

**Geologic Drill Hole Log & Piezometer As-Built**

Hole No.	180-17B	Operation Name	Abandoned Nickle Plate Mine "Blowout", McDonald, PA
Road Name	Hill Street	Contract & OSM #	EP 3555440000-05-01; OSM 63(1441)101.1
Sfc. Elev.	1064.12	Drilling Method(Date)	air-rotary; 4 3/4" carbide button bit (03/10/05)
Surveyed by	PA DEP, BAMR	Driller(License#)	McKay & Gould Drilling Co. (PA-0592); Lynn Gould (driller)
Client	PA DEP, BAMR	Municipality/County	McDonald Borough/Allegheny County
Remarks	all dimensions in feet, unless noted	Quadrangle	7 1/2 ' Canonsburg (PR1979)
Logged by	Margaret H. Dunn, PG (PA-000771)	Latitude	40.37406057
		Longitude	-80.23172222

Depth	Thick-ness	Scale	Lithology	Graphic Log	"As-Built"	Water Level Data				Comments	
						DTW	WE	Date	Time		
		0			(1)	16.6	1047.6	03/11/05	0730	WE - rounding discrepancies	
0	1		asphalt & road base	+++++		16.7	1047.4	03/11/05	1445		
1			fill; @1-5 clayey; org to bn, damp shaly, v. wx	//////////	~x-x	16.8	1047.3	03/14/05	0730		
			@5-12 CS; lt- to md-gy, bn zones, v. wx	//////////	x-x~	16.8	1047.3	03/14/05	1527		
	11			//////////	(2)	16.9	1047.2	03/15/05	0730		
				//////////	~x-x	17.1	1047.0	03/16/05	0730		
				~~~~~	x-x~	17.4	1046.7	03/17/05	0730		
				~~~~~	x-x~	17.3	1046.8	3/18/05	0730		
				~~~~~	(3)	17.3	1046.9	03/18/05	1451		
		10		~~~~~	~x-x	17.7	1046.4	03/21/05	0730		
12			carbonaceous zone, dry @12-13 STSH; carb @13-15 coal & bony @15-17 SH; md-gy (@15 add rod)		(4)					(4) Shale trap: @11.7	
			@17-18 coal @18-19 (void) @19-25 (in-mine rubble)		(5)					(5) Screen: 13.7-18.7	
	13	20		X o X o X o X o o X o X o X o X X o X o X o X o o X o X o X o X X o X o X o X o o X o X o X o X	(6)	TD 18.7					Caved to 18.7 as riser set
		30									
		40									
		50									
		60									
		70									
		80									

**WELL CONSTRUCTION**  
 (1) Cap: 5 3/4" flush-mount, 7/16" bolt  
 (2) Grout: bentonite (chips) & drill chips  
 (3) Riser: 2", Sch. 40, PVC, threaded; J-Plug  
 (4) Shale trap: 2"x5", bell-shaped, rubber  
 (5) Screen: 20,000<sup>#</sup> slot, Sch. 40 PVC  
 (6) Slip cap: 2" PVC