



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

Name of Shaft or Bore given by Geological Survey:

DEEPDALE FARM NCB Bore 1964

Name and Number given by owner:

For whom made NCB Fieldlands No 1 Area

Town or Village SUTTON CURT DUCKINGTON County Derbyshire

Exact site 600 yds S44°E from Deepdale Farm on bank of River Soar (Attach a tracing from a map, or a sketch-map, if possible.)

Purpose for which made To prove coals on Clavre Dean.

Ground Level at shaft relative to O.D. 2248.84 If not ground level give O.D. of beginning of shaft

Made by NCB Co.

Date of sinking February 1964

Information from

Date received

Examined by C. S. P. L. L. L.

(For Survey use only)

6-inch Map Registered No.

SK 46NE/1

112/298

Duty 26SW

Nat. Grid Reference

SK 46002 68380

1" N.S. Map No.

112

1" O.S. Map No.

Confidential or not

GN 2003-2024 SPECIMEN NUMBERS AND ADDITIONAL NOTES

The original hole was drilled conventionally with diamond rods and had very poor recovery of the superficial deposits. A second hole was then put down a few feet away and dry-cored, producing a reasonable recovery at this level.

Sited on SK 46NE

(For Survey use only) GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
DRIFT	In dry cored hole:— Soil, dark brown, with grass growing in the top: passing down to subsoil. Total recovery 8"	2	—	2	—
	Clay, brown, appears structureless. 1/2 hr Clay, mottled, often silty, often with abundant fragments of Sandstone, mudstone, iron impregnated silt, and red shale. Recovery of Clay limited: it suggests that the clay is thin and at top. With much grey bands 17-20 and below. The grey fragments are angular and go to about 1 1/2" in diameter. Mud of the core is wet.	20	4	24	10
UPPER CARBONIFEROUS WESTPHALIAN B	Mudstone, mud grey, crumbled and friable	1	2	26	—
	COAL, only traces recovered	5	—	26	5
	Mudstone, crumbled grey				
	In diamond cored hole:— Broken silt, total recovery about 3 ft: mainly silty mudstone with ironstones. Compact silt, with plant debris at base. (With fact item in dry cored hole is Sandstone light grey, very fine grained, very thin bedded, also crumbled or crumbled. Parting slightly micaceous, dark at top, grey below.)	11	7	38	—
		5	10 1/2	43	10 1/2

Name of Shaft or Bore given by Geological Survey:

DEEPDALE FARM NCB Bore 1964

6-inch Map  
Registered  
No.

SK46NE  
Duby 268W

SK 46 NE 1

112/298

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
WESTPHALIAN B	Brought forward			43	10 1/2
	Mudstone mid grey silty, laminated with siltstone: plant debris	5		44	3 1/2
	Mudstone very dark grey, sandy COAL, fully recovered	1 1/2		44	5
	Mudstone dark grey	5 1/2		44	10 1/2
	Mudstone dark grey	3 1/2		45	2
	Mudstone washed grey, silty, rooty, less silty at top: becomes more compact downward.	1	4	46	6
	Broken core: Mudstone grey silty, rooty, but less silty down: much sphaero- siderite 49-51.	9	6	56	—
	Mudstone grey silty, with plant debris, often laminated. At the top it is suggestive of roots, remains of siltstone	1	—	57	—
	Mudstone grey, rather silty, softer down, with plant debris at the top. Trace debris in the lower part: this also may be of plant origin.	2	—	59	—
	Mudstone mainly about mid grey to rather dark grey, but with some- what paler bands: some of these bands are rather silty. Bone stones scattered through the bed. Above a 7" carbonated bed at 64f. there are many Graptolites: the size of them suggests derivation from fresh or soft ends. They are not very below the 7" bed. Organic traces at about 73f.				
	Tornaculum appears at 84 1/2 and is abundant at about 90f. A cast suggestive of an ill preserved Chelonic at 89f. Fish and undetermined debris at 91 1/3.	33	—	92	—
	Mudstone grey, rather silty and silty, with bedding marked by brings at some levels.	1	3	93	3
	Mudstone grey silty, with compact bands, comminuted, often carbonised plant debris.	5	—	98	3
	Mudstone dark grey shaly, rather silty at base. A band of mudstone at the top with 'worm tubes'.		5	98	8
HAUGHTON M.B.	Mudstone, black, with coal streaks and a single bed of coal 2" thick.	2	1	100	9
	Mudstone brown, lignitic, rooty	2	9	103	6
	Mudstone brown, lignitic, rooty, but rather silty		8	104	2
	Mudstone brownish grey, silty, rooty, with abundant sphaeroidals. Few lenticles surface.				
		1	5	105	7

No reaction with  
Acid.

