164043

GRAPHIC CORE LOG	Hole No. PHD 4	Depth 37.5 m
Scale 1: 250	Project PEAKED HILL	EL 9/96
By W. HERRMANN	Section	
Date 24 JULY 1997	Collar co-ords E	N *Approx 2.5m lower than PHD2 RL*
Page 1 of 1	Az. °G – °M	Incl. −90°

5 cm

Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast φ & Structure	Altn.	Description
0	RECOV. %	(Recovery ~100% unless otherwise noted)		0–0.2m NO CORE
5	clayey/ Rubble 25%	Broken lumps of milky vn Qtz.		MASSIVE – CAVERNOUS – SPONGY LIMONITIC IRONSTONE 80% limonite with fine <2mm cellular boxwork, locally crude layering & marine + vuggy pores, less siliceous than in PHD2
	50%	lumps of friable SLATE		CLAYEY – RUBBLE : Buff clay with broken pieces of milky vn Qtz (above 7.0m) and friable pale-dk grey SLATE (some relict dk grey bands) Fairly solid weathered SLATE 9–11.5m. Generally rather rubbly/broken – possibly sheared
10	Sltd. Dk. grey	SLATE		
	15%			MASSIVE pale grey – buff weathered/leached f-g Qtzitic SANDSTONE
15	BASE of OXIDATION (17m)			SHEARED BLACK GRAPHITIC ? MUDSTONE, slightly Pyritic
	<5%	0.5% disem PYRITE		
20	Slump Breccia?	So: 60°		MASSIVE TO DIFFUSE BEDDED (rarely laminated) f-m grained muddy SANDSTONE – MUDSTONE and minor lithic – pebbly – fossiliferous SANDSTONE. (Identical to lithologies in PD1,2,3) Fossils include coarse shell (Brachiopods? or coenulate bivalves?) + slender septate corals, mainly restricted to below 32m. Clasts variably angular to well rounded incl. pyritic schist, dk grey cherty qtzite, minor red granite?, very immature sediment, sandy grains not well sorted fine to gritty, always matrix supported. As in PD1,2,3, this sst-mudst sequence is soft and virtually unlithified – no evidence of strong cleavage or fissility as in grey SLATE upHole. Soft and evidently weathered but not oxidized, there are common traces of detrital pyrite (<0.2% general) Fairly consistent bedding angles of 60-70° indicate a flat tilt dip (Hole is vertical) * Matrix not generally calcareous except for 37.0–37.5m(0.1) which is lithologically similar to pale grey calcareous limestone at 23.8m in PHD3
	Bioturbated?	So: ~70°		
25				
30		So ~ 60°		
	fossiliferous			
35		So ~ 60°		
	37.5 EOH			
40				