



4518 5643 SK 45 NE 194 A  
SK45NE 99A  
RECORD OF BOREHOLE NO. 5587  
Ground level: 429.1ft. above O.D. Newlyn (3.4.63) 3in. to 8ft. 6in.  
Dia. of boring: NX (2gin. core) to 8ft. 6in.  
Type of boring: Shell and Auger and Rotary Core Drilling Lining tubes: NX (3in.) to 8ft. 6in.

| Daily Progress  | Core Recovery or Samples |                     | Change of Strata  |         | Description of Strata  |
|---|--------------------------|---------------------|---|---------|--|
|   | Depth                    | Percent age or type | Legend  | Depth   |  |
|   |                          |                     |   | 1' 6"   | #20.1  |
|   | 2' 6" - 3' 0"            | 1' (A)              |   |         | TOPSOIL  |
|   | 4' 0"                    | 0                   |   |         | Firm to stiff mottled grey and brown silty CLAY with shale fragments   |
|   | 4' 6"                    | 80                  |   | 5' 0"   | 424.1  |
|   | 5' 0"                    | 0                   |   |         | Weathered mottled grey and brown clayey SHALE  |
|   | 5' 6"                    | 80                  |   | 6' 6"   | 420.5  |
| 6.3.63  | 6' 0"                    | 0                   |   |         | Broken weathered and ironstained grey MUDSTONE; clayey towards base  |
|   | 6' 6"                    | 0                   |   |         |  |
|   | 11' 6"                   | 23%                 |   | 13' 8"  | 415.8  |
|   |                          |                     |   | 14' 2"  | 415.3  |
|   |                          |                     |   | 14' 7"  | 415.0  |
|   |                          |                     |   | 15' 2"  | 415.6  |
|   |                          | 100%                |   |         | COAL; silty and bright   |
|   |                          |                     |   |         | Gray shaly SEATEARTH   |
|   |                          |                     |   |         | Hard cream CLAY with plant remains   |
| 18.4.63   | 20' 0"                   |                     |   | 20' 10" | 400.1  |
|   |                          |                     |   |         | Steeple fissured ironstained pale grey fine SANDSTONE; muddy towards base  |
|   | 25' 0"                   | 07%                 |   | 25' 0"  | 404.1  |
|   |                          |                     |   |         | Grey MUDSTONE; occasional vertical fissuring; sandy at top and laminated with sandstone from 22ft.   |
|   | 25' 0"                   | 05%                 |   |         |  |
|   |                          |                     |   |         | Ironstained vertically fissured pale grey fine SANDSTONE; occasional argillaceous laminae at top   |
|   | 33' 0"                   | 69%                 |   | 34' 6"  | 398.6  |
|   |                          |                     |   |         |  |
|   |                          | 100%                |   |         | Gray MUDSTONE; massive and sandy to 46ft. 6in.; from 52ft. 6in. slightly sandy and laminated to 58ft.; occasional ironstone  |
| 19.4.63   | 51' 0"                   |                     |   | 56' 0"  | 371.3  |
|   |                          |                     |   |         | COAL; becoming shaly towards base  |
|   |                          | 100%                |   | 56' 0"  | 369.3  |
|   |                          |                     |   | 60' 0"  | 365.3  |
|   |                          |                     |   | 61' 2"  | 364.4  |
|   |                          |                     |   | 62' 0"  | 365.1  |
|   | 58' 0"                   |                     |   |         | Gray shaly SEATEARTH, grading to mudstone  |
|   |                          |                     |   |         |  |
|   |                          | 100%                |   |         | Vertically fissured grey MUDSTONE; becoming shaly from 64ft. and sandy from 65ft. 6in. to 66ft. 6in.; from 78ft. dark grey with plant remains and from 72ft. lighter grey with ironstone at base |
|   | 74' 0"                   |                     |   |         |  |
|   |                          | 100%                |   | 80' 0"  | 349.1  |
| 20.4.63   | 80' 0"                   |                     |   |         |  |
|   |                          |                     |   |         |  |
| Key to type of sample:<br>U (4) — 4 in. dia. undisturbed sample.<br>U (1 1/2) — 1 1/2 in. dia. " "<br>D — disturbed sample.<br>BD — bulk disturbed sample.<br>W — water sample.<br>As ( ) — standard penetration test.<br>C ( ) — dynamic cone penetration test.<br>No. in brackets gives<br>No. of blows/12 in. penetration. |                          |                     | Remarks: (Observations on ground-water, etc.)<br>Ground-water was first encountered at depth of 8ft. below ground level.<br>Sample of ground-water taken. |         |  |
| MINISTRY OF TRANSPORT<br>LONDON-YORKSHIRE MOTORWAY  |                          |                     |   |         | Soils No:<br>5/3587  |



|   |  |  |                 |
|---|--|--|-----------------|
| GEOLOGICAL SURVEY OF GREAT BRITAIN                |  | (For Survey use only)                                    |                 |
| RECORD OF SHAFT OR BORE FOR MINERALS              |  | 6-inch Map Registered No.                                |                 |
| Name of Shaft or Bore given by Geological Survey: |  | SK45NE 99 A  |                 |
| Name and Number given by owner:                   |  | Nat. Grid Reference                                      |                 |
| For whom made                                     |  | 4518 5643  |                 |
| 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  |                 |
| Information from                                  |  | Date received  |                 |
| Examined by                                       |  |  |                 |

