



SK45NE101  
4509 5682  
RECORD OF BOREHOLE NO. P560

Ground level: 433.8ft. above O.D. Newlyn (N.T. 431)

Dia. of boring: 3in. to 7ft. 3in.

NX (26in. core) to 107ft.

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

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

SK45NE101

| Daily Progress                                     | Core Recovery or Samples |                    | Change of Strata  |       |   | Description of Strata   |
|--|--------------------------|--------------------|---|-------|---|---|
|  | Depth                    | Percentage or type | Legend  | Depth | O.D. Level  |   |
| 22.4.63  | 7'5" - 8'0"              | U(4) D             |   | 1'5"  | 432.8   | TOP SOIL  |
|  | 8'0" - 8'10"             | D                  |   | 2'0"  | 430.8   | Stiff dark grey silty CLAY with fragments of coal   |
|  | 8'10" - 8'3"             | D                  |   | 2'10" | 429.0   | Weathered COAL  |
|  | 8'3" - 8'8"              | D                  |   | 7'3"  | 426.5   | Stiff light grey silty CLAY with traces of coal dust  |
|  | 8'8" - 12'0"             | Non Coring         |   |       |   |   |
| 26.4.63  | 12'0" - 13'4"            | 38%                |   |       |   | Strongly weathered MUDSTONE and SANDSTONE   |
|  | 13'4" - 20'0"            | 100%               |   | 13'6" | 420.3   |   |
|  | 20'0" - 26'4"            | 100%               |   | 20'3" | 419.5   | Grey medium to fine micaceous SANDSTONE, generally massive. Ironstained on fissures and bedding planes                                    |
|  | 26'4" - 30'0"            | 60%                |   |       |   | Grey and grey-brown MUDSTONE  |
|  | 30'0" - 33'0"            |                    |   | 30'0" | 413.8   | Dark grey soapy, SHALE with thin streaks of coal  |
| 27.4.63  | 33'0" - 40'0"            | 33%                |   | 33'0" | 395.8   | Grey shaly SPATFARTH, with 3in. sandstone at top, grading to grey sandy mudstone with plant remains                                       |
|  | 40'0" - 50'0"            |                    |   | 40'3" | 393.4   | Grey-brown fine SANDSTONE, laminated at top, ironstained on fissures  |
|  | 50'0" - 60'0"            | 100%               |   |       |   | Grey MUDSTONE, sandy at top, ironstained on fissures, core generally broken. Laminated with sandstone from 50ft. to 58ft., 62ft. to 64ft. |
|  | 60'0" - 67'0"            | 95%                |   | 66'0" | 367.8   | Grey and dark grey shaly MUDSTONE and SHALE   |
|  | 67'0" - 70'0"            |                    |   | 67'0" | 365.8   | COAL  |
| 29.4.63  | 70'0" - 80'0"            | 50%                |   |       |   | Dark grey SHALE, soapy in parts, with numerous plant remains  |
|  | 80'0" - 90'0"            | 75%                |   | 80'0" | 353.0   |   |
|  | 90'0" - 94'0"            |                    |   | 90'0" | 343.8   | Grey and grey-brown SHALE and MUDSTONE  |
|  | 94'0" - 97'0"            | 100%               |   | 94'0" | 339.8   | Grey SHALE, nodular in part, with 3in. grey-green clay shale at base  |
|  | 97'0" - 107'0"           | 75%                |   | 97'0" | 338.0   | Pale grey medium SANDSTONE, with irregular coal laminae   |
| 107'0" - 107'0"                                    |                          |                    | 107'0"  | 326.8 | Grey and grey-green MUDSTONE, massive and sandy from 95ft. 7in. to 95ft., 100ft. 6in. to 102ft. 6in., broken and greenish 96ft. to 97ft., from 97ft. to 107ft. grey |   |
| COAL MEASURES                                      |                          |                    |   |       |   |   |
| 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. Wash water return lost at 17ft. depth. |       |   |   |
| U (12) — 12 in. dia. undisturbed sample.           |                          |                    |   |       |   |   |
| 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.                   |                          |                    |   |       |   |   |
| MINISTRY OF TRANSPORT<br>LONDON-YORKSHIRE MOTORWAY |                          |                    |   |       |   |   |
| Soils No:<br>S/3547                                |                          |                    |   |       |   |   |



Name and Number given by owner:

Nat. Grid Reference

4509 5682

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.

