Geologic Drill Hole Log & Piezometer As-Built

Hole No.	180-16	Operation Name	Abandoned Nickle Plate Mine "Blowout", McDonald, PA
Road Name	Roark Street	Contract & OSM #	EP 3555440000-05-01; OSM 63(1441)101.1
Sfc. Elev.	1073.87	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	7½' Oakdale (PR1990)
Logged by	Margaret H. Dunn, PG (PA-000771)	Latitude	40.37658016 Longitude -80.23108034

Depth	Thick-ness	Scale	Lithology	Graphic Log	"As-Built"	Water Level Data DTW	WE	Date	Time	Comments
		0			(1)	26.6	1047.3	03/11/05	0730	WE - rounding discrepancies
0	1		tar & chip; brick/red dog?	++++++++++++		26.6	1047.3	03/11/05	1247	
1			fill; @1-2 clayey; md- to dk-gy, wet	/ / / / / / / / / / /	~~~~	27.0	1046.9	03/14/05	0730	
			@2-5 sandy; org to bn, dry	/ / / / / / / / / / /	~~~~	26.8	1047.1	03/14/05	1551	
				/ / / / / / / / / / /	~~~~	27.1	1046.7	03/15/05	0730	
			@5-7 shale frags; dk-org,	/ / / / / / / / / / /	~~~~	27.3	1046.6	03/16/05	0730	
			fill/regolith;	/ / / / / / / / / / /	~~~~	27.3	1046.5	03/17/05	0730	
	14		@7-10 clayey; md-gy, wet	/ / / / / / / / / / /	~~~~	27.4	1046.5	3/18/05	0730	
				/ / / / / / / / / / /	~~~~	27.3	1046.5	03/18/05	1557	
				/ / / / / / / / / / /	~~~~	27.5	1046.4	03/21/05	0730	
		10	@10-15 no air return	/ / / / / / / / / / /	~~~~					
			(material sticky)		~~~~					
					(2)					(2) Grout: ½ - 25
					~~					
					~~					
					(3)					(3) Riser: ½ - 28½
15			carbonaceous zone, dry		~~~~					
			@15-28 SH; carb		~~~~					
			(@15 add rod)		~~~~					
			some STSH; dk-gy	----.----.----.----	~~~~					
		20		--- .---.---.---.--	~~~~					
					~~					
					~~					
				----.----.----.----	~~~~					
					~~					
					~~					
			@25 coal streak		(4)	_WL_				(4) Shale trap: @25
	25									
			@28-28½ coal & bony							
		30	@28½-30½ coal w/some bony							
			(@ 30 add rod; water)							
			@30½-32 bony							
			@32-33 SH; carb		(5)					(5) Screen: 28½ - 38½
			@33-36½ coal							
			@36½-40 (void)							
					(6)					
		40				TD38½				
40			[Pgh Seatearth?]	TD 40		(caved)				Caved to 38½ as riser set
		50								
		60								
										WELL CONSTRUCTION
										(1) Cap: 5 3/4" flush-mount, 7/16" bolt
										(2) Grout: bentonite (chips)
		70								(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								