Borehole 20-MW-2

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Log of Borehole

Project: Vandenberg	8" Hole Depth: 30½ feet		START / FINISH
Location: Site 820 LF-1	12" Hole Depth: NA	Date	7/7/87 / 7/7/87
Geologic Log by: Doornbos	Depth to Water: 23.8 feet	Time	0754 / 0945
Driller: Fred Carey (Beylik)	Rig: CME 55 ATV	How Left	Locked, above-ground well completion.
Drilling Method: Hollow-stem Auger	Bit(s): Finger-tooth Auger Bit		
Weather: Foggy and Overcast/Cool	TOC Elevation: 305.5 feet		

Depth	Pene. Rate/ Blow Cts	OVA/ Sample	OVA/ Hole	Sample #	Sample Interval	Lith. Symbol	Geologic and Hydrologic Description	% Core Recovery
0							4'-5½': Silty sand (60% fine grained sand), 40% silt with minor clay, majority quartz with minor k-spar, some mafics, 7-10% silicified diatomite (large angular fragments), dry, loosely compacted, black (10YR 2/1). (SM)	
5	3,4,7	0.0	0.0		4-5½			100%
							9'-10½': Silty sand (70% fine- to medium-grained sand), 30% silt and clay, minor lithics (silicified diatomite), same as above except slight increase in clay (±10%). 2nd spoon same as above except with 10-15% clay. (SM)	
10	2,4,6	0.0	0.0		9-10½			70%
	3,7,11							
							14'-15½': Silty clay (10-12% angular medium grained sand), poorly sorted, lithics of diatomite and minor quartz, slightly moist, loose compact, black (10YR 2/1), strong local iron oxide, moderate plasticity. 2nd spoon, same as above. (CL)	
15	1,4,5	6.8	0.0	5513	14-15½			20%
	5,5,12	6.3						
							19'-20½': Silty clay (5-7% angular medium-grained sand), ±25% silt fragments, 10% angular olive green diatomite fragments, moderate to highly moist, medium plasticity, medium stiff, very dark brown. (CL)	
20	1,3,7	0.4	0.4		19-20½			15%
25	2,2,5	1.2	1.8	5514	24-25½			90%
							24': Encountered 2 to 3 of water.	
							24'-25½': Lean clay with abundt diatomite fragments, (10-15% fine grained sand), 40% large angular olive gray diatomite fragments (in the regolith), very moist, stiff, medium plasticity, very dark gray (2.5Y 3/3), in the regolith with the diatomite weathering to clay.	
30	20,20/12	11.0	0.6	5515	29-30½			100%

OVA background 1.0ppm

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	START	FINISH
Date	7/7/87	7/7/87
Time	0754	0945

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Depth	Pene. Rate/ Blow Cts	OVA/ Sample	OVA/ Hole	Sample #	Sample Interval	Lith. Symbol	Geologic and Hydrologic Description	% Core Recovery
							29'-30½': Diatomite - bedrock, low fat clay due to weathering, fissile, friable, soft, near horizontal dip, local patches of iron oxide, small numerous textural changes (bedding), 1-2 mm, very dark gray (5Y 3/1). Sample was weathered bedrock, encountered top of diatomites.	
							Completed BH in the diatomite.	