

C & S EXCAVATING COMPANY

Phone 489-9482

BOX 49
DUNMORE, PA. 18512

Log # 71
Recd Log 6-16-76

Bore Hole No. 141-17 Drilled 6/15- 19 76

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

AT CORNER OF FROTHINGHAM ^{ON} LAGRANGE ST Location Pittston

Description: 8" INJECTION HOLE TO THE
PITTSBURGH VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
<u>WASH</u>			<u>9</u>		<u>9</u>		
<u>ROCK</u>			<u>4</u>		<u>13</u>		
<u>10" CASING PIPE</u>	<u>13</u>						
<u>ROCK</u>			<u>56</u>		<u>69</u>		
<u>OPEN</u>			<u>9</u>		<u>78</u>		
<u>BROKEN MATERIAL</u>			<u>7</u>		<u>85</u>		
<u>ROCK</u>			<u>2</u>		<u>87</u>		
<u>8" CASING PIPE</u>	<u>63</u>						

Remarks: _____

TR-4
Machine No.

Driller S. Magli

Bit No.

J. JAMIESON

12 1/4 - 9 7/8 - 7 7/8
Type and Size Bit

Department Representative

✓

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Log # 72

Bore Hole No. 142-P-M Drilled 6-16 19 76

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At 1/2 E. OF ALLEY ON FROTHINGHAM ST Location Pittston

Description: 8" INJECTION HOLE TO THE
PITTSBURGH AND MARCY VEINS

662

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			4		4		
ROCK			4		8		
10" CASING PIPE	8						
ROCK			45		53		
COAL			14		67		Pittston 59.5
ROCK			31		98		
COAL			5		103		Marcy 559
ROCK			2		105		

Remarks: SOLID

TR-4
Machine No.

Driller S. Maglin

Bit No.

J. JAMIESON

12 1/4 - 9 3/8 - 7 7/8
Type and Size Bit

Department Representative

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Log 74

Bore Hole No. 143 PM Drilled 6/21/ 19 76

DRILLER'S DAILY REPORT

Drilled by COS EXCAVATING CO

96' E. OF
At LABRANGE ON F. ROUGHINGHAM ST Location Pittston

Description: 8" INJECTION HOLE TO THE MARCY VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
<u>WASH</u>			<u>12</u>		<u>12</u>		
<u>SHALE</u>			<u>2</u>		<u>14</u>		
<u>ROCK</u>			<u>4</u>		<u>18</u>		
<u>10" CASING PIPE</u>	<u>18</u>						
<u>ROCK (BROKEN)?</u>			<u>41</u>		<u>59</u>		
<u>OPEN?</u>			<u>7</u>		<u>66</u>		<u>Pit + 597</u>
<u>ROCK (BROKEN)?</u>			<u>40</u>		<u>106</u>		
<u>SOFT MATERIAL</u>			<u>5</u>		<u>111</u>		<u>Marcy + 552</u>
<u>ROCK</u>			<u>2</u>		<u>113</u>		

Remarks: 8" CASING PIPE 59

TR-4
Machine No.

Driller S. Maglio

Bit No.
12 1/4 - 9 7/8 - 7 7/8

J. JAMIESON

Type and Size Bit

Department Representative
18' - 10" D
18' - 10" C
95' - 8" D
59' - 8" C

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Log 75

Bore Hole No. 144-CP Drilled 6/23 19 76

DRILLER'S DAILY REPORT

Drilled by C&S EXCAVATING CO

At 80' S. OF RAILROAD ON JOHNSON ST Location Pittsto

Description: 8" Injection hole to the
Pittston Vein

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
Wash			7		7		
Rock			55		62		
Open			8		70		Checker. 512
Rock			55		125		
BKN Rock			31		156		42.6
Rock			2		158		
10" casing pipe	26						
8" casing pipe	62						Did not hit Pittston (See BH 145C)

Remarks: _____

TR-4

Machine No.

Bit No.

1 1/2 - 9 3/8 - 7 1/8

Type and Size Bit

Driller S. Maglieri

J. Jamieson

Department Representative

10" D 26'
10" C 26'
8" D 138'
8" C 62'



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Log 76

Bore Hole No. 145 C-P Drilled 6/25 19 76

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At 30'E. OF JOHNSON ON COLUMBUS AVE Location Pittston

Description: 8" INJECTION HOLE TO THE
PITTSBURGH VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			7		7		
ROCK			4		11		
10" CASING PIPE	11						
ROCK			47		58		
BKN ROCK			4		62		
OPEN			5		67		
ROCK			86		153		
COAL			14		167		
ROCK			2		169		

Remarks: 8" CASING PIPE 62

TR-4
Machine No.

