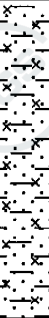







 Norwest Holst Soil Engineering Ltd.		BOREHOLE LOG		Borehole No. 7048	
Contract No. F9553		Method Cable Percussion		Sheet 1 of 1 <i>SK47SW 227</i>	
Location Arkwright Colliery		Borehole Diam (mm) 150		Coords E 444,113 N 370,105	
Client British Coal		Date 09/07/92 10/07/92		Ground Level 92.77 m.A.O.D	
Consultant					

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Sampling & Insitu		Testing		Ground Water	Piezometer Standpipe
				Depth(m)	TCR	() & N	SCR RQD		
TOPSOIL. Medium dense yellowish brown slightly clayey silty fine SAND with occasional medium gravel. (Completely weathered sandstone)		0.10	92.67	J 0.10	0.50				
				U 0.50	0.95	(149)			
				J 0.95	1.10				
				J 1.40	1.60				
--- from 0.95m becoming grey with some fine to coarse gravel of sandstone				SB 2.00	2.60	"14"NR			
Reddish brown highly weathered fine SANDSTONE very weak.		2.60	90.17	B 2.60	4.10				
				SB 4.10	4.80	"50"for 70mmNR			
				B 4.80	5.05				
				C 5.05	5.10	"50"for 75mm*			
--- from 4.80m becoming moderately to slightly weathered Borehole complete at 5.10m.		5.10	87.67						

Daily Progress			Hard Strata		Comments	Logged by:
Date	Final Depth (m) of:		Depth(m)	Time		
	Borehole	Water	Casing			
9/7/92	5.10		3.00	4.80-5.05	1 hour	
10/7/92				5.10-5.40	1hr30min	

Sample and Test Key	J Small Disturbed Sample	S Standard Penetration Test	S.P.T. 1" N for full	 Rotary Core Run	Ground Water		Piezometer  Upper Seal  Sand Cell  Piezometer Tip  Lower Seal  Grout
	B Bulk Disturbed Sample	C Cone Penetration Test	C.P.T. 300mm penetration		T.C.R. Total Core Recovery (%)	1 → First Water Strike	
	U Undisturbed U100 Sample	V Insitu Vane Test	.../200 For given penetration		S.C.R. Solid Core Recovery (%)	2 → Subsequent Water Strike	
	W Water Sample	PR Piezometer Test	.../25" Seating blows only		R.Q.D. Rock Quality Designation (%)	— em/pm Standing Level	
	N.R. No Recovery	K Permeability Test	N.P. No Penetration			Level 20mins after strike	
	D Blows to drive U100				Level 20mins after strike		

Casing maintained just above base of borehole unless stated