

DRILL HOLE LOG - COVER SHEET

Hole no. 45/28E-21 DBA Date spudded 8 Nov 1976  
Inclination Vert Date completed 19 Nov 1976  
Bearing \_\_\_\_\_ Date logged Nov. 8-18, 1976  
Total depth <sup>drilled,</sup> 815 (426' and) Logged by G.L.B.  
Casing record 8" steel to 50 ft. - PVC to 85 ft.  
Hole name Black Mountain

LOCATION

Topographic quad. Adelphi Mtn. 7 1/2 x 2 quad. Pendleton  
BLM quad. \_\_\_\_\_ Other map \_\_\_\_\_  
Section NW 1/4 SE 1/4 21 Township 34S Range 28E W.P.L. & M.  
County Morrow Co. Elevation 3880 feet \_\_\_\_\_ meters  
Bearing and distance \_\_\_\_\_

Drilling Contractor Larry Burd  
Address Pendleton, Ore  
Drilling method Air Rotary  
Condition of hole Grouted 0-815 ft.

Ground cover (vegetation) none @ hole - surrounding conifer forest  
Slope orientation gentle to mod. N  
Topographic setting granite quarry just above creek bottom

GROUNDWATER: SML \_\_\_\_\_ Flow \_\_\_\_\_

Aquifers None

Comments: 11/11/76 - 10:30 AM - mod. bottom hole temp. @ 455' - 12.54°C  
11/9/76 - " " " " " 815' 16.52°C

*drilled to 815',  
but when pressure  
grouting hole,  
ruptured PVC @  
130 m (426 ft.)*

*hole located in a small quarry on NE side of  
road; approx. .05 miles N of cattle guard marking  
National Forest boundary  
hole ~25 ft. from base of nearly vertical outcrop face -  
part of steep SW facing hillside, ENE.*

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Logged by G.L. Black

Date Nov. 1976

Interval		thick- ness	Drill Meth.	Samp.	Geologic Description
from	to				
0	1 ft.	1 ft.	Air hammer	cut. 9 ft.	soil
				20	
1	9	8		50	intensely weathered biotite quartz diorite (bqd)
				60	10% euhedral to subhed. biot. altered to bronze color
				80	1-2% subhed. hbl. altered to chl. (?)
				100	25-30% anhedral qtz.
					58-64% feldspar, altered
				Core 104-107	
9	815	806			altered bqd ; plag. is saussurized ; epidote as 1 mm grains @ 100 ft.
				cut. 120	
				140	calcite veinlet @ 160 ft.
				160	tr. f. gn pyrite @ 200 ft.
				180	1-2% diss pyrite @ 280 ft.
				200	pyrite & carbonate @ 502 ft.
				220	" " " @ 537 ft.
				240	" " " @ 650 ft.
				260	
				280	} @ 220 ft. 25% qtz. 10-15% bio. 60-65% altered plag.
				300	
				320	
				340	
				360	
				380	Cuttings also sampled at 460, 480, 500, 502,
				400	520, 540, 560, 580, 600, 620, 640, 650, 660, 680,
				420	700, 720, 740, 760, 780, 800, 815 ft.
				440	
				Core 450-452	PVC observation pipe installed 0-815 ft. Hole grouted 0-815 ft.