

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

Hole No.	180-29	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.	1045.83	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	7½ Oakdale (PR1990)
Logged by	Margaret H. Dunn, PG (PA-000771)	Latitude	40.37748763
		Longitude	-80.22914435

Depth	Thick-ness	Scale	Lithology	Graphic Log	"As-Built"		Water Level Data				Comments	
							DTW	WE	Date	Time		
		0										
0			spoil; dry coal frags bony frags@2½ (water ~5 gpm)	XOXOXOXOX XOXOXOXOX       XOXOXOXOX XOXOXOXOX XOXOXOXOX XOXOXOXOX XOXOXOXOX XOXOXOXOX XOXOXOXOX	(1) ~x-x ~x-x x-x- (2) x-x- (3) x-x- ~x-x ~x-x ~x-x XOXOXOXOX	WL WL	~x-x ~x-x x-x- ~x-x x-x- ~x-x ~x-x ~x-x ~x-x	4.64 4.73 4.69 4.68 4.82 5.95	1044.4 1044.3 1044.3 1044.3 1044.2 1043.1	04/05/05 04/06/05 04/07/05 04/09/05 04/10/05 06/10/05	1149 1707 1152 0807 1031 1320	(1) "Stick-Up": 3.19; elev. at top = 1049.02 (DTW reported from top of "Stick-Up") WE - rounding discrepancies (2) Grout: 0 - 9½ (3) Riser: 0 - 10 (4) Shale trap: @9½ (5) Screen: 10 - 15
10	1		coal & shale; carb (water ~10 gpm)		(4)							
11	3		coal; in place (water ~20 gpm) [Pgh coalbed]		(5)							
14	1		CS; lt-gy [Pgh seatearth]		(6)							
15			LS; lt-gy	I-I-I-I-I-I-I-I-I-I		TD 15						
		20										
		30										
		40										
		50										
		60										
		70										
											<p><b>WELL CONSTRUCTION</b>                      (1) "Stick-Up" with slip cap: 2" PVC                      (2) Grout: bentonite (chips) &amp; 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</p>	