

## GEOLOGICAL SURVEY OF GREAT BRITAIN

## RECORD OF SHAFT OR BORE FOR MINERALS

Name of Staff or those given by Geological Survey:

# LONDON YORKSHIRE

616

Name and Number given by donor:

# MOTORWAY

**For whom made**

Town or Village..

County

**Exact site**

Attach a tracing from a map, or a sketch-map, if possible.

Purpose for which made.

Ground Level at <sup>shaft</sup><sub>here</sub> relative to O.D.

If not ground level give O.D. of beginning of shaft bore.

**Made by.**

Date of sinking.....1963

Information from for Samples and cover

Date received.....1963

Examined by D. V. Frost C. E. Bradley

## SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only) GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH		
		FT	IN.	FT	IN.	
for samples {	Coal.			5	0	
	hardstone, gray			11	0	
	hardstone, gray, with silty, laminae.			17	6	
	hardstone, 2" " "			18	0	
				20	0	
		Sandstone, pale gray, fine grained with silty, sandstone bands and laminae in top 10'.				
		Becomes weathered below 30'-40'.				
	very silty, laminae and carbonaceous - micaceous partings 4-6-4-8'					
	Becomes weathered below this, and coarser grained.	30	0	50	0	
		Base of hole.				

SK 46NE 70.

4539 6811

RECORD OF BOREHOLE NO. 616 <sup>SK 40 NE</sup> 170






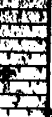

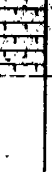

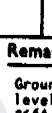


Ground level: 271.0ft. above O.D. Newlyn (25.N.63)

8 in. to 20 ft.

Dia. of boring: NX (2<sup>1</sup>/<sub>8</sub> in. core) to 30ft

Type of boring : Shell and Auger and Rotary Core Drilling

Lining tubes : 4X (5in.) to 20ft.

Daily Progress	Core Recovery or Sample		Change of Strata			Description of Strata
	Depth	Percentage or Type	Legend	Depth	O.D. Level	
				3'6"	267.5	TOPSOIL
	3'6" - 5'0"	U(4) 0				Stiff gray silty CLAY; thin weathered coal seam at 5ft. depth
	8'6" - 10'0"	U(4) 0		10'0"	261.0	
	11'0" - 15'0"	0 00				Gray silty MUDSTONE
	17'6" - 18'0"	0 0				
11.4.63	18'0" - 20'0"	00		20'0"	261.0	
		80%				
	30'0"					
		95%				Generally broken poorly laminated gray medium to fine SANDSTONE, grading in parts to mudstone. Laminations distinct from 47ft. to 48ft.
	40'0"					
		100%				
9.5.63	50'0"			50'0"	221.0	

**Key to type of sample :**

U (4) — 4 in. dia. undisturbed sample.  
 U (1½) — 1½ in. dia. " "  
 D — disturbed sample.  
 BD — bulk disturbed sample.  
 W — water sample.  
 S { } — standard penetration test.  
 C { } — dynamic cone penetration test.

**Remarks : (Observations on ground-water, etc.)**

Ground-water was first encountered at a depth of 6ft. below ground level and a sample was taken. Artesian water was encountered at 26ft. depth.