

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF ABANDONED MINE RECLAMATION  
 WILKES-BARRE DISTRICT

DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CHURCH ST IN FRONT ST MARY ASSUMPTION SCHOOL  
 Drill Date(s): 6/15/05 Surface Elevation: 645  
 Borehole No.: 1

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
WASH	8"	18			
ROCK		4	22	22	
ROCK		45	67		
COAL		9	76		} CHECHER
SHALE		10	86		
ROCK		39	125		
T. BRN		14	139		PITSTON
ROCK		46	185		
SOFT FLWH BRN MAT		9	194		MARCY
ROCK		2	196		
					8" DRILLING 22'
					8" CASING 22'
					5 7/8" DRILLING 174'
					6" CASING 0
					SOLID HOLE - sealed

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DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: IN ALLEY BETWEEN HOUSE NOS. 652 & 67 CARROLL ST  
 Drill Date(s): 6-22-05 8-5-05 Surface Elevation: 676  
 Borehole No.: 2

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
WASH	8"	38			
ROCK		4	42	42	
ROCK		33	75		
COAL		2	77		} CHEWER
ROCK		1	78		
COAL		9	87		
ROCK		56	143		
T. BROKEN		9	152		PITTSN - WATER
ROCK		47	199		
FLSH		11	210		MARCY
ROCK		2	212		
					8" DRILLING 42'
					8" CASING 42'
					5 1/2" DRILLING 170'
					6" CASING 0
					SOLID HOLE - Sealed

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 WILKES-BARRE DISTRICT

DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: SAND ST IN FRONT OF GARAGE NEXT TO HOUSE #42  
 Drill Date(s): 6/21/05 - 7/19/05 Surface Elevation: 687  
 Borehole No.: 3

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
WASH	8"	74			
ROCK		4	78	78	
ROCK		24	102		
COAL		6	108		CHALKER
ROCK		23	136		
COAL		1	137		?
ROCK		33	170		
P. SANDSTONE		8	178		PITTSBURGH LOST ZACHMAN
ROCK		35	213		
SOFT MATH. FLUSH-LIVER		7	220		MARCY
ROCK		2	222		
					8" DRILLING 78'
					8" CASING 78'
					5 7/8" DRILLING 144'
					Solid Hole - Sealed

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DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: RADCLIFF ST BETWEEN # 123 & 125 CARROLL ST  
 Drill Date(s): 6/9/05 8-5-05 Surface Elevation: 660  
 Borehole No.: 4

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	48			
ROCK		4	52	52	
ROCK/SHALE		4	56		} CHECKER ?
ROCK		9	65		
SOFT ROCK		4	69		
SHALE		3	72		
COAL		10	82		
ROCK		28	110		WATER @ 95'
COAL		7	117		} PITTSBURGH ?
ROCK		24	141		
COAL		15	156		
T. BROKEN		2	158		
ROCK		24	182		
FLUWY		10	192		MANCY
ROCK		2	194		
					8" DRILLING 52'
					8" DRILLING 52'
					5 7/8" DRILLING 142
					SOLID HOLE - Sealed

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WILKES-BARRE DISTRICT

DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: HUNTER ST Along Side House # 155 CARROLL ST  
 Drill Date(s): 6-17-05 7-29-05 Surface Elevation: 658  
 Borehole No.: 5

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
WASH	8"	38			
ROCK		4	42	42	
ROCK		7	49		
COAL		11	60		LEADER
ROCK		74	134		
T. BROKEN		5	139		PITSTON
SHALE		3	142		
ROCK		53	175		
FLINT		8	183		MARCY
ROCK		2	185		
					8" DRILLING - 42
					8" CASING - 42
					5 7/8" DRILLING 143
					Solid Hole - Sealed

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DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CARROLL ST IN FRONT HOUSE # 56/58  
 Drill Date(s): 6/20/05 - 8/2/05 Surface Elevation: 650  
 Borehole No.: 6

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	16			
ROCK		4	20	20	
ROCK		42	62		
COAL		12	74		CHECKER
ROCK		51	125		
T. BROKEN		7	132		PITSTON - WATER
ROCK		50	182		
FLUSH		9	191		MARCY
ROCK		2	193		
					8" DRILLING 20'
					8" CASING 20'
					5 1/2" DRILLING 173'
					6" CASING 0
					SOLID HOLE - Sealed

