

GEOLOGICAL SURVEY OF GREAT BRITAIN		(For Survey use only)	
LONDON-YORKSHIRE RECORD OF SHAFT OR BORE FOR MINERALS		6-inch Map Registered No.	
Name of Shaft or Bore given by Geological Survey: <u>London - Yorkshire Motorway</u>		<u>Bl. No. 613A.</u>	
Name and Number given by owner: 		<u>SK46NG 67</u>	
For whom made 		Nat. Grid Reference <u>4536 6712</u>	
Town or Village 	County 	1" N.S. Map No.	1" O.S. Map No.
Exact site 	Attach a tracing from a map, or a sketch- map, if possible.		Confidential or not
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 <u>1963</u>	
Information from <u>Jan Samples. Core.</u>		Date received <u>1963</u>	
Examined by <u>D. J. Frost</u>			

SPECIMEN NUMBERS AND ADDITIONAL NOTES

[illegible]



GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

LONDON-YORKSHIRE

613 B.

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 9/3

Information from for samples at bore

Date received 9/3

Examined by J. Frost, C. G. Bradley

(For Survey use only)

6-inch Map Registered No.

SK46NE 67

Nat. Grid Reference

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.
for samples.	Clay, pale grey, w. brown mottled.			2	0
	Clay, grey, with brown staining			3	6
	limestone grey, with brown staining			6	0
	limestone grey, with silty laminae			8	6
	limestone			10	0
	limestone, pale grey with silty and sandy laminae, brownish staining			0	0
	2 1/2' transition zone at 9' 2" sporadic thin (up to 1/2") coarse below this	12	4	92	4
	Passing down into				
	Sandstone, grey, fine grained, occasional laminar micaceous or sand				
	at 35' 4"				
	limestone and coarse below 25'	7	8	30	5
	limestone grey, with	4	0	34	0
	Sandstone, pale grey, fine grained	6	0	40	0
	coarse conglomerate				
	Base of hole.				

GEOLOGICAL SURVEY OF GREAT BRITAIN
RECORD OF SHAFT OR BORE FOR MINERALS

(For Survey use only)

6-inch Map Registered No.

Name of Staff or Port given by Geological Survey:

LONDON-YORKSHIRE

613 c

SK 46NE 67

Name and Number given by parent: _____

MOTORWAY

Nat. Grid Reference

For whom made

Town or Village.

County.

Exact site

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

1st N.S. M
No.

O.S. Map
No.

**Confidential
or not**

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

Information from

Date received.

Examined by

SPECIMEN NUMBERS AND ADDITIONAL NOTES

[illegible]

Beck & Hale!



4536 6712 RECORD OF BOREHOLE NO. 613A 1

Ground level: 384.6ft. above O.D. Newlyn (28.4.63) 8in. to 6ft.
Dia. of boring: BX (2 1/8 in. core) to 60ft.
Type of boring: Shell and Auger and Rotary Core Drilling
Lining tubes: BX (2 1/8 in.) to 10ft.

Daily Progress	Core Recovery or Samples		Change of Strata			Description of Strata
	Depth	Percentage or Type	Legend	Depth	O.D. Level	
	1'0"	D		1'0"	383.6	TOPSOIL
	2'0"	D		2'0"	382.6	Friable yellow-brown silty CLAY with some sandstone fragments
	2'0" - 5'0"	BD				Weathered yellow-brown fine SANDSTONE
	5'0"	D		5'0"	379.6	
8.4.63	5'0" - 6'0"	BD				
	6'0"					
		45%				Ironstained yellow-gray fine SANDSTONE
	15'0"			15'0"	369.6	
		60%				
	20'0"					
		75%				
23.4.63	28'0"					
		70%				Well bedded, vertically fissured grey MUDSTONE: sandy at top with softer shaly horizons. Core broken. At 24ft. more broken and at 24ft. 9in. plant remains. Sandy from 24ft. to 38ft., thereafter shaly
24.4.63	40'0"					
		100%				
	45'0"					
		80%		49'0"	335.6	
				53'0"	331.6	Black coaly SHALE: vertically fissured; 4in. ironstone at base
25.4.63	55'0"					
		100%				Vertically fissured grey MUDSTONE
26.4.63	60'0"			60'0"	324.6	

Key to type of sample:

U (4) — 4 in. dia. undisturbed sample.
U (1 1/2) — 1 1/2 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.)

No ground-water was encountered during boring.

COAL MEASURES



SK46 NE 67

4536 6712





RECORD OF BOREHOLE NO. 0135.

Ground level: 342.3 ft. above O.D. Newlyn (24.4.63)

Dia. of boring: 8 in. to 10 ft. BX (1 1/8 in. core) to 40 ft.

Type of boring: Shell and Auger and Rotary Core Drilling

Lining tubes: 8 in. and BX (2 1/8 in. to 10 ft)

Daily Progress	Core Recovery or Samples		Change of Strata			Description of Strata
	Depth	Percentage or Type	Legend	Depth	O.D. Level	
9.8.63.				1'0"	341.3	TOPSOIL
	2'0"	D				Mottled grey and brown silty CLAY
	3'6"	D				
	6'0"	D				
	8'6"	D		8'0"	334.3	
	10'0"			10'0"	332.3	Weathered grey and brown silty SHALE
	12'0"	100%				Grey shaly MUDSTONE; rusty weathered at top, grading to shale at base
		60%		18'0"	324.3	
	19'0"			18'9"	323.5	
	21'0"	100%		21'0"	321.3	
9.5.63.		80%				Poorly cross laminated grey medium to fine sandstone; some steep ironstained fissures
	25'0"	70%				
	30'0"			30'0"	312.3	
		60%				
10.5.63.				39'0"	303.3	Grey shaly MUDSTONE
	40'0"			40'0"	302.3	

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
No. of blows/12 in. penetration

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

No ground-water was encountered during boring.

COAL MEASURES



SK46NE 67 H536 6712

~~SK46NE 67~~
RECORD OF BOREHOLE NO. 613C

Ground level : 498.8ft. above O.D. Newlyn (26.7.63)

Dis. of boring : NX (2 1/2 in. core.)

Type of boring : Rotary Core Drilling

Lining tubes : NX (3 in.) to 20ft.

Daily Progress	Core Recovery or Samples		Change of Strata			Description of Strata
	Depth	Percentage or Type	Legend	Depth	O.D. Level	
	0'0"	Non coring		4'0"	404.8	
	10'0"	42%				Strongly weathered grey and brown MUDSTONE and fine SANDSTONE
	20'0"	100%		20'0"	388.8	
	30'0"	60%				Well bedded, fissured friable grey MUDSTONE clayey from 28ft. to 30ft.; 39ft. to 40ft.
	40'0"	50%		41'0"	367.8	
	50'0"	60%		47'0"	361.8	Coaly SHALE. Core broken
	60'0"	60%				Well bedded, laminated, ironstained, vertically fissured, grey-green MUDSTONE; broken at top with ironstones; becoming increasingly sandy towards base
30.4.63.	60'0"			60'0"	348.8	
		100%				Laminated, ironstained vertically fissured grey sandy MUDSTONE
1.5.63.	70'0"			70'0"	338.8	
<div>Key to type of sample : U (4) — 4 in. dia. undisturbed sample. U (1 1/2) — 1 1/2 in. dia. " " D — disturbed sample. " BD — bulk disturbed sample. W — water sample. (S) — standard penetration test. (C) — dynamic cone penetration.</div> <div>Remarks : (Observations on ground-water, etc.)</div>						

COAL MEASURES