Driller S Magle

Bit No.

J. JAMIESON
Department Representative

12 1/4 - 9 3/8 - 7 3/8
Type and Size Bit

10" D 11'
10" C 11'
8" D 158'
8" C 62'

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Log 77

Bore Hole No. 146EP Drilled 6/28 19 76

DRILLER'S DAILY REPORT

Drilled by C.S. Excavating Co

At 26' S OF COLUMBUS ON ELIZABETH ST Location Pittston

Description: 8" Injection hole to the Pittston Vein

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			4		4		
Rock			4		8		
10" casing pipe	8						
Rock			16		24		
OPEN			7		31		
Rock			90		121		
BKN Rock			8		129		
OPEN			2		131		
BKN MATERIAL			1		132		
Rock			2		134		

Remarks: 8" casing pipe 129

TR-4 Machine No. Driller S. Magli

Bit No. J. JAMIESON Department Representative

12 1/4 - 9 3/8 Type and Size Bit

10"D 8'
10"C 8'
8"D 131'
8"C 129'

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Log 78

Bore Hole No. 147-P Drilled 6/30 19 76

DRILLER'S DAILY REPORT

Drilled by C&S EXCAVATING CO

At On High St 60' South of Columbus Location Pittston

Description: 8" Injection hole to THE
PITTSBURY VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
<u>Wash</u>			<u>42</u>		<u>42</u>		
<u>Rock</u>			<u>4</u>		<u>46</u>		
<u>10" casing pipe</u>	<u>46</u>						
<u>Rock</u>			<u>52</u>		<u>98</u>		
<u>OPEN</u>			<u>2</u>		<u>100</u>		
<u>BKN MATERIAL</u>			<u>14</u>		<u>114</u>		
<u>Rock</u>			<u>2</u>		<u>116</u>		
<u>8" casing pipe</u>	<u>88</u>						

Remarks: _____

TB-4
Machine No.

Driller S. Magli

Bit No.
12 1/4 - 9 7/8 - 9 7/8
Type and Size Bit

STEVE PALUCK
Department Representative

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Log 79

Bore Hole No. 148-P ¹⁴⁸ Drilled 7/6 19 76

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At 160' S. OF COLUMBUS ON ELIZABETH ST Location Pittston

Description: 8" INJECTION HOLE TO THE PITTSBURGH VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			23		23		
ROCK			4		27		
10" CASING PIPE	27						
ROCK			47		74		
COAL			1		95		
ROCK			25		120		
BKN. MATERIAL			20		120		
ROCK			2		122		

Remarks: LOST AIR AND WATER AT 105'

TA-4
Machine No.

Driller S. Maglin

Bit No.

S. PALUCK

10 1/2 - 9 7/8 - 7 7/8
Type and Size Bit

Department Representative
 27 ft. - 10" drilling
 27" - 10" casing
 95" - 8" drilling
 90" - 8" casing

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Log 81

Bore Hole No. 149-P Drilled 7/8 19 26

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At 60' W. OF HIGH OAK ST Location Pittston

Description: 8" INJECTION HOLE TO THE PITTSTON VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			19		19		
ROCK			4		23		
11" CASING PIPE	23						
ROCK			104		127		
COAL			10		137		
ROCK			2		139		

Remarks: _____

TA-4
Machine No.

Driller S. Maglio

Bit No.

A. TURLEY

10 1/4 - 9 3/4 - 7 3/4
Type and Size Bit

Department Representative

10" D 23'
10" C 23'
8" D 116'
NO 8" CASING INSTALLED ✓

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Log 82

Bore Hole No. 150-P Drilled 7/12 19 76

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At HW. OF TUMPKINS IN OAK ST Location Pittston

Description: 8" Injection hole to THE PITTSBURGH VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Dip of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			35		35		
Rock			4		39		
10" casing pipe	39						
Rock			3		42		
coal			4		46		
Rock			94		140		
coal			8		148		Pittston 45°
Rock			2		150		

Remarks: _____

TR-4
Machine No.

Driller S. Magli

Bit No.

