



RECORD OF BOREHOLE NO. 561A

Ground level: 420.3ft. above O.D. Newlyn (N. 7.63)

Dia. of boring: 6in. to 5ft.
NX (26in. core) to 70ft.

Type of boring: Post-hole Auger and
Rotary Core Drilling

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

Daily Program	Core Recovery or Samples		Change of Strata			Description of Strata
	Depth	Percent age or Type	Legend	Depth	O.D. Level	
	1'6" - 3'0"	U(4) D		1'0"	419.3	SK45NW 225 4498 5707 TOPSOIL
29.4.63	3'0" - 5'0"	D		5'0"	415.3	Stiff mottled grey and brown silty CLAY, with mudstone fragments
	10'0"	50%		9'9"	410.5	Weathered pale green-grey MUDSTONE
				10'4"	410.0	Bright COAL
				11'0"	409.3	Pale green-grey SEATEARTH, abundant plant remains, core broken
		50%		15'0"	405.3	Ironstained incipient vertical fissured irregularly laminated grey fine SANDSTONE; partly ironstained bedding planes
	20'0"			20'0"	400.3	Weathered, ironstained low angled fissured grey MUDSTONE, increasingly more broken with depth
30.4.63	30'0"	90%		27'0"	approx. 393.3	Irregularly laminated, false bedded, pale greenish-brown fine SANDSTONE with near vertical ironstained fissuring; 22ft. 6in. to 23ft. 6in. slightly coarser, muddy thereafter
	40'0"	80%				Broken, ironstained, fissured grey MUDSTONE with ironstones, bedding planes part ironstained; 34ft. to 40ft. laminated and clayey; 45ft. to 48ft. massive and laminated; broken with ironstones towards base
	50'0"	85%		49'10"	370.5	
				49'6"	369.8	Pitchy COAL with pyrites
				50'9"	369.5	Coaly SHALE
		95%				Vertically fissured dark greenish-grey SEATEARTH; 6in. coaly clay at top; more soapy at 54ft. with ironstone
				57'0"	363.3	
				58'0"	362.3	Green-grey sandy MUDSTONE with plant remains
1.5.63	60'0"			59'6"	360.8	Dull COAL
						Green-grey SEATEARTH with almost vertical fissures, soapy at top, grading in depth to mudstone
		97%		64'0"	approx. 356.3	
2.5.63	70'0"			70'0"	350.3	Grey MUDSTONE; ironstone at 67ft. and few plant remains

COAL MEASURES



SK45NW1
RECORD OF BOREHOLE NO. F561B/1

Ground level: 385.7 ft. above O.D. Newlyn (4.7.69.)

Dia. of boring: 8 in.

Type of boring: Shell and Auger

Lining tubes: Nil.

Daily Progress	Core Recovery or Samples		Change of Strata			Description of Strata
	Depth	Percentage or Type	Legend	Depth	O.D. Level	
2.5.69.	2'0"	D		1'6"	382.2	TOPSOIL
				6'0"	377.7	Firm mottled grey and brown sandy silty CLAY
	8'0"	D		10'0"	373.7	Stiff mottled grey and brown silty CLAY
	11'0"	D		15'0"	370.7	Weathered grey SHALE
	13'6"	D		18'0"	369.7	Stiff mottled grey and brown silty CLAY with shale fragments
				16'0"	367.7	COAL
						COAL MEASURES
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. No. in brackets gives No. of blows/12 in. penetration.			Remarks: (Observations on ground-water, etc.) Ground-water was first encountered at a depth of 6 ft. below ground level. Sample of ground-water taken.			
MINISTRY OF TRANSPORT LONDON-YORKSHIRE MOTORWAY TROWELL TO BARLBOROUGH SECTION						Soils No : 9/3847 FIG. 171

GEORGE WIMPEY & CO., LTD.

CENTRAL LABORATORY

HAYES



RECORD OF BOREHOLE NO. P561B/□

Ground level : 385.7ft. above O.D. Kealyn (N.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 Sample		Change of Strata			Description of Strata
	Depth	Per cent age or Type	Legend	Depth	O.D. Level	
	0'0"					
		Non Coring		10'0"	375.7	
	12'0"			13'6"	376.2	Weathered and ironstained grey SHALE, becoming dark grey towards base
				16'0"	363.7	COAL
		90%		22'0"	361.7	Grey shaly SEATEARTH, grading to mudstone
	24'0"			25'9"	359.9	Broken grey MUDSTONE, sandy laminae at base
		75%		33'0"	350.7	Grey medium to fine SANDSTONE, partly laminated, becoming argillaceous with depth
	36'0"			36'0"	342.7	Grey shaly MUDSTONE
	40'0"	25%		41'0"	342.7	Dark grey SHALE with occasional ironstones; mussels at 36ft.3in.
		80%				Grey MUDSTONE with numerous plant remains, becoming massive from 42ft.6in. with sparse plant remains
3.5.63	50'0"			50'0"	339.7	

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.
No. in brackets gives
No. of blows/12 in. penetration.