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DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CARROLL ST IN FRONT House # 104  
 Drill Date(s): 6-17-05 8-3-05 Surface Elevation: 655  
 Borehole No.: 7

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	38			
ROCK		4	42	42	
ROCK		29	71		
COAL		12	83		CHECKER
ROCK		64	147		
T. BROKEN		5	152		PITTSBURGH
ROCK		37	189		
FLUSH		8	197		MANCINI
ROCK		2	199		
					8" DRILLING 42'
					8" CASING 42'
					5 1/2" DRILLING 157'
					6" CASING 0
					SOLID HOLE - Sealed

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DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CARROLL ST IN FRONT OF HOYLE # 142  
 Drill Date(s): 6-14-05 7-27-05 Surface Elevation: 653  
 Borehole No.: 8

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	42			
ROCK		4	46	46	
ROCK		8	54		
COAL		10	64		CHECKER
ROCK		73	137		
COAL		9	146		PITSTON - WATER
ROCK		32	178		
FLUSH		9	187		MARCY
ROCK		2	189		
					SOLID HOLE - Sealed
					46' 8" DRILLING
					46' 8" CASING
					143' 5 7/8" DRILLING



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DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: IN FRONT HOUSE # 59  
 Drill Date(s): 2005/8-15-05 Surface Elevation: ?  
 Borehole No.: ?

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	8			
ROCK		4	12	12	
ROCK		21	33		
COAL		12	45		CHECKER
ROCK		58	103		
COAL		7	110		PITTSBURGH
ROCK		45	155		
SOFT MATERIAL		8	163		MARCO
ROCK		2	165		
					8" DRILLING 12'
					8" CASING 12'
					5 7/8" DRILLING 153'
					6" CASING 3
					SOLID HOLE - Sealed

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DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: IN FRONT OF HOUSE # 110 MILL ST  
 Drill Date(s): 7-21-05 Surface Elevation: 641  
 Borehole No.: 10

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	19			
Boulders		2	21		
VOID		3	24		SEWER & CHECKER - ONLY DETECTED
L. BROKEN		12	36	21	WATER FLOWING IN VOID
					8" DRILL 36'
					8" CASE 21'
					DUKE TO LACK OF ROCK ABOVE VOID HUNG 8" CASING @ 21'
					NOTE: 27" FROM SEWER MARKING TO VOID
					NO FURTHER DRILLING OF BOREHOLE.
					* SEALED.
					* VIDEO FOOTAGE OF BOREHOLE 7/28/05

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 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: MILL ST IN FRONT OF HOUSE # 136/138  
 Drill Date(s): 7-20-05 7-22-05 Surface Elevation: 641  
 Borehole No.: 11

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	22			
ROCK		4	26'		
ROCK		5	31		
COAL & SHALE		5	36		} CHEWER - STRONG SEWER ODOR
SOFT COAL		5	41		
SHALE		2	43		
ROCK		27	70		
SHALE		2	72		?
ROCK		22	94		
T. BROKEN		14	108		. PITSTON - sewer odor
ROCK		54	162		
T. BROKEN		2	164		} MANDY
FLUSH		5	169		
ROCK		2	171		
					8" DRILLING 26'
					8" CASING 26'
					5 7/8" DRILLING 145'
					Solid Hole - Sealed

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DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CENTER ST/NORTH OF SEARLE EAST OF LOTS 131-133/WEST SIDE OF ST.  
 Drill Date(s): 8-12-2005 8-15-05 8-16-05 Surface Elevation: ?  
 Borehole No.: 12

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	14			
ROCK		4	18	18	
ROCK		4	22		
COAL		11	33		CHECKER
ROCK		25	58		
COAL		2	60		
SHALE		2	62		
ROCK		18	80		PITSTON
T.BRKN		7	87		
ROCK		9	96		
FRACTURED ROCK		3	99		?
ROCK		48	147		
S. MAT'L FLWY		10	157		MANCY
ROCK		2	159		
					8" DRILL 18
					8" CASING 18
					5 7/8" DRILLING 141
					6" CASING 0
					SOLID HOLE - Sealed