25-90293/2 MS05 4m 11/6/21

Name of Shaft or Bore given by Geological Survey:

DEEPDALE FARM NCB BOR, 1964

6-inch Map

Registered

No. SK46NE

268268W

SK 46 NE/1

12/298

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
WESTPHALIAN B	Brought forward	7		105	7
	Mudstone grey rather silty, with layers and cross laminated lenses of siltstone. Also with prominent coralline nodules. Scattered roots. Siltstone beds rather disturbed. Below 108 ft tends to mud grey with traces only of roots.	4	-	109	7
	Siltstone, brown, rather compact, possibly with a top of fragmentary clay rock in the top limb. No bitumens seen.	2	5	112	-
	Mudstone grey rather silty, varying to mud grey at the top, with wisps of siltstone. Long nodules of ironstone. Rather softer & wispy below 115. Roots frequent throughout.	5	9	117	9
	Mudstone grey silty, with laminae of siltstone, passing down into a siltstone with coralline cross laminated lenses. Small ironstone nodules at top. Roots present above the passing.	1	1	118	10
	Mudstone grey, rather silty, at the top. In the middle, and also at base, very bands.	4	3	123	1
	Coal, about 6" recovered.		7	123	8
	Seal coal, no recovery.		1	123	9
	Sandstone, light grey, fine grained, all probably thin bedded. Kidding obvious at top and rather disturbed below. May have been originally coral.	2	9	126	6
	Mudstone grey silty and rather silty, with laminae and cross laminated lenses of siltstone. These are rather even. Very scattered plant debris.	5	-	131	6
	Mudstone grey silty, relatively un-laminated, with plant debris.		9	132	3
	Mudstone compact, with frequent wavy layers and plant debris. Very micaceous. At about 140 becomes softer. Scattered nodules, and a layer of oblique debris 141-141 1/2. Below this the rock becomes darker downwards, passing at about 146 into black shaly mudstone with scattered fish and plant debris.	15	11 1/2	148	2 1/2
	Ironstone		1 1/2	148	4
	COAL, 100% recovery		6	148	10
	Seal coal, soft.		3	149	1
	Mudstone grey silty, waxy, very shaly at the base, where a band of siltstone shows "shag structures"	3	2	152	3

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SK 46 NE/1

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Name of Shaft or Bore given by Geological Survey:

DEEPDALE FARM NCB Bore, 1964

6-inch Map

Registered

No. SK 46NE

Derby 268W

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
WESTPHALIAN B	Brought forward			152	3
	Similar mudstone, but softer; bands of siltstone often disturbed, the upper ones <del>thinner</del> . Rooty at top.	3	8	155	11
	Sandstone light grey, silty, with wedges of bedding. Scattered roots	2	7	158	6
	Mudstone grey silty, with bands of siltstone. Much plant debris associated with these.	5	—	163	6
	Sandstone whitish, fine grained, probably thin and cross bedded, with lenses and wedges.	3	6	167	—
	Mudstone grey silty, with edges laminated lenses of siltstone at the top.	3	—	170	—
	Mudstone grey micaceous; no fossils seen above 176. Plant debris filling.	7	6	177	6
	Mudstone grey (but less pale), less micaceous, passing to about mid grey below 181. Some stone bands below 181. Very scattered plant debris.	7	—	184	6
	Mudstone mid grey to rather dark, shaly, with scattered <sup>from 181/6</sup> siltstone bands. Gritlike muds and scattered ill preserved <sup>from 181/6</sup> fossils at the base.	2	3	186	9
	Mudstone pale brownish grey, lentic rooty, but roots ill preserved, and lentic surfaces not abundant. Rather silty, bed.	1	9	188	0
	Mudstone grey silty and rather silty, micaceous; top scabrous like with small lentic surfaces and many roots. Abundant ironstone, often in large masses (nodules). Base (below 196) silty, with laminae of siltstone.	7	6	196	—
	Sandstone greyish, silty, with laminae and bands of silty mudstone in the lower half.	1	—	197	—
	Mudstone grey, compact at top, and micaceous above 204/6; an odd root or two near the top, and occasional compressed plant remains. Below 204/6 softer, and slightly lenticular, with very scattered fossils in the lower 6".	12	3	209	3
	Mudstone mid grey to rather dark grey, with scattered muds; several of these are seen on the outside of the core. The appearance of many fossils is helped by the core itself, which was on the whole, barren; much of it, as 210/6-211/9, is shaly. [Contd]				