Confidence or No

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    |
|   |   |           |     | 8     |
|   | Clay, pale grey, with brown staining. Sandstone fragments near base.  | 1         | 3   | 9     |
|   | Sandstone, grey, fine grained, with carbonaceous micaceous partings and current bedding in parts. Near vertical joints have rusty staining. |           |     |       |
|   | Very rare plant fragments throughout.   | 11        | 1   | 20    |
|   | Mudstone, grey, with sandstone bands up to 2" thick.  | 9         | 8   | 30    |
|   | Mudstone, dark grey, coarsely, loosely bedded, with coal fragments and seams.   | 0         | 9   | 30    |
|   | Sandstone, grey, fine grained. Numerous plant fragments.  | 4         | 0   | 31    |
|   | Siltstone, grey with very abundant plant fragments.   | 0         | 11  | 32    |
|   | Sandstone, grey, fine grained. Rare carbonaceous micaceous partings. Vertical jointing with trace mineralisation.                           |           |     |       |
|   | 38-39'  |           |     |       |
|   | Many plants in top 6", none below.  | 8         | 2   | 40    |

20598293/1 PS85 4m 11/81 XL

Name of Shaft or Bore given by Geological Survey:

P560

6-inch Map  
Registered  
No.

SK45NE 101

| GEOLOGICAL<br>CLASSIFICATION | DESCRIPTION OF STRATA   | THICKNESS |     | DEPTH |     |
|------------------------------|---|-----------|-----|-------|-----|
|                              |   | FT        | IN. | FT    | IN. |
|                              | Brought forward   |           |     | 40    | 2   |
|                              | Passing down into.  |           |     |       |     |
|                              | Mudstone. grey, silty, micaceous.   | 6         | 10  | 47    | 0   |
|                              | Mudstone. grey, silty in parts.   | 3         | 0   | 50    | 0   |
|                              | Sandstone. grey, fine grained,<br>micaceous. Current bedded, weathering                                     | 3         | 9   | 53    | 2   |
|                              | Mudstone. grey, silty, hard.  | 0         | 3   | 54    | 0   |
|                              | Siltstone. grey, micaceous.   | 1         | 6   | 55    | 6   |
|                              | Mudstone. grey, silty, with siltstone<br>bands containing finely comminuted<br>plant remains (2' - 6').     | 10        | 6   | 66    | 0   |
|                              | Mudstone. grey  | 1         | 0   | 67    | 0   |
|                              | Coal.   | 3         | 0   | 70    | 0   |
|                              | Siltstone. grey, silty,<br>irregularly bedded, rather crumbly.<br>Abundant rootlets and plant<br>fragments. | 2         | 0   | 72    | 0   |
|                              | Siltstone. grey, silty, slightly<br>micaceous. with transition bands<br>and nodules.                        | 13        | 0   | 85    | 0   |
|                              | Mudstone. grey, silty, with<br>sporadic plant remains.  | 8         | 6   | 93    | 6   |
|                              | Sandstone. grey, medium grained.<br>Abundant plant fragments, rootlets,<br>and coal scales.                 | 1         | 0   | 94    | 6   |
|                              | Mudstone. grey, slightly silty,<br>with abundant plant fragments.   | 7         | 0   | 101   | 0   |
|                              | Sandstone. pale grey, fine grained.   | 0         | 6   | 101   | 6   |
|                              | Passing down into   |           |     |       |     |
|                              | Siltstone. grey, with bands of<br>very silty mudstone.  | 5         | 6   | 107   | 0   |
|                              | Base of Hole  |           |     |       |     |

20598293/2 P560 4m 11/61 XL