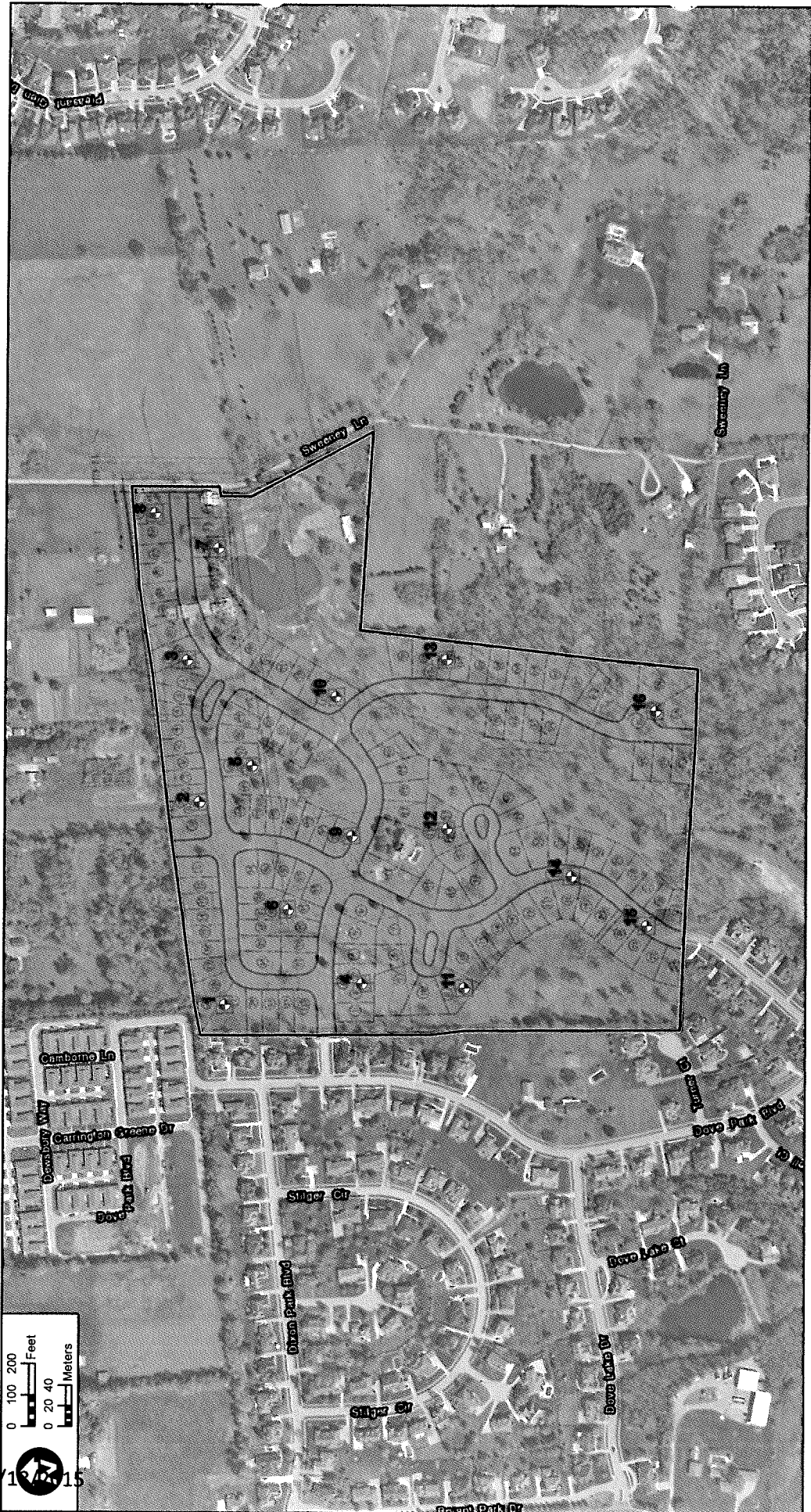
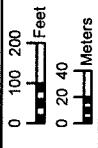