A. TURLEY

12 1/4 - 9 3/4 - 7 3/4
Type and Size Bit

Department Representative

10" D 39'
10" C 39'
8" D III

NO 8" CASING INSTALLED HOLE SOLID ✓

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Log 83

Bore Hole No. 151-P Drilled 4/13 19 76

DRILLER'S DAILY REPORT

Drilled by C&S EXCAVATING CO

At 48'E. OF TOMPKINS ON OAK ST Location Pittston

Description: 8" INJECTION HOLE TO THE PITTSBURGH VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
<u>WASH</u>			<u>38</u>		<u>38</u>		
<u>COAL</u>			<u>5</u>		<u>43</u>		
<u>ROCK</u>			<u>4</u>		<u>47</u>		
<u>10" CASING PIPE</u>	<u>47</u>						
<u>ROCK</u>			<u>87</u>		<u>134</u>		
<u>COAL</u>			<u>8</u>		<u>142</u>		
<u>ROCK</u>			<u>2</u>		<u>144</u>		

Remarks: _____

TR-4 Machine No. Driller S Magli

Bit No. J. FISHER Department Representative

12 1/4 - 9 7/8 - 7 3/8
Type and Size Bit

10" D 47'
10" C 47'
8" D 97'
NO 8" CASING ✓

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Log 84
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Bore Hole No. 152-P Drilled 7/15/1 19

Drilled by CAS EXCAVATING CO Pittston

At 57'S. OF OAKIN TOMPKINS SITE Location

Description: 8" INJECTION HOLE TO THE
PITTSBURGH VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			30		30		
ROCK			4		34		
8" CASING PIPE	34						
ROCK			15		49		
COAL			4		53		
ROCK			88		141		
COAL			10		151		
ROCK			2		153		

Remarks:

TR-4
Machine No.

Driller S. Maglio

Bit No.

J. FISHER

1 1/4 - 9 1/2 - 5 1/2
Type and Size Bit

Department Representative

10" D 34'
10" C 34'
8" D 119'
NO 8" CASING HOLE SOLID IN BOTH VEINS

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Bore Hole No. 153-P Drilled 9-22 19 26

DRILLER'S DAILY REPORT

Drilled by COS EXCAVATING CO

At Johnson St ^{145' South of FROTHINGHAM ST} Location Pittston

Description: 8" INJECTION HOLE TO THE
PITTSBURGH VEIN

624

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			8		8		
ROCK			4		12		
10" CASING PIPE	12						
ROCK			41		53		
COAL			3		56		
ROCK			104		160		
BKN GROUND (SMALL OPENINGS)			9		169		Pittston 455
ROCK			2		171		
8" CASING PIPE	150						

Remarks: _____

TR-4
Machine No.

Driller S. Dreyer

Bit No.
12 1/4 - 9 3/8 - 7 3/8

Department Representative 12' of 10" DRILLING
12' of 10" CASING
159' of 8" DRILLING
150' of 8" CASING

Type and Size Bit

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Bore Hole No. 154-P Drilled 9/28 19 76

DRILLER'S DAILY REPORT

Drilled by COS EXCAVATING CO

At 190'S. OF OAK ON PRICE ST Location Pittston

Description: 8" INJECTION HOLE TO THE
PITTSBURGH VEIN
East of BH331

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			38		38		
ROCK			4		42		
10" CASING PIPE	42						
ROCK			10		52		
COAL			1		53		
ROCK			42		95		
BKN ROCK			6		101		
OPEN			3		104		
SOFT MATERIAL			1		105		
ROCK			2		107		

Remarks: 8" CASING PIPE 97 MEASURED BY TAPE 104'

TR-4
Machine No.

Driller S. Magli

Bit No.

J. KISH

1 3/4 - 9 3/8 - 7 3/8
Type and Size Bit

Department Representative

10" D - 43'
10" C - 43'
8" D - 59'
8" C - 97'

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Bore Hole No. 155-P Drilled 10/1 ~~10/20~~ 19 76

DRILLER'S DAILY REPORT

Drilled by COS EXCAVATING CO

At 93' E. OF TOMPKINS ^{OR} FROUGHTINGHAM ST Location Pittston

Description: 8" Injection hole to THE PITTSBURGH VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			42		42		
Rock			4		46		
10" PIPE	46						
Rock			24		70		
COAL			2		72		
Rock			38		110		
COAL			10		120		
Rock			2		122	1	

Remarks: HOLE SOLID

TR-4
Machine No.

Driller P. Douglas

Bit No.

J. KISH
Department Representative

1 1/4 - 9 3/8 - 9 3/8
Type and Size Bit

10" D - 46'
10" C - 46'
8" D - 76'
NO 8" CASING INSTALLED

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Bore Hole No. 156-P Drilled 10-5 19 76

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At 53' E. OF TOMPKINS ON FROUGHTING HAM ST Location Pittston

Description: 8" INJECTION HOLE TO THE PITTSBURGH VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
Wash			36		36		
Rock			4		40		
10" casing pipe	40						
Rock			38		78		
Coal			1		79		
Rock			39		118		
Coal			10		128		
OPEN			2		130		
Rock			2		132		

Remarks: 8" casing pipe 128

MEASURED 132'

TR-4
Machine No.

Driller S. Magli

Bit No.