209029/2 2585 4m 11/8/82



Name of Shaft or Bore given by Geological Survey:

DEERDALE FARM NCB Box 1964

6-inch Map

**Registered**

No. **SK46NE**

OK 40112  
Dunby 26 Sw

SK 46 NE /

15298

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
WESTPHALIAN B	<i>Thinly bedded, containing thin layers of...</i>			209	3
	.... In this Shaly bed. no fossils were seen. Muscles are more frequent than usual in the beds 214/9-215/5 down to foot more compact and less Shaly.	10	4	219	7
	Mudstone mid grey, dashes at top and base. Wides of iron silt in the upper part. Which did rather silt. Muscles at 222	2	11	222	6
	Mudstone dark, soft (Changabong) with rather abundant smallish muscles and Ostracods. These become few in the lower part, as the rock becomes Shaly.	3	1	225	7
	Mudstone dark grey Shaly, with a 1 1/2" woustone 3/4" from base. Wides of Ostracods seen. Fish fragment.	1	-	226	7
	COAL 3/5	3	5	230	-
	Mudstone grey silt, rocky, top softer	3	-	233	-

RF July 1981

7/19/11 4m 585 2/5626657

SK 46 NE/1

# DEEPDALE FARM.

NCB 1964

SK 46002 68380

40' = 1 in

9

50

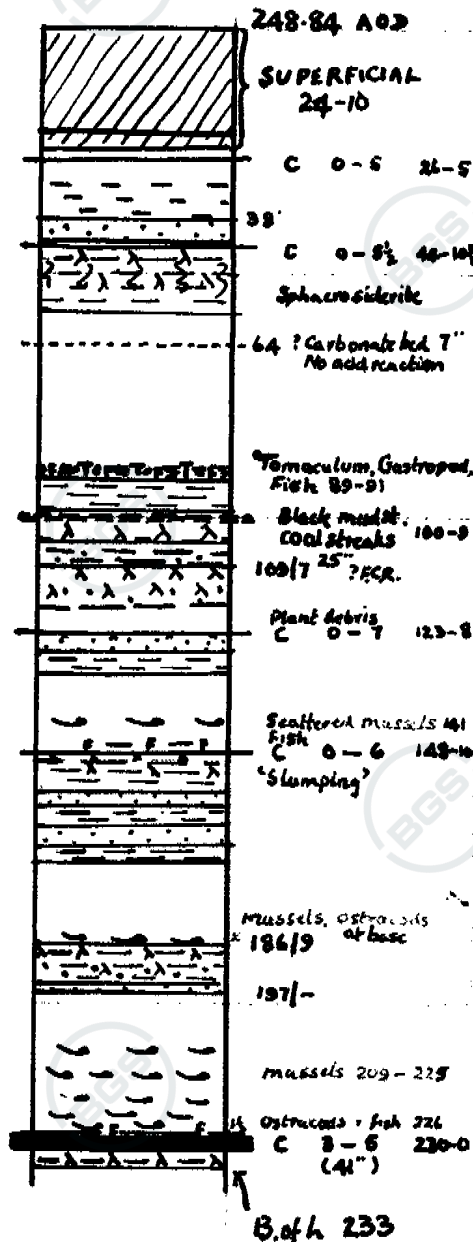
HAUGHTON  
MARINE BAND  
SWINTON POTTERY