SPECIMEN NUMBERS AND ADDITIONAL NOTES

| (For Survey use only)<br>GEOLOGICAL<br>CLASSIFICATION | DESCRIPTION OF STRATA  | THICKNESS |     | DEPTH |     |
|---|--|-----------|-----|-------|-----|
|   |  | FT        | IN. | FT    | IN. |
|   |  |           |     |       |     |
|   |  |           |     |       |     |
|   |  |           |     |       |     |
|   |  |           |     |       |     |
|   |  |           |     | 8     | 6   |
|   | Mudstone, grey, weathered buff - top 2'  | 5         | 0   | 13    | 6   |
|   | Coal   | 0         | 2   | 13    | 8   |
|   | Sandstone, grey, fine grained, micaceous   | 1         | 0   | 14    | 8   |
|   | with plant fragments   | 5         | 1   | 19    | 2   |
|   | Mudstone, grey, silty  |           |     |       |     |
|   | Siltstone laminae abundant 2' 6" - 22' 6"  |           |     |       |     |
|   | sporadic below   |           |     |       |     |
|   | Sporadic plant fragments throughout  | 5         | 3   | 25    | 0   |
|   | Sandstone, grey, coarse, brown - parts fine grained                                  |           |     |       |     |
|   | vertical joints with rusty (limonite) staining                                       |           |     |       |     |
|   | Sporadic plant fragments and carbonaceous matter throughout                          | 19        | 6   | 44    | 6   |
|   | Mudstone, grey, silty, with sporadic siltstone laminae. Sporadic fossiliferous bands |           |     |       |     |
|   | Black, very carbonaceous band 5" b 54'   |           |     |       |     |

20302293/1 2035 4m 11/61 XL



Name of Shaft or Bore given by Geological Survey:

558.

6-inch Map  
Registered  
No.

SK45NE 99A

| GEOLOGICAL<br>CLASSIFICATION | DESCRIPTION OF STRATA                     | THICKNESS |     | DEPTH |     |
|------------------------------|---|-----------|-----|-------|-----|
|                              |   | FT        | IN. | FT    | IN. |
|                              | Brought from surface                      |           |     | 44    | 6   |
|                              | Less silty, coarse sandstone in basal 18" | 12        | 3   | 56    | 2   |
|                              | Coal. Shells, log no seen above,          | 3         | 0   | 59    | 2   |
|                              | Sandstone, massive, grey, lentic.         | 1         | 0   | 60    | 2   |
|                              | Coal, inferior                            | 0         | 9   | 61    | 6   |
|                              | Sandstone, massive, grey, lentic          | 2         | 6   | 64    | 0   |
|                              | with sandstone nodules                    |           |     |       |     |
|                              | massive, grey, silty, with sandstone      | 1         | 0   | 65    | 0   |
|                              | nodules and plant fragments               | 0         | 6   | 65    | 6   |
|                              | hardstone, dark grey, silty               |           |     |       |     |
|                              | hardstone, grey, silty, with              | 1         | 6   | 67    | 0   |
|                              | sporadic plant fragments                  |           |     |       |     |
|                              | hardstone, grey, soft in parts.           |           |     |       |     |
|                              | Rare plant fragments.                     |           |     |       |     |
|                              | Sporadic lentic surfaces                  |           |     |       |     |
|                              | lenses at 73'                             | 7         | 0   | 74    | 0   |
|                              | hardstone, dark grey - black, fossil.     |           |     |       |     |
|                              | Sporadic sandstone bands                  |           |     |       |     |
|                              | Rare well preserved plant fragments       |           |     |       |     |
|                              | ? fossil at 74'6"                         |           |     |       |     |
|                              | ? fish tooth 75'0"                        | 3         | 0   | 77    | 0   |
|                              | hardstone, greenish grey, very            |           |     |       |     |
|                              | silty, with sandstone nodules and         | 3         | 0   | 80    | 0   |
|                              | abundant plant fragments                  |           |     |       |     |
|                              | Base of coal.                             |           |     |       |     |

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