Geologic Drill Hole Log & Piezometer As-Built

Hole No.	180-15	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.	1103.71	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	7½‘ Oakdale (PR1990)/Canonsburg (PR1979)
Logged by	Margaret H. Dunn, PG (PA-000771)	Latitude	40.37507162 Longitude -80.23095663

Depth	Thick-ness	Scale	Lithology	Graphic Log	“As-Built”	Water Level Data DTW	WE	Date	Time	Comments
		0			(1)	60.3	1043.4	03/11/05	0730	WE - rounding discrepancies
0	1½		asphalt; brick	++++++++++++		60.5	1043.2	03/11/05	1540	
1½			fill(?) or CS; lt-green & dk-od, v. wx	/ / / / / / / / / / /	~x~x	60.4	1043.3	03/14/05	0730	
			@2-10 poor air return	~~~~~~~~~~~	x~x~	60.5	1043.3	03/14/05	1551	
				~~	~x~x	60.4	1043.2	03/15/05	0730	
				~~	x~x~	60.5	1043.2	03/16/05	0730	
				~~	~x~x	60.5	1043.2	03/17/05	0730	
	13½			~~~~~~~~~~~	x~x~	60.5	1043.2	03/18/05	0730	
				~~	~x~x	60.5	1043.2	03/18/05	1515	
				~~	x~x~	60.6	1043.2	03/21/05	0730	
		__10__	@10-15 CS; md- to bright-org,	~~~~~~~~~~~	~x~x					
			wx, dry	~~~~~~~~~~~	x~x~					
				~~	(2)					(2) Grout: ½ - 46
				~~	~x~x					
				~~	x~x~					
				~~	(3)					(3) Riser: ½ -51
15			STS; md-org to od, (@15 add rod)	-.-.-.-.-.-.-.-.-.-	~x~x					
			dry	-.-.-.-.-.-.-.-.-.-	x~x~					
				-.-.-.-.-.-.-.-.-.-	~x~x					
				-.-.-.-.-.-.-.-.-.-	x~x~					
		__20__		-.-.-.-.-.-.-.-.-.-	~x~x					
				-.-.-.-.-.-.-.-.-.-	x~x~					
	12			-.-.-.-.-.-.-.-.-.-	~x~x					
				-.-.-.-.-.-.-.-.-.-	x~x~					
				-.-.-.-.-.-.-.-.-.-	~x~x					
				-.-.-.-.-.-.-.-.-.-	x~x~					
				-.-.-.-.-.-.-.-.-.-	~x~x					
				-.-.-.-.-.-.-.-.-.-	x~x~					
27			STS; md-gy w/SS; md-gy, fn-gn,	-.-.-.-.-.-.-.-.-.-	~x~x					
			dry	.....	x~x~					
	6	__30__		-.-.-.-.-.-.-.-.-.-	~x~x					
			(@ 30 add rod)	.....	x~x~					
				-.-.-.-.-.-.-.-.-.-	~x~x					
				-.-.-.-.-.-.-.-.-.-	x~x~					
33			CS & STS; lt- to md-gy, dry	~~~~~~~~~~~	~x~x					
				-.-.-.-.-.-.-.-.-.-	x~x~					
	5			~~~~~~~~~~~	~x~x					
				-.-.-.-.-.-.-.-.-.-	x~x~					
				~~	~x~x					
38			carbonaceous zone, dry		x~x~					
		__40__	@38-44 SH; carb		~x~x					
					x~x~					
					~x~x					
					x~x~					
					~x~x					
			@44-44½ bony	IIIIIIIIIIIIIIII	x~x~					
			@44½-51 STSH; carb		~x~x					
			(@45 add rod)		(4)					(4) Shale trap: @46
		__50__								
	23		@51-52 STSH; dk-gy	---- --- --- ---						
			@52-55 SH; carb							
			@55-55½ (void)		(5)					(5) Screen: 51- 61
			@55½-57 (caving roof)	XoXoXoXoXoX						
			@57-60 (void)							
		__60__								
			@60-61 (in-mine rubble)	X o X o X o X o	(6)					
				TD 61		TD 61				
										WELL CONSTRUCTION
										(1) Cap: 5 3/4" flush-mount, 7/16" bolt
										(2) Grout: bentonite (chips) & drill 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__								