150

200

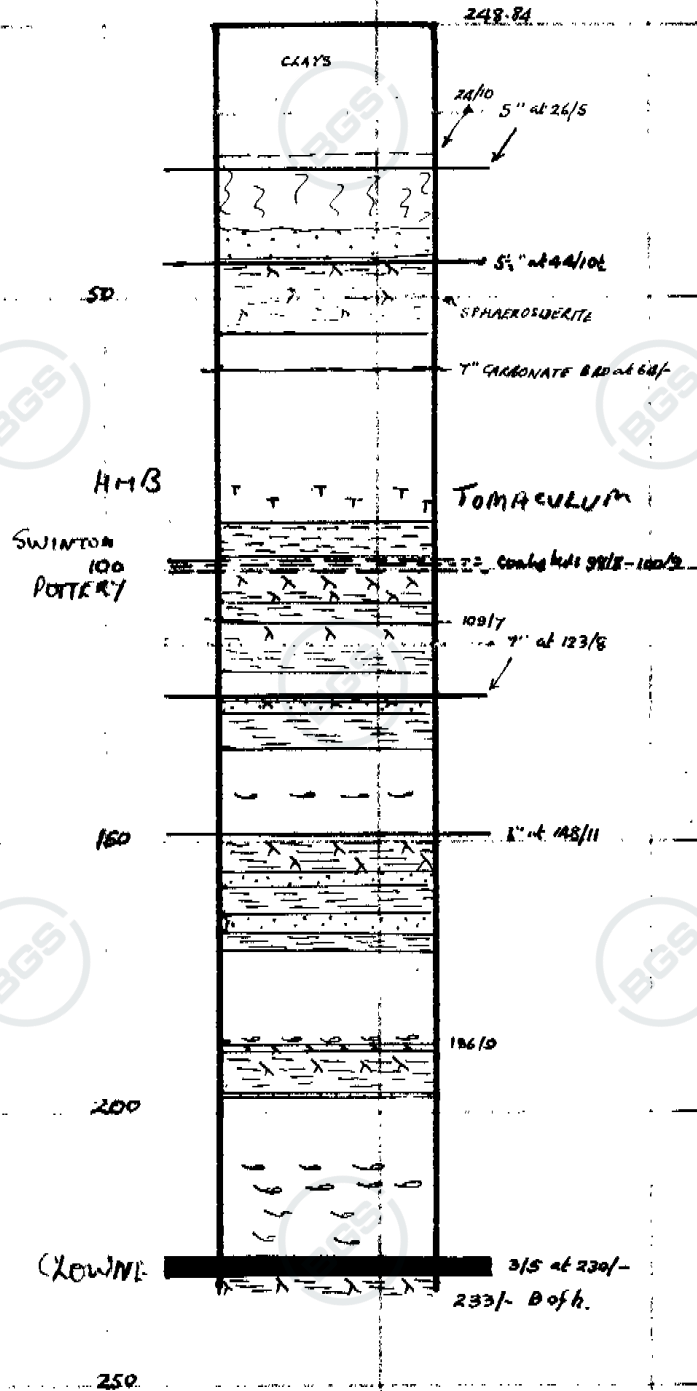
CLOWNE

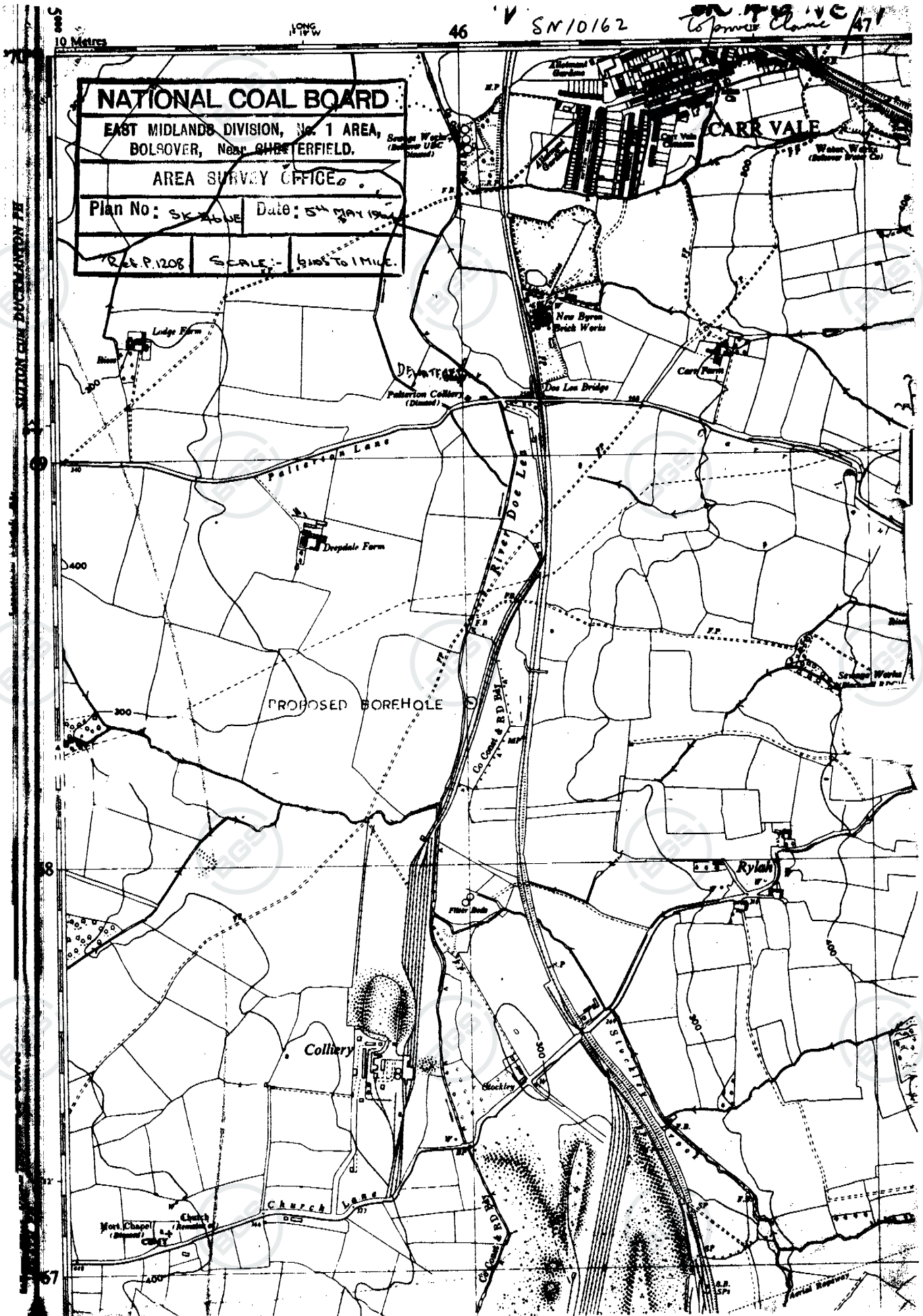
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112/298 SK46NE/1  
DEEPDALE FARM 1964  
[NGB. E.M. 1]

SK 46 002 68380







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112/298

SK 46 NE/1 SK46/14  
112/298  
Derby. 26 S.W.

Deepdale Farm, N.C.B. Bore, 1964

SK 46002 68380

N.C.B., East Midlands No. 1 Area  
Sutton cum Duckmanton Derbyshire  
600 yds S.44° E. from Deepdale  
Farm, on bank of River Doe Lea  
To prove cores on Clowne Seam  
+ 248.84

112

N.C.B. rig

Autumn 1964

Cedric G. Godwin

The original hole was drilled conventionally with diamond crown and had very poor recovery of the superficial deposits. A second hole was then put down a few feet away and dry-cored, producing a reasonable recovery at this level.

Site on SK 46 NE

In dry-cored hole:

Soil, dark brown, with grass growing in the top; passing down to subsoil; total recovery 8"

2 0 2 0

Clay, brown, appears structureless; 1/2 recovered

2 6 4 6

DRIFT

Clay, mottled, often silty, often with abundant fragments of sandstone, mudstone, iron-impregnated silt, and red shale; recovery of clay limestone; it suggests that the clay is brownish at top, with marked grey bands 17-20 and below; the rock fragments are angular and up to about 1 1/2" in diameter; much of the core is wet

20 4 24 10

WESTPHALIAN B

Mudstone, mid-grey, crushed and listricised  
COAL, only traces recovered  
Mudstone, crushed grey

1 2 26 0  
5 26 5

In diamond-cored hole:

Broken strata, total recovery about 3/-;  
mainly silty mudstone with ironstones;  
compact beds with plant debris at base;

⑦

Deepdale Farm, N.C.B. Bore, 1964. (2)

SK 46 NE 1  
Derby 26 S.W.