5/18/2015



<p>amec foster wheeler Engineering & Infrastructure, Inc. 1100 Bluegrass Pkwy, Suite 690 Louisville, KY 40289 Phone: (502) 287-6900 Fax: (502) 287-6900</p>	<p>TITLE:</p> <p>TEST PIT LOCATION MAP</p>	<p>CLIENT:</p>	<table border="1"> <tr> <td>DRAWN BY:</td> <td>amw/om</td> </tr> <tr> <td>CHECKED BY:</td> <td>AS</td> </tr> <tr> <td>NO.:</td> <td>1803</td> </tr> <tr> <td>DATE:</td> <td>5/18/2015</td> </tr> <tr> <td>SCALE:</td> <td>1" = 100'</td> </tr> <tr> <td>DATE:</td> <td>5/18/2015</td> </tr> </table>	DRAWN BY:	amw/om	CHECKED BY:	AS	NO.:	1803	DATE:	5/18/2015	SCALE:	1" = 100'	DATE:	5/18/2015	<p>PROJECT:</p> <p>PULTE GROUP MICHAEL'S CROSSING DEVELOPMENT GEOTECHNICAL EXPLORATION 7382-15-3152</p> <p>Jefferson County, KY.</p>	<p>LEGEND:</p> <p>◆ Test Pit</p> <p>□ Site Area</p>	<p>FIGURE 3</p>
DRAWN BY:	amw/om																	
CHECKED BY:	AS																	
NO.:	1803																	
DATE:	5/18/2015																	
SCALE:	1" = 100'																	
DATE:	5/18/2015																	

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 1
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 8 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
2	3 - 5 - 9	(7)	1.0	Stiff, reddish brown Lean CLAY (CL), trace silt, trace sand, moist	Q = 1.5 tsf
			2.0		
4	3 - 5 - 7	(6)	3.0		Q = 1.0 tsf
			4.0		
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		
				Test Pit terminated at 10.0 feet on weathered Dolomite	Test Pit dry time of excavation

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 2
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 8 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
2		5 - 6 - 8 (7)	1.0	Stiff, reddish brown Lean CLAY (CL), trace silt, trace sand, moist	Q = 2.0 tsf
			2.0		
			3.0		
4		6 - 6 - 8 (7)	4.0	Test Pit terminated at 6.5 feet on weathered Dolomite	Q = 2.5 tsf
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 3
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 6 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
2		8 - 9 - 11 (10)	1.0	Stiff, reddish brown Lean CLAY (CL), trace silt, trace sand, moist	Q = 1.5 tsf
			2.0		
4		9 - 9 - 11 (10)	3.0	Q = 2.5 tsf	
			4.0		
			5.0		
			6.0	Test Pit terminated at 5.5 feet on weathered Dolomite	Test Pit dry time of excavation
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 4
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 5 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA		
	TYPE	NO.		SOIL DESCRIPTION	REMARKS	
2	WOR	(0)	1.0	Very soft, brown lean CLAY and debris (FILL). Debris includes wood, plastics, miscellaneous trash	Additional Test Pits (TP 4a through TP 4d) as shown on Figure 3, were performed to delineate the extent of the fill. No fill was encountered in the additional test pits. Water flowing into excavation at 3.5 feet. *Weight of the rod (WOR) Rod was pushed easily from 2 feet to 4 feet.	
			2.0			
			3.0			
			4.0			
			5.0			Test Pit Terminated at 4 feet, due to excessive water in the excavation
			6.0			
			7.0			
			8.0			
			9.0			
			10.0			

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 5
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 6 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
			TOPSOIL		
			1.0	Test Pit terminated at 0.5 feet on weathered Dolomite	Test Pit dry time of excavation
			2.0		
			3.0		
			4.0		
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 6
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 5 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
2		4 - 7 - 8 (8)	1.0	Stiff, brown Lean CLAY (CL), some silt, trace sand, moist	Q = 0.5 tsf
			2.0		Q = 1.0 tsf
			3.0		Q = 1.5 tsf
			4.0		Q = 2.0 tsf
4		6 - 8 - 10 (9)	5.0	Q = 2.0 tsf	
			6.0	Very Stiff, yellow-gray Fat CLAY (CH), some silt, very moist	
			7.0	Test Pit terminated at 5.9 feet on weathered Dolomite	
			8.0	Test Pit dry time of excavation	
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 7
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 2 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
			1.0	Soft, dark gray, black, Lean CLAY (CL) and wood fragments, some silt, very moist	Primarily wood fragments
			2.0	Test Pit terminated at 1.5 feet on weathered Dolomite	Test Pit dry time of excavation
			3.0		
			4.0		
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulle - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 8
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 2 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
			1.0	Soft, dark gray, black, Lean CLAY (CL) and wood fragments, some silt, very moist	Primarily wood fragments
			2.0	Test Pit terminated at 1.5 feet on weathered Dolomite	Test Pit dry time of excavation
			3.0		
			4.0		
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