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

MINISTRY OF TRANSPORT
LONDON-YORKSHIRE MOTORWAY
TROWELL TO BARLBOROUGH SECTION

Soils No :
8/3847
FIG. 172

GEORGE WIMPEY & CO., LTD.

CENTRAL LABORATORY

HAYES



GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

561A

Name and Number given by owner:

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

Information from

Date received

Examined by

(For Survey use only)

6-inch Map Registered No.

45NW
SK45NW 225

Nat. Grid Reference

4498 5707

1" N.S. Map
No.

1" O.S. Map
No.

Confidential
or not

(For Survey use only)
GEOLOGICAL
CLASSIFICATION

DESCRIPTION OF STRATA

THICKNESS

FT

IN.

DEPTH

FT

IN.

5 0

Mudstone, grey, very weathered, with
transverse nodules.

50% of core missing.

4

9

9

9

Coal.

0

3

10

0

Mudstone, grey, soft, friable,
irregularly bedded.

1

0

11

0

Sandstone, pale grey - buff, fine
grained, with carbonaceous - micaceous
partings. Rusty staining on cracks
and joints. Abundant plant fragments.

1

6

12

6

Mudstone, grey, brown in parts. Soft,
broken.

0

6

13

0

Fragmentary of Sandstone, silty, mudstone
and transverse (core fragmentary)

7

0

20

0

Sandstone, grey - buff, fine grained,
with carbonaceous micaceous partings
and wavy current bedding.

Mudstone, grey, silty, rather micaceous
Rusty staining on joints and bedding
planes. Sparingly transverse bands.

Core fragmentary

10

0

30

0

Mudstone, grey, silty, with pale grey
siltstone laminae

17

0

47

0

Mudstone, grey, with 2" transverse
band at 48" 6"

2

10

49

10

Coal.

0

8

50

6

Siltstone, mudstone, grey, with lentic
surfaces and rootlets.

0

6

51

0

Siltstone, siltstone, grey, with
bands of lentic mudstone. Very
hard in parts. Rootlets and
transverse nodules throughout.

6

0

57

0

Coal.

1

6

58

6

Mudstone, grey, silty. Iron indurated
in parts. Transverse nodules.

6

6

65

0

Mudstone, grey, broken.

0

6

65

6

0502293/ 1505 4m 1/61XL

0502293/ 1505 4m 1/61XL

RS98293/2 PS85 4m 11/61XL

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

Name of Smart or Book given by Catalogue Bureau: London - Yorkshire Motoway. Bk. No 561B

Name and Number given by owner:

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.

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 2 or Samples

Date received 1963

Examined by D. V. Frost

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:

P5618

6-inch Map Registered No.

SK45NW 225

Name and Number given by owner:

Nat. Grid Reference

For whom made

Town or Village

County

Exact site

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

1" N.S. Map
No.

1" 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 1963

Information from Com.

Date received 1963

Examined by D. J. Frost

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only) GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
				10	0
	Hardstone, grey, silty, with transverse	2	0	12	0
	Hardstone, grey, and pale grey, bituminous				
	(i.e. grey mudstone fragments - a pale				
	grey mudstone matrix. Typical Dunell Roof	1	11	13	
	Coal	1	9	15	0
	Sectioned mudstone, brownish, bituminous, with				
	nodules, becomes darker & pale.	3	4	19	0
	Mudstone, grey, bituminous with carbonaceous				
	material.	3	0	22	0
	Siltstone, pale grey, with carbonaceous fragments	2	0	24	0
	Sandstone, pale grey, fine grained, well-sorted,				
	with carbonaceous - micaceous, and				
	silty mudstone pebbles 1" - 1 1/2" - 1 3/4"	3	0	27	0
	Hardstone, grey, silty, with siltstone bands	1	6	28	0
	Siltstone, grey, with sandy bands and laminae	5	6	34	0
	Hardstone, grey, silty	2	0	36	0
	Hardstone, grey, with transverse	0	6	36	0
	Hardstone, dark grey, silty at top, becoming				
	black, carbonaceous to base.				
	Transverse sandstone fragments	2 1/4	0	38 1/4	0

2030223/1 2505 4m 1/161 XL

Name of Shaft or Bore given by Geological Survey:

P561B

6-inch Map
Registered
No.

SE 45 NW 225

[illegible]

DS98293/2 P505 4m 11/61XL