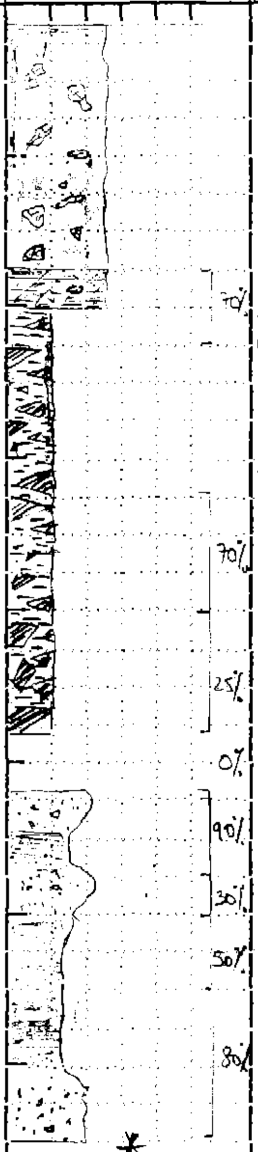
164046

GRAPHIC CORE LOG		Hole No. PHD 2	Depth 37.5 m
Scale	1:250	Project	Peaked Hill EL 9/AA
By	W. HERRMANN	Section	
Date	18 JULY 1997	Collar co-ords	~8970 E ~9230 N RL
Page	1 of 1	Az.	°G 345 °M Incl. -52°

Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast ϕ & Structure	Altn.	Description
0				0 – 0.3 m NO CORE
5		OXIDISED		IRONSTONE: massive compact to earthy siliceous-limonitic ironstone with zones of broken/weathered clayey pug. Ironstone variably siliceous, up to ~70% fine sintery qtz with characteristic drusy cavities; more massively limonitic parts have pitty porous to infilled fine (0.5mm) boxwork texture, but necessarily ex sulphide
(9.7) 10		70% CLAYEY ZONES of POOR CORE RECOVERY		
15		S1 ~80° LAC S1 ~40° LAC		WEATHERED CLAYEY SHALE. Variably orange ironstained to pale grey very soft clayey-soapy weathered shale, relicts of dark grey (least weathered) shale at ~17m. Core is very puggy and has been washed away to low recoveries especially below 20m, but consistent shaly foliation suggests it is weathered in situ and not polymodal rubble/talus
20		70% Recovery		
25		25% Recovery 0% Recovery		
30		90% So ~30° LAC So ~80° LAC 30% "		WEATHERED? - CLAYEY. Diffuse bedded dark grey (slightly pyritic?) MUDSTONE, SANDY MUDSTONE and gritty-LITHIC SANDSTONE. Very poorly sorted, matrix supported angular grains of qtz, minor green mafic/ultramafic minerals and rare subrounded clasts qtzite and sandstone. Similar lithology to PHD1 but no fossils or calcareous units observed. Not fissile or foliated as in shales above; this sequence is surprisingly unlithified for pre Devonian rocks - could it be Permian or younger?? It is soft and appears weathered but is not OXIDISED!
35		50% " 80% "		
40	*			



* Hole abandoned due to difficult drilling conditions: Hole continued to cave in or collapse at ~26m but casing could not be advanced beyond ~20m. Casing eventually recovered with extreme difficulty