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WILKES-BARRE DISTRICT

DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: ON RADCLIFF ST Across from Pole # 54007  
 Drill Date(s): 8-9-05 8-10-05 Surface Elevation: 641  
 Borehole No.: 13

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	16			
ROCK		4	20	20'	
ROCK		20	40		
COAL		10	50		CHECKER
ROCK		65	115		
SHALE		2	117		PITTSBURGH
T.BROWN		7	124		
ROCK		38	162		
S. MATT. FLU.?		8	170		MARCY
ROCK		2	172		
					8" DRILLING 20'
					8" CASING 20'
					5 7/8" DRILLING 152'
					6" CASING 0
					Solid Hole - Sealed
					* Note: BH 13 was originally located on Mill St. Contractor drilled 5' and punctured unmarked storm pipe. Contacted Pittston Streets Department + contractor repaired as recommended with concrete patch. Moved borehole to Radcliff St

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**BUREAU OF ABANDONED MINE RECLAMATION**  
**WILKES-BARRE DISTRICT**

**DRILL REPORT FORM - ROTARY**

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: RADECLIFF ST - Across From PUD Pole # 54007  
 Drill Date(s): 6/13/05 - 6/23/05 - 6/24/05 Surface Elevation: 641  
 Borehole No.: 14

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	18			
ROCK		4	22	22	
ROCK	6"	17	39	-	
COAL	"	10	49	-	
ROCK	"	65	114	-	
BROKEN	"	13	127		*Lost Return
ROCK	"	32	159		
COAL	"	8	167		
ROCK	"	2	169		
					8" Drilling = 22'
					8" Casing = 20'
					5 1/2" Drilling = 147'
					Solid Hole - Sealed

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 WILKES-BARRE DISTRICT

DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: MILL ST IN FRONT OF HOUSE # 181  
 Drill Date(s): 6-14-05 7-13-05 Surface Elevation: 642  
 Borehole No.: 15

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	14			
ROCK		4	18	18	
ROCK		19	37		
COAL		5	42		
VOID		2	44		CHECKER }
TIGHT BROKEN		2	46		
ROCK		69	115		
TIGHT BROKEN		7	122		PITSTON
ROCK		35	157		
FLUSH		9	166		MARCY
ROCK		2	168		
					8" DRILLING 18'
					8" CASING 18'
					6" REAMING <del>14'</del> 14'
					5 1/8" DRILLING 150'
					6" CASING 32' - 7-14-05
					MONITOR 44'

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 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: HUNTER ST - Across From P P & L Pole #54054  
 Drill Date(s): 6-13-05 - 6-27-05 Surface Elevation: 654  
 Borehole No.: 16

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	38			
ROCK		4	42	42	
ROCK	6"	32	74		
SHALE		1	75		WATER - CIRCULAR } ?
ROCK		5	80		
SHALE		2	82		
ROCK		27	109		
T. BROKEN		8	117		PITSTON
ROCK		35	152		
COAL		9	161		MARCY
BOT. ROCK		2	163	-	
	6"	131'		0	
					8" Drilling = 42'
					8" casing = 42'
					5 7/8" Drilling = 131'
					Solid Hole - Sealed



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DRILL REPORT FORM - ROTARY

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 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CHURCH ST IN FRONT HOUSE # 108  
 Drill Date(s): 6-16-05 & 7-7-05 Surface Elevation: 636  
 Borehole No.: 17

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	5			
ROCK		4	9	9	
ROCK		14	23		
SHALE & COAL		7	27		
VOID		5	32		CHECKER - LAST AIR - STORM SEWERS BEGAN VENTING
FLUSH		2	34		
ROCK		64	98		
SHALE & COAL		2	100		
VOID		6	106		PITSTON - STORM SEWER STOPPED VENTING
SHALE		3	109		
ROCK		45	154		
FLUSH		6	160		MARCY
T. BRICK		6	166		
ROCK		2	168		
					8" DRILLING 9'
					8" CASING 9'
					5 7/8" DRILLING 159
					6" REAMING 168
					6" CASING 17'
					MONITOR:

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 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CENTER ST ALONG SIDE HOUSE # 56 CHURCH  
 Drill Date(s): 6-28-05 6-30-05 Surface Elevation: 636  
 Borehole No.: 1B

