British Geological Survey

BGS ID: 224175 : BGS Reference: SK46NE71
British National Grid (27700) : 445270,368600

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

(For Survey use only)

6-inch Map Registered No. SK46NE 71

Name of Shaft or Bore given by Geological Survey: LONDON-YORKSHIRE 617

Name and Number given by owner: MOTORWAY

Nat. Grid Reference 4527 6860

1"N.S.Map No.	1"O.S.Map No.	Confidential or not

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 Jor Samples, Core Date received 1963

Examined by D.V. Ivat, C.J. Bradley

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only) Geological Classification	DESCRIPTION OF STRATA	Thickness Ft	Thickness In.	Depth Ft	Depth In.
	Mudstone. grey.			8	0
Jor Samples	Mudstone. grey-brown, with plant fragments.			10	0
	Sandstone. fragments.			13	0
				13	0
	Mudstone, grey, silty, very hard, (core cemented) : top 6" from stained joints, with some mineralisation throughout sporadic small fossil nodules.	9	0	22	0
	Sandstone. grey, medium grained.	0	6	22	6
	Mudstone. grey to dark grey, extremely silty with rare mica flakes and small carbonaceous patches.	11	6	34	0
	Sandstone. grey, fine grained, with carbonaceous - micaceous partings passing down into	2	0	36	0
	Siltstone. grey, with fine grained sandstone bands and carbonaceous plant fragments.	7	6	41	6
	Mudstone. grey, silty (core fragmentary)	0	4	41	10

J598293/1 P385 4m 11/61 XL

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey
BGS ID: 224175 : BGS Reference: SK46NE71
British National Grid (27700) : 445270,368600

Name of Shaft or Bore given by Geological Survey: LONDON-YORKSHIRE MOTORWAY 617

6-inch Map Registered No. SK46NE 71

Geological Classification	Description of Strata	Thickness Ft	Thickness In.	Depth Ft	Depth In.
	B/f.			41	10.
	Sandstone, pale grey to buff, medium grained becoming coarser and conglomeratic at base. Massive with sporadic carbonaceous-micaceous partings, ironstone nodules and small coal fragments throughout. Plant fragments.	2'	8.	44	6.
	Coal.	1	6	46	0.
	Seatearth mudstone, grey, listric surfaces, rootlets, soft.	0	6	46	6.
	Sandstone, grey, fine grained with siltstone bands and lamellae. Carbonaceous ~~[illegible]~~ slightly micaceous partings. Sporadic ironstone nodules.				
	Mudstone, grey, silty, with few cementstone bands.			60	0
	Base of hole.				

DS98293/2 PS85 4m 1/61 XL

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 224175 : BGS Reference: SK46NE71
British National Grid (27700) : 445270,368600

SK46NE 71

4527 6860

RECORD OF BOREHOLE NO. 617

Ground level : 338.0ft. above O.D. Newlyn (25.4.63)

Dia. of boring : NX (2⅛in. core) to 60ft. 8in. to 13ft.

Type of boring : Shell and Auger and Rotary Core Drilling

Lining tubes : NX (5in.) to 13ft.

Daily Progress	Core Recovery or Samples: Depth	Core Recovery or Samples: Percentage or Type	Change of Strata: Legend	Change of Strata: Depth	Change of Strata: O.D. Level	Description of Strata
				1'0"	337.0	TOPSOIL
	1'6" – 3'0"	U(4)				FILL (brown silty clay with some gravel
	3'0"	D		3'0"	335.0	and brick fragments)
	5'0" – 6'6"	U(4)				
	6'0"	D				Weathered black coaly SHALE
11.4.63	10'0"	D		9'0"	329.0	
	10'0"	80				Weathered grey silty SHALE
		C		12'0"	326.0	
16.4.63		50				
		0				
		88%				
	20'0"					
		90%				Weathered, ironstained and vertically fissured grey MUDSTONE; becoming sandy with depth, and with sandstone laminae near base
	30'0"					
		84%				
13.5.63	36'0"			36'3"	301.7	
				39'0"	299.0	Grey sandy MUDSTONE; irregularly laminated for top 3in.; broken by vertical fissuring
		100%				Light grey fine SANDSTONE
	42'0"			41'9"	296.2	
				44'6"	293.5	Light grey medium SANDSTONE with irregular discontinuous coaly laminae; thin (¼in.) coal intercalations at 43ft.6in.
		100%		46'0"	292.0	Occasional pyrite lined vertical fissures. Becoming coarse grained with fine pebbles.
	50'0"					COAL with pyrites, pitchy in parts
						Irregularly laminated light and dark grey muddy fine SANDSTONE. Increasingly muddy from 53ft.
				54'0"	284.0	
		100%				Grey MUDSTONE
14.5.63	60'0"			60'0"	278.0	

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.
No. in brackets gives

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

No ground-water was encountered during boring.

Contact BGS: ngdc@bgs.ac.uk