.0

PART II HOLDING TEST - MAXIMUM PRESSURE 50 p.s.i.

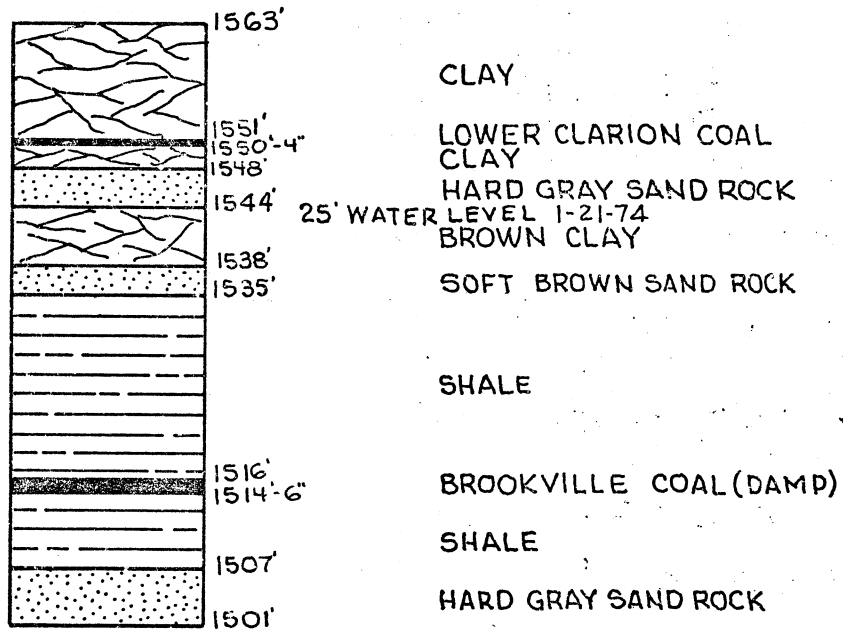
Data on Pressure				Time on Each 10 lb. Drop				
Section of hole tested				Gage pressure at test intervals from				
Depth		Elevation		50-40 lb.	40-30 lb.	30-20 lb.	20-10 lb.	10-0 lb.
From	To	From	To	(or higher pressures if necessary)				
30	31	1,585	1,584	20-0 psi				
				10 sec.				
25	30	1,590	1,585	20-0 psi				
				9 sec.				
19	25	1,596	1,590	20-0 psi				
				5 sec.				

DESCRIPTION OF OPERATIONS AND GENERAL INFORMATION:  
 Elev. Top Rock - 1,611'  
 Bottom Boring - 1,553'

C.G. Walton

REMARKS:

Inspector's Signature



DATE DRILLED: SEPT. 18, 1973  
 METHOD: AIR ROTARY  
 SCALE: 1"=20'

SL 193-1  
 DEER CREEK  
 DRILL HOLE NO. D-4



GWIN, DOBSON & FOREMAN, INC.

Eighth Avenue and Twelfth Street

P.O. Box 1589

Altoona, Pa. 16603

Phone (814) 943-5214

Date Time

Sample received 11/5/73

Sample Analyzed 11/8/73

Case Name  
Deer Creek Quick Start

Project No.  
SL 193-1

Region

County  
Clarion'

Municipality

Source

Receiving Stream  
Deer Creek

Tributary to  
Clarion River

Collected

Sample No.  
Drill Hole #4

Chemist

Date: Time:

Collected by C.G. Walton

M.A.

SEND RESULTS TO:

pH 5.5

Acidity 4 mg/l

Alkalinity 0 mg/l

Iron (total) 0.1 mg/l

Iron (ferrous) ---- mg/l

Sulfates 2 mg/l

Other (specify)

- Planning & Dev. Research
- Ebensburg
- Reynoldsville
- Uniontown
- Pottsville
- Wilkes-Barre
- Other (specify)

REMARKS:

J. Ward  
GDF

U. S. GEOLOGICAL SURVEY  
Water Resources Division

Well Number: CR -272  
Deer G.4 Fasenmyer  
Measured by: O'Hara & Kaus  
Date: 10-1-73  
Static w/l: 25.35  
Depth of Well: 56'

Depth of Intake: 50'  
Meter Reading(before): 63485.6  
Meter Reading(after): Meter clogged  
Time Pump on: 1130  
Time Pump off:

time (min)	w/l (ft)	d.d. (ft)	yield (gpm)	remarks	time (min)	w/l (ft)	d.d. (ft)	yield (gpm)	remarks
0'	5.67	0			45	30.08	24.41	1.38	Steady
15"	6.94	1.27		Sample Clear	47				for W/L & Yield.
30"	7.49	1.82							
45"	7.92	2.25							
1'	8.21	2.54							1.38 -gpm is total capacity
1'30"	8.83	3.16							pH=7.6
2'	9.30	3.63							
2'30"	9.92	4.25							
3 1/2	11.10	5.43							Colorimeter meter not working
4	11.55	5.88	2.10						No Fe determination possible.
5	12.65	6.98		Hot Cloudy					
7	14.47	8.80							
10	16.96	11.29							
12	18.61	12.94							
15	20.79	15.12							
17	22.14	16.47							
20	24.11	18.44							
25 1/2	27.26	21.59							
30 1/2	29.82	24.15	K x 10 <sup>6</sup> =60						
35	30.08	24.41	↓						
40	30.08	24.41	1/38						