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	8			
COAL		10			CHECKER ?
ROCK		4	22	22	
ROCK		106	88		
VOID		5	93		PITSTON }
FLUSH		3	96		
ROCK		43	139		
T. BROKEN		7	146		MARCY
ROCK		2	148		
					126' 5 1/2" DRILLING
					56' REAMING FOR 6" CASING
					78' 6" CASING
					22' 8" DRILLING / CASING
					MONITOR: 92'

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Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CENTER ST. IN FRONT OF HOUSE # 105  
 Drill Date(s): 6-28-05 6/29/05 Surface Elevation: 630  
 Borehole No.: 19

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	17			
ROCK		4	21	21	
ROCK		9	30		
COAL & SHALE		2	32		CHECKER
ROCK		51	83		
FRACTURED ROCK		7	90		LOST & RETURN
ROCK		2	92		PITSTON
COAL		4	96		
ROCK		46	142		
TIGHT BROKEN ROCK		6	148		MARCY
ROCK		2	150		
					129' 6" DRILLING
					8" DRILLING
					8" CASING
					Solid Hole - Sealed

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DRILL REPORT FORM - ROTARY

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 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: CENTER ST IN FRONT OF HOUSE # 147  
 Drill Date(s): 6-15-05 - 7-12-05 Surface Elevation: 650  
 Borehole No.: 20

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
WASH	8"	16			
ROCK		7	20	20	
ROCK		8	28		
VOID		5	33		CHECKER }
LOOSE BROKEN		6	39		
ROCK		56	95		
LOOSE BROKEN		6	101		PITTSBURGH }
ROCK		2	103		
TIGHT BROKEN		2	105		
ROCK		50	155		
FLUSH		8	163		MARCA
ROCK		2	165		
					8" DRILLING - 20'
					8" CASING - 20'
					10" REAMING - 0
					5 1/8" DRILLING - 145
					* 6" CASING - 0
					* NOTE - NO 6" CASING USED DUE
					TO THEIR BEING ONLY 8' DEPTH BETWEEN
					8" CASING & VOID AS PER JP

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF ABANDONED MINE RECLAMATION  
 WILKES-BARRE DISTRICT

DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: Center St W Front House # 165  
 Drill Date(s): 6-15-05 7-11-05 Surface Elevation: 656  
 Borehole No.: 21

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	17			
ROCK		4	21	21	
ROCK		12	33		
VOID		6	39		CHECKERLY }
SOFT SHALE		2	41		
ROCK		59	100		
BROWN SHALE COAL		12	112		PITTSION
ROCK		35	147		
FLUSH		7	154		MARCY
ROCK		2	156		
					21' 8" DRILLING
					21' 8" CASING
					2' 6" REAMING
					135' 5 7/8" DRILLING
					23' 6" CASING
					MONITOR : 41'

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF ABANDONED MINE RECLAMATION  
 WILKES-BARRE DISTRICT

DRILL REPORT FORM - ROTARY

Contract No.: SP 3525 40 2002 Contractor: Minichi, Inc.  
 Title: Rotary Exploratory Drilling Investigation  
 Project Location: Work Site #2, City of Pittston, Lackawanna County, PA  
 Borehole Location: MILL ST IN FRONT HOUSE # 140  
 Drill Date(s): 7-22-05 7-25-05 Surface Elevation: 641  
 Borehole No.: 23

STRATA	Pipe Dia. (in)	Drilled Depth (ft)	Reamed Depth (ft)	Cased Depth (ft)	Remarks
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WASH	8"	17			
ROCK		4	21		
ROCK		9	30		
COAL		7	37		
OPEN		2	39		CHECKER - OVERPOWERED ODDER SMALL VENTING FROM RH 11
L. BROKEN		1	40		
OPEN		2	42		
ROCK		57	99		
OPEN		3	102		PITLTON
ROCK		5	107		
T. BROKEN		3	110		
ROCK		49	159		
FLUSH		5	164		MARCY
ROCK		2	166		
					21' 8" DRILLING
					21' 8" CASING
					6' 6" REAMING
					27' 6" CASING
					145' 5 7/8" DRILLING
					MONITOR 42'