amec
foster
wheeler

Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 9
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 3 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA		
	TYPE	NO.		SOIL DESCRIPTION	REMARKS	
2		3 - 4 - 10 (5)	1.0	Medium stiff to stiff, brown Lean CLAY (CL), some silt, trace sand, moist	Q = 0.5 tsf	
			2.0			Q = 3.5 tsf
			3.0			Q = 1 tsf
			4.0			Q = 4 tsf
			5.0			Q = 4 tsf
4		3 - 4 - 5 (7)	5.0	Very Stiff, gray Fat CLAY (CH), some silt, very moist	Q = 4 tsf	
			Test Pit terminated at 5 feet on weathered Dolomite			Test Pit dry time of excavation
			6.0			
			7.0			
			8.0			
			9.0			
			10.0			

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 10
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 2 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
			1.0	Soft, dark gray, black, Lean CLAY (CL) and wood fragments, some silt, very moist	
			2.0	Test Pit terminated at 1.9 feet on weathered Dolomite	Q = 1.0 tsf Test Pit dry time of excavation
			3.0		
			4.0		
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 11
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 5 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
			1.0	Very stiff, brown Lean CLAY (CL), some silt, trace sand, moist	
			2.0	Test Pit terminated at 2.0 feet on weathered Dolomite	Q = 3.5 tsf Test Pit dry time of excavation
			3.0		
			4.0		
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 12
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 4 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
2		25 blows/0.5"	0.0	Very stiff, brown Lean CLAY (CL), some silt, trace sand, moist	Test Pit dry time of excavation
			1.0		
			2.0	(Rippable) light brown weathered DOLOMITE	
			3.0		
			4.0	Test Pit terminated at 3.0 feet on weathered Dolomite	
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 13
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 2 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
2	3 - 4 - 4	(4)	0.0	Soft, dark gray, black, Lean CLAY (CL) and wood fragments, some silt, very moist	Primarily wood fragments from 0 to 2.5 feet
			1.0		
4	5 - 6 - 11	(9)	2.0	Medium stiff, brown Lean CLAY (CL), some silt, trace sand, wet	Q = 1.0 tsf
			3.0		
4	5 - 6 - 11	(9)	4.0	Test Pit terminated at 4.5 feet on weathered Dolomite	Rock depth is variable at the bottom of excavation. Rock depth ranges from 4 feet to 5 feet from the top of ground. Very wet soils observed on the rock surface
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 14
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 3 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
2		7 - 5 - 10 (8)	1.0	Very stiff, brown Lean CLAY (CL), some silt, trace sand, moist	
			2.0		
			3.0	(Rippable) light brown weathered DOLOMITE	
			4.0	Test Pit terminated at 4.0 feet on weathered Dolomite	
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 15
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 5 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
			1.0	Very stiff, brown Lean CLAY (CL), some silt, trace sand, moist	
			2.0	Test Pit terminated at 2.0 feet on weathered Dolomite	Q = 3.5 tsf Test Pit dry time of excavation
			3.0		
			4.0		
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		

TEST PIT RECORD



Project Name: Pulte - Michael's Crossing AMEC Project No.: 7382-15-3152
 Subcontractor: Allgeier Operator Personnel: Carl M.
 Excavator Type: Rubber Tire/ Backhoe Surface Elevation: N/A
 Bucket Width: 2 Feet
 Logged By: Ariel Sarno

Test Location No. TP - 16
 Date Started: 4/23/2015
 Date Finished: 4/23/2015
 Topsoil Thickness: 2 inches

DEPTH	SAMPLE		Depth (ft)	SOIL STRATA	
	TYPE	NO.		SOIL DESCRIPTION	REMARKS
			1.0	Soft, dark gray, black, Lean CLAY (CL) and wood fragments, some silt, very moist	
			2.0		Q = 1.0 tsf
				Test Pit terminated at 2.0 feet on weathered Dolomite	Apparent spring encountered at 2 feet. Water flowing into the bottom of the excavation
			3.0		
			4.0		
			5.0		
			6.0		
			7.0		
			8.0		
			9.0		
			10.0		