J. KISH

124-98-77
Type and Size Bit

Department Representative

- 10" D - 40'
- 10" C - 40'
- 8" D - 88'
- 8" C - 128'

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Bore Hole No. 157-CPM Drilled 10-14 19 76

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At 600' N. OF WEST B/W TIMPKINS & ELIZABETH Location Pittston

Description: 8" Injection hole to THE MARCY VEIN

+621 Approx

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			12		12		
ROCK			4		16		
10" CASING PIPE	16						
ROCK			37		53		
OPEN			2		55		Checker
BKN MATERIAL			2		57		+564
ROCK			98		155		
COAL			10		165		+465 Pittston
ROCK			51		216		
OPEN			5		221		+400 Marcy
ROCK			2		223		

8" CASING PIPE 148
Remarks:

TR-4
Machine No.

Driller S. Maglio

Bit No.
12 1/4 - 9 3/8 - 7 3/8

J. Jamieson
Department Representative

Type and Size Bit

16' of 10" DR.
16' of 10" CAS.
200' of 8" DR.
148' of 8" CAS.



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Bore Hole No. 157-PM Drilled 3/3 19 77

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At CANTINUATION of B.H. 157 P.M DRILLED 10/14/76 Location Pittston

Description: 8" Injection hole to Test
Pittston and Marcy Veins

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
Wash			12		12		
Rock			4		16		
10" casing pipe	16						
Rock			37		53		
OPEN			2		55		
BKN. MATERIAL			2		57		
Rock			98		155		
COAL			10		165		
Rock			51		216		
OPEN			5		221		
Rock			2		223		

Remarks: 8" casing pipe 200 ADDED 52' of 8" casing pipe to previous 148' to bring the total of 8" casing pipe installed to 200 ft

Machine No. TK-4

Driller S. Magli

Bit No. _____

Department Representative B. Rector

Type and Size Bit 124-9 7/8-7 7/8

52' - 8" casing

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Bore Hole No. 158 PM Drilled 10-18 19 76

DRILLER'S DAILY REPORT

Drilled by C & S EXCAVATING CO

At ^{38' E. of} Spring St. on → OAK ST Location Pittston

Description: 8" Injection hole to the MARCY VEIN

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			18		18		
Rock			4		22		
10" casing pipe	22						
Rock			67		89		
Coal			10		99		533
Rock			43		142		
Coal			5		147		485?
Rock			2		149		

Remarks: HOLE SOLID

I A-4
Machine No.

Driller S. Maglin

Bit No.

Jas. Jameson
Department Representative

10 1/4 - 9 7/8 - 7 7/8
Type and Size Bit

10" DRILLING 22'
10" CASING 22'
8" DRILLING 127'
8" CASING NONE ✓

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Bore Hole No. 159-PM Drilled 10-20 19 76

DRILLER'S DAILY REPORT

Drilled by C&S Excavating Co

120' East of
At Spring Court on OAK ST Location Pittston

Description: 8" Injection hole to THE
PITTSBURGH AND MARCY VEINS

640?

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
Wash			18		18		
Rock			4		22		
8" casing pipe	22						
Rock			18		40		
Coal			1		41		599? CHECKER
Rock			43		84		
Coal			10		94		546? PITTSBURGH
Rock			46		140		
OPEN			4		144		
BRN MATERIAL			1		145		495? MARC
Rock			2		147		

Remarks: 8" casing pipe 95'

TR-4
Machine No.

Driller S. Magli

Bit No.

Joe Jamieson
Department Representative

1 3/4 - 9 3/8 - 7 7/8
Type and Size Bit

10" DRILLING 22'
10" CASING 22'
8" DRILLING 118'
8" CASING 95'

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Bore Hole No. 160-P-M Drilled 10-25 19 76

DRILLER'S DAILY REPORT

Drilled by C&S EXCAVATING CO

At 150' south of Oak Street in Spring St Location Pittston

Description: 8" Injection hole to the Pittston and Marcy veins

STRATA	Pipe Driven		Drilled		TOTALS		Depth of Vein
	Ft.	In.	Ft.	In.	Ft.	In.	
WASH			22		22		
ROCK			4		26		
CASING PIPE	26						
ROCK			24		50		
COAL			1		51		+ 579'
ROCK			44		95		
COAL			10		105		Pittston + 525'
ROCK			37		142		
COAL			5		147		+ 483'
ROCK			2		149		

Remarks: _____

IR-4
Machine No.

Driller S. Magbi

Bit No.

Jas. Jamieson
Department Representative

1 1/2 - 9 3/8 - 7 3/4
Type and Size Bit

10 DRILLING - 26'
10 CASING - 26'
8 DRILLING - 123'
8 CASING - NONE

630