Geologic Drill Hole Log & Piezometer As-Built

Hole No.	180-25A	Operation Name	Abandoned Nickle Plate Mine "Blowout", McDonald, PA
Landowner	Aloe Family Limited Partners	Contract & OSM #	EP 3555440000-05-01; OSM 63(1441)101.1
Sfc. Elev.	1084.03	Drilling Method(Date)	air-rotary; 4 3/4" carbide button bit (04/01/05)
Surveyed by	PA DEP, BAMR	Driller(License#)	McKay & Gould Drilling Co.(PA-0592); Mike Hollabaugh (driller)
Client	PA DEP, BAMR	Municipality/County	North Fayette Township/Allegheny County
Remarks	all dimensions in feet, unless noted	Quadrangle	7½' Oakdale (PR1990)
Logged by	Mike Hollabaugh, Driller	Latitude	40.37685371 Longitude -80.23009250

Depth	Thick-ness	Scale	Lithology	Graphic Log	"As-Built"			Water Level Data DTW	WE	Date	Time	Comments
		0			(1)			40.22	1046.8	04/05/05	1033	(1) "Stick-Up": 3.02; elev. at top = 1087.05
0			clay; bn	~~~~~~~~~~	~x~x		~x~x	40.23	1046.8	04/06/05	1602	(DTW reported from top of "Stick-Up")
				~~	~x~x		~x~x	40.00	1047.0	04/07/05	1010	
				~~	x~x~		x~x~	39.66	1047.4	04/09/05	0738	WE - rounding discrepancies
				~~	~x~x		~x~x	41.79	1045.3	06/10/05	1250	
	9			~~~~~~~~~~	x~x~		x~x~					
				~~	~x~x		~x~x					
				~~	x~x~		x~x~					
				~~	~x~x		~x~x					
				~~	x~x~		x~x~					
9		__10__		- - - - - - - - -	~x~x		~x~x					
				- - - - - - - - -	x~x~		x~x~					
	5		SH; gy	- - - - - - - - -	(2)		~x~x					(2) Grout: 0 - 41½
				- - - - - - - - -	~x~x		x~x~					
				- - - - - - - - -	x~x~		~x~x					
14			**SH; gy W/SS streaks**	- - - - - - - - -	(3)		x~x~					(3) Riser: 0 - 43½
			(@ 15 add rod)	- - - - - - - - -	~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~					
	29			- - - - - - - - -	~x~x		~x~x					
				- - - - - - - - -	x~x~		x~x~					
		__30__		.....	~x~x		~x~x					
			(@ 30 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					
				- - - - - - - - -	x~x~		x~x~					
		__40__		.....	~x~x	_WL_	~x~x					
				- - - - - - - - -	~x~x		~x~x					
				- - - - - - - - -	(4)	---WL---						(4) Shale trap: @41½
				- - - - - - - - -		----------						
43	2		coal			----------						

45			SH; silty (@45 add rod)	.------.----------		----------						
	3			----.----.----------		----------						
				-----.----------		----------						
48	2		coal & SH		(5)	----------						(5) Screen: 43½ - 53½
		50				----------						
50			(rubble)	XoXoXoXoXoX		----------						
	3			XoXoXoXoXoX		----------						
				XoXoXoXoXoX		----------						
53	1½		CS; gy [Pittsburgh Seatearth]	~~~~~~~~~~	(6)	TD 53½						(bottom caved to 53½)
54½			LS	I-I-I-I-I-I-I-I-I-I								
				TD 55								
		__60__										(4/1/05 during drilling est. 50 gpm @ 48)
		__70__										**WELL CONSTRUCTION** **(1) "Stick-Up" with slip cap: 2" PVC** **(2) Grout: bentonite (chips) & drill chips** **(3) Riser: 2", Sch. 40, PVC, threaded** **(4) Shale trap: 2"x5", bell-shaped, rubber** **(5) Screen: 20,000th slot, Sch. 40 PVC** **(6) Slip cap: 2" PVC**