Geologic Drill Hole Log & Piezometer As-Built

Hole No.	180-24B	Operation Name	Abandoned Nickle Plate Mine "Blowout", McDonald, PA
Road Name	North McDonald Street	Contract & OSM #	EP 3555440000-05-01; OSM 63(1441)101.1
Sfc. Elev.	1091.45	Drilling Method(Date)	air-rotary; 4 3/4" carbide button bit (03/09/05)
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 ½ ' Oakdale (PR1990)
Logged by	Margaret H. Dunn, PG (PA-000771)	Latitude	40.37608456 Longitude -80.23453124

Depth	Thick-ness	Scale	Lithology	Graphic Log	"As-Built"	Water Level Data DTW	WE	Date	Time	Comments
		0			(1)	44.4	1047.0	03/11/05	0730	WE - rounding discrepancies
0	1½		asphalt and road base	++++++++++++		NM	----	03/11/05	1540	
1½	4½		fill/regolith; clayey, buff, damp	/ / / / / / / / / / / /		44.9	1046.5	03/14/05	0730	
6			CS; dry	~~~~~~~~~~~~		44.9	1046.5	03/14/05	1426	
			@6-13 CS; lt-org	~~~~~~~~~~~~		45.1	1046.4	03/15/05	0730	
		__10__		~~~~~~~~~~~~		45.2	1046.2	03/16/05	0730	
	14			~~~~~~~~~~~~	(2)	45.4	1046.0	03/17/05	0730	(2) Grout: ½ -32
			@13-15 CS; md-gy	~~~~~~~~~~~~		45.5	1045.9	03/18/05	0730	
			@15-18 CS; OD (@15 add rod)	~~~~~~~~~~~~	(3)	45.4	1046.1	03/18/05	1210	(3) Riser: ½ -36
			@18-20 CS; md-gy	~~~~~~~~~~~~		45.6	1045.9	03/21/05	0730	
		20		~~~~~~~~~~~~						
20			STS & SH; lt- to md-gy, dry	-.-.-.-.-.-.-.-.-.-						
			@20-25 STS	-.-.-.-.-.-.-.-.-.-						
	8			-.-.-.-.-.-.-.-.-.-						
			@25-28 SH	----------						
28			carbonaceous zone, dry	----------						
		__30__	@28-29 SH; dk-gy							
			(@ 30 add rod)							
			@29-34 SH; carb & bony		(4)					(4) Shale trap: @32
			@34-35 SH; carb							
			@35-38 SH; dk-gy	----------						
	19		@38-40 SH; carb							
		__40__								
			@40-41 SH; dk-gy	----------						
			@41-47 (void)		(5)					(5) Screen: 36-46
					----WL----					
					----WL----					
			(@45 add rod)		(6)					
			(in-mine rubble)	X o X o X o X o	TD 46					caved to 46 as riser set
		__50__		TD 47						
		__60__								
		__70__								**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: 20,000th slot, Sch. 40 PVC (6) Slip cap: 2" PVC
		__80__								