



GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

LONDON-YORKSHIRE

619

Name and Number given by owner:

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 shaft bore relative to O.D.

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

Made by

Date of sinking 1963

Information from J. C. Samples, Cam

Date received 1963

Examined by D. J. Frost, C. E. Bradley

(For Survey use only)

6-inch Map Registered No.

SK46NE73

Nat. Grid Reference

4517 6897

1" N.S. Map No.

1" O.S. Map No.

Confidential or not

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only) GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
J. C. Samples	limestone, grey brown, silty			5	0
	limestone			6	0
	limestone, dark grey, stamined brown			8	0
	limestone, grey - brown, with silty laminae			12	0
	limestone			17	0
	limestone			19	0
				19	0
	limestone, pale grey, very silty, iron indurated in parts, other parts contain sporadic ironstone nodules.				
	Plant fragments throughout	7	0	26	0
	limestone, grey, iron indurated in parts, rare ironstone nodules elsewhere				
	The rock becomes silty below 36'				
	Very rare plant fragments throughout	16	0	40	0
	limestone, grey, with distinct surfaces	1	0	41	0
	limestone, grey, silty, sandy in parts. Very rough and irregularly bedded.	5	0	46	0
	limestone, dark grey, with distinct				

JS 982293/ JS 65 4m 1/61 XL



Name of Station or Bore given by Geological Survey: LONDON YORKSHIRE		6-inch Map Registered No. SK46NE 73			
MOTORWAY		619.			
GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	3 1/2 surfaces and very rare plant fragments			46	0
	Coal, very inferior.	9	11	63	11
	Seatons mudstone gang, with bituminous surfaces and rootlets, rather soft, but with hard thin calcareous band 3" to 5"	0	1	54	0
	Sandstone gang, fine grained, with carbonaceous micaceous partings. Substone bands and lamellae.	5	0	59	0
	(NB. Duller records mudstone with transition reaches at 68')	11	0	70	0
	Base of hole.			70	0.

2090293/2 PS05 4m 11/61 XL



RECORD OF BOREHOLE NO. 619 SK46NE73

Ground level: 319.1ft. above O.D. Newlyn (25.4.63) 8in. to 19ft.
Dis. of boring: NX (2 1/2 in. core) to 70ft.
Type of boring: Shell and Auger and Rotary Core Drilling Lining cubes: NX (3in.) to 27ft.

Daily Progress	Core Recovery or Samples		Change of Strata			Description of Strata	
	Depth	Percentage or Type	Legend	Depth	O.D. Level		
8.4.63	1'6" - 3'0"	U(a) D		1'0"	319.1	TOPSOIL	314
	3'0"	D		5'0"	318.1	Fine grey-brown silty CLAY with shale fragments	
	5'0"	D					
	5'0"	D					
	6'6" - 8'0"	U(a) D				Weathered dark grey SHALE, coaly in bands	
	8'0"	D					
	12'0"	D		11'0"	308.1		
	12'0"	D				Weathered grey silty SHALE	
	17'0"	D					
	17'0"	D					
16.5.63	19'0"	D		19'0"	300.1		200
	19'0"	D					
		86%					
	26'0"					Ironstained, vertically fissured grey MUDSTONE; weathered to 20ft.; clayey from 26ft. to 29ft.; black from 33ft. to 35ft.; ironstones at 35ft. 7in., and coaly and shaly at 36ft.	
		95%					
	36'0"						
		100%		40'0"	279.1		
	42'0"						
		76%		46'0"	273.1	SEATEARTH	
	46'0"						
		80%		54'0"	265.1	Broken and fissured, grey MUDSTONE, clayey in part	COAL MEASURES
	56'0"			56'0"	263.1	COAL	
		76%		60'0"	259.1	SEATEARTH, with coaly bands, grading to mudstone	
	60'0"						
		55%				Irregularly laminated grey-green fine SANDSTONE; with traces of pyrites on bedding planes and open and incipient vertical fissuring; broken towards base	
	70'0"			70'0"	249.1		
17.5.63							
Key to type of sample :			Remarks : (Observations on ground-water, etc.)				
U (4) — 4 in. dia. undisturbed sample.			No ground-water was encountered during boring.				
U (1½) — 1½ in. dia. " "							
D — disturbed sample. " "							
BD — bulk disturbed sample.							
W — water sample.							
S () — standard penetration test.							
C () — dynamic cone penetration test.							