

APPENDIX 7.2:
LOG OF BOREHOLE SJ35SE-26

SJ 35 SE 26

3622 5156

North of Bryn Estyn, Bieston 1st No. 121

Block B

Surface level (+73.2 m) +240 ft

Water not struck

Shell and auger 8-in (203 mm) diameter

February 1977

Overburden 1.8 m

Mineral 23.2 m +

LOG

Geological classification	Lithology	Thickness m	Depth m
Glacial Sand and Gravel	Soil, slightly sandy with pebbles	0.3	0.3
	Clay, reddish brown, silty and sandy with occasional fine quartzite pebbles	1.5	1.8
	Sand, pebbly in parts	23.2+	25.0
	Sand: buff-brown, medium and fine with a trace of coarse, subangular to subrounded. Fines with depth, with pebbles of quartzite, sandstone, volcanics, quartz, coal and limestone at the top		

GRADING

Mean for deposit percentages			Depth below surface (m)	percentages						
Fines	Sand	Gravel		Fines	Sand			Gravel		
				-1 ϕ	+1 ϕ - $\frac{1}{2}$	+ $\frac{1}{2}$ -1	+1-4	+4-16	+16-64	+64
7	91	2	1.8-2.8	8	27	57	3	3	2	0
			2.8-3.8	2	19	62	6	6	5	0
			3.8-4.8	5	15	63	5	6	6	0
			4.8-5.8	3	15	79	2	1	0	0
			5.8-6.8	2	11	79	7	1	0	0
			6.8-7.8	1	18	75	5	1	0	0
			7.8-8.8	2	36	53	1	1	0	7
			8.8-9.8	2	28	70	0	0	0	0
			9.8-10.8	2	36	61	1	0	0	0
			10.8-11.8	24	48	28	0	0	0	0
			11.8-12.8	4	40	56	0	0	0	0
			12.8-13.8	4	47	49	0	0	0	0
			13.8-14.8	2	36	62	0	0	0	0
			14.8-16.8	6	35	58	0	1	0	0
			16.8-18.8	6	53	41	0	0	0	0
			18.8-21.8	15	74	11	0	0	0	0
			21.8-25.0	13	69	18	0	0	0	0
			Mean	7	43	47	1	1	1	0

COMPOSITION

Depth below surface (m)	Percentages by weight in +8 mm fraction						
	Quartz	Quartzite	Sandstone	Limestone	Other sediments	Igneous	Chert, flint
1.8-3.8	3	60	17	5	2	9	4
3.8-5.8	2	71	1	Trace	6	18	1
5.8-7.8	6	36	13		2	33	10
8.8-16.8	1	92	Trace	1	Trace	3	3