Geologic Drill Hole Log & Piezometer As-Built

Hole No.	180-23	Operation Name	Abandoned Nickle Plate Mine “Blowout”, McDonald, PA
Road Name	Fannie Street	Contract & OSM #	EP 3555440000-05-01; OSM 63(1441)101.1
Sfc. Elev.	1120.40	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	40.37 Longitude -80.23

Depth	Thick-ness	Scale	Lithology	Graphic Log	“As-Built”			Water Level Data				Comments
								DTW	WE	Date	Time	
		0						74.5	1045.9	03/09/05	1424	1-hr WL
0	2		asphalt & brick	++++++++++++	~x~x	~x~x~x~	x~x~x	72.8	1047.6	03/09/05	1600	WE - rounding discrepancies
				++++++++++++	~x~x	~x~x~x~	x~x~x					bkfl w/bentonite (chips) & drill chips
2	4		fill(?); clayey, md-brn & md-gy	/ / / / / / / / / / / /	x~x~	x~x~x~x	~x~x~					
			@2-6 poor air return, damp	/ / / / / / / / / / / /	~x~x	~x~x~x~	x~x~x					
				/ / / / / / / / / / / /	x~x~	x~x~x~x	~x~x~					
				/ / / / / / / / / / / /	~x~x	~x~x~x~	x~x~x					
6			LS & CS zone, dry	~~~~~~~~~~~~	x~x~	x~x~x~x	~x~x~					
			@6-10 CS; lt-gy, limey, wx	~~~~~~~~~~~~	~x~x	~x~x~x~	x~x~x					
				~~	x~x~	x~x~x~x	~x~x~					
		__10__		~~~~~~~~~~~~	~x~x	~x~x~x~	x~x~x					
			@10-11 CS; bright-gn	~~~~~~~~~~~~	x~x~	x~x~x~x	~x~x~					
			@11-12 SH; carb		~x~x	~x~x~x~	x~x~x					
			@12-15 LS; lt-gy, md-gn, arg	-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	~x~x	~x~x~x~	x~x~x					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
			@15-17 CS; md-gy	~~~~~~~~~~~~	~x~x	~x~x~x~	x~x~x					
			(@15 add rod)	~~~~~~~~~~~~	x~x~	x~x~x~x	~x~x~					
			@17-23 LS; lt-gy, v. arg	-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	x~x~	x~x~x~x	~x~x~					
		__20__		-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
			@23-37 CS; md- to dk-gy	~~~~~~~~~~~~	~x~x	~x~x~x~	x~x~x					
				~~	x~x~	x~x~x~x	~x~x~					
				~~	~x~x	~x~x~x~	x~x~x					
				~~	x~x~	x~x~x~x	~x~x~					
				~~	~x~x	~x~x~x~	x~x~x					
				~~	x~x~	x~x~x~x	~x~x~					
		__30__		~~~~~~~~~~~~	~x~x	~x~x~x~	x~x~x					
			(@ 30 add rod)	~~~~~~~~~~~~	x~x~	x~x~x~x	~x~x~					
				~~	~x~x	~x~x~x~	x~x~x					
	53			~~~~~~~~~~~~	x~x~	x~x~x~x	~x~x~					
				~~	~x~x	~x~x~x~	x~x~x					
				~~	x~x~	x~x~x~x	~x~x~					
				~~	~x~x	~x~x~x~	x~x~x					
				~~	x~x~	x~x~x~x	~x~x~					
			@37-59 LS; md-gy, md-gn, arg	-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	x~x~	x~x~x~x	~x~x~					
		__40__		-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	~x~x	~x~x~x~	x~x~x					
			(@45 add rod)	-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
		__50__		|-|-|-|-|-|-|-|-|-|-|-|-|-|-	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	~x~x	~x~x~x~	x~x~x					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				|-|-|-|-|-|-|-|-|-|-|-|-|-|-	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
59		__60__	carbonaceous zone, dry		~x~x	~x~x~x~	x~x~x					
			(@60 add rod)		x~x~	x~x~x~x	~x~x~					
			@59-65 SH; carb		~x~x	~x~x~x~	x~x~x					
					x~x~	x~x~x~x	~x~x~					
					~x~x	~x~x~x~	x~x~x					
					x~x~	x~x~x~x	~x~x~					
			@65-66 bony		~x~x	~x~x~x~	x~x~x					
			@66-74 SH; carb, silty zones		x~x~	x~x~x~x	~x~x~					
					~x~x	~x~x~x~	x~x~x					
					x~x~	x~x~x~x	~x~x~					
		__70__			x~x~	x~x~x~x	~x~x~					
					~x~x	~x~x~x~	x~x~x					
					x~x~	x~x~x~x	~x~x~					
					~x~x	~x~x~x~	x~x~x					
					x~x~	x~x~x~x	~x~x~					
			@74-75 coal		~x~x	~x~x~x~	x~x~x					
	28		(@75 add rod)		x~x~	x~x~x~x	~x~x~					
			@75-80 coal & bony		~x~x	~x~x~x~	x~x~x					
					x~x~	x~x~x~x	~x~x~					
					~x~x	~x~x~x~	x~x~x					
		__80__			x~x~	x~x~x~x	~x~x~					
			@80-82 coal		~x~x	~x~x~x~	x~x~x					
					x~x~	x~x~x~x	~x~x~					
			@82-83 parting; md-gy	~~~~~~~~~~~~	x~x~	x~x~x~x	~x~x~					
			@83-87 coal; v. soft, damp@85		x~x~	x~x~x~x	~x~x~					
					~x~x	~x~x~x~	x~x~x					
					x~x~	x~x~x~x	~x~x~					
			[Pgh coalbed]		~x~x	~x~x~x~	x~x~x					
87			LS; md-gy, v. arg [Pgh Seatearth]	-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
				-|-|-|-|-|-|-|-|-|-|-|-|-|-|	~x~x	~x~x~x~	x~x~x					
		__90__		-|-|-|-|-|-|-|-|-|-|-|-|-|-|	x~x~	x~x~x~x	~x~x~					
				TD 90								
		_100_										