

**Geologic Drill Hole Log & Piezometer As-Built**

Hole No.	180-26A	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.	1079.87	Drilling Method(Date)	air-rotary; 4 3/4" carbide button bit (04/04/05)
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	7 1/2 Oakdale (PR1990)
Logged by	Margaret H. Dunn, PG (PA-000771)	Latitude	40.37680403
		Longitude	-80.23061531

Depth	Thick-ness	Scale	Lithology	Graphic Log	"As-Built"		Water Level Data				Comments
							DTW	WE	Date	Time	
		0			(1)		35.89	1046.8	04/05/05	1010	(1) "Stick-Up": 2.86; elev. at top = 1082.73 (DTW reported from top of "Stick-Up")
0	2		SBS; lt-bn & org clay, dry		~x-x	~x-x	35.89	1046.8	04/06/05	1338	
2	3 1/2		clay; OD, dry		~x-x	~x-x	35.68	1047.1	04/07/05	1436	WE - rounding discrepancies
5 1/2	1 1/2		SS & STS; md-gy w/bn zones, dry		~x-x	~x-x	35.27	1047.5	04/09/05	0723	
7	8	10	STSH; md-gy & bn, dry		~x-x	~x-x	37.53	1045.2	06/10/05	1310	(2) Grout: 0 - 35
			(@ 15 add rod)		(2)	~x-x					(3) Riser: 0 - 37
15			carbonaceous zone, dry		(3)	~x-x					
		20	@15-19 SH; dk-gy to blk, carb,		~x-x	~x-x					
			@19-20 SH; carb		~x-x	~x-x					
			@20-22 SH; md to dk gy		~x-x	~x-x					
			@22-26 SH; md-gy		~x-x	~x-x					
			@26-28 SH; dk-gy		~x-x	~x-x					
			@28-29 STS; md-gy		~x-x	~x-x					
		30	@29-32 SH; md-gy; silty		~x-x	~x-x					
			@32-35 STS; md-gy		~x-x	~x-x					
			(@ 35 add rod)		~x-x	~x-x					
			@35-37 SH; dk-gy		(4)	~x-x					(4) Shale trap: @35
			@37-39 coal			~x-x					
		40	@39-40 bony		(5)	~x-x					(5) Screen: 37- 47
			@40-41 SH; dk-gy			~x-x					
			@41-42 coal			~x-x					
			@42-47 (void)			~x-x					
47			[Pgh Seatearth?]	TD 47	(6)	TD 47					(rods wet when pulled) (caving heard falling into water prior to casing)
		50									
		60									
		70									
		80									

**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: 20,000<sup>th</sup> slot, Sch. 40 PVC  
 (6) Slip cap: 2" PVC