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SK 46/14

WESTPHALIAN B

	Brought forward		26	5
	with last item in dry-cored hole to	11 7	38	0
	Sandstone, light grey, very fine-grained, very thin bedded; beds uneven or curved; partings slightly micaceous, dark at top, grey down	5 10½	43	10½
	Mudstone, mid-grey, silty, laminated with siltstone; plant debris	5	44	3½
	Mudstone, very dark grey, coaly	1½	44	5
	COAL, fully recovered	5½	44	10½
	Mudstone, dark grey	3½	45	2
	Mudstone, crushed grey, silty, rooty, less silty at top; becomes more compact downwards	1 4	46	6
	Broken core: mudstone, grey silty, rooty, but less silty down; much sphaerosider- ite 49-51	9 6	56	0
	Mudstone, grey, silty, with plant debris, often comminuted; at the top it is suggestive of roots; laminae of siltstone	1 0	57	0
	Mudstone, grey, rather silty, softer down, with plant debris at the top; obscure debris in the lower part; this also may be of plant origin	2 0	59	0
	Mudstone, mainly about mid-grey to rather dark grey, but with somewhat paler bands; some of these bands are rather silty; ironstones scattered through the bed; above a 7" carbonate bed at 64/- there are many guillemites; the size of these suggests derivation from seeds or root ends; they are not seen below the 7" bed; organic traces at about 73/-; <u>Tomaculum</u> appears at 84/6 and is abundant at about 90/-; a cast suggestive of an ill-preserved <u>gastropod</u> at 89/-; <u>fish</u> and undetermined debris at 91/3	33 0	92	0
	Mudstone, grey, rather silty and silty, with bedding mottled as by borings at some levels	1 3	93	3
	Mudstone, grey, silty, with compact bands; comminuted, often carbonised plant debris	5 0	98	3
	Mudstone, dark grey, shaly, rather silty at base; a band of ironstone at the top with 'worm tubes'	5	98	8
	Mudstone, black, with <u>coal</u> streaks and a single bed of <u>coal</u> 2" thick	2 1	100	9
	Mudstone, brown, listric, rooty	2 9	103	6

⑧

Deepdale Farm, N.C.B. Bore, 1964. (3)

SK 46 NE 1  
Derby 26 S.W.

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SK46/14

WESTPHALIAN B

Brought forward			103	6
Mudstone, brown, listric; rooty, but rather silty		8	104	2
Mudstone, brownish-grey, silty, rooty, with abundant sphaerosiderite; few listric surfaces	1	5	105	7
Mudstone, grey, rather silty, with layers and cross laminated lenses of siltstone; also with prominent ironstone nodules; scattered roots; siltstone beds rather disturbed; below 108/4 tends to mid-grey, with traces only of roots	4	0	109	7
Seatearth, brown, rather compact, possibly with a type of Fragmental Clay Rock in the top inch; no listric surfaces seen	2	5	112	0
Mudstone, grey, rather silty, varying to mid-grey at the top, with wisps of siltstone; large nodules of ironstone; rather softer and wisplless below 115/-; roots frequent throughout	5	9	117	9
Mudstone, grey, silty, with laminae of siltstone, passing down into a siltstone with crowded cross laminated lenses; small ironstone nodules at top; roots present above the passage	1	1	118	10
Mudstone, grey, rather silty at the top; indeterminate stems above the middle, and also at base; irony bands	4	3	123	1
COAL, about 6" recovered		7	123	8
"Seatearth", no recovery		1	123	9
Sandstone, light grey, fine-grained, all probably thin bedded; bedding obscure at top and rather disturbed below; may have been originally curved	2	9	126	6
Mudstone, grey, silty and rather silty with laminae and cross laminated lenses of siltstone; these are rather even; very scattered plant debris	5	0	131	6
Mudstone, grey, silty, relatively unlaminated, with plant debris		9	132	3
Mudstone, compact, with frequent irony layers and plant debris; top micaceous; at about 140/- becomes softer; scattered mussels and a layer of obscure debris 141/- to 141/4; below this the rock becomes darker downwards, passing at about 146/- into black shaly mudstone with scattered fish and plant debris	15	11½	148	2½
Ironstone		1½	148	4
COAL, 100% recovery		6	148	10

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Deepdale Farm, N.C.B. Bore, 1964 (4)

112/298  
Derby 26 S.W.

SK46/14

WESTPHALIAN B

Brought forward			148	10
Seatearth, soft		3	149	1
Mudstone, grey, silty, rooty, very shaly at the base, where a band of siltstone shows 'slump structures'	3	2	152	3
Similar mudstone, but softer; bands of siltstone often disturbed; rooty at top	3	8	155	11
Sandstone, light grey, silty, with wisps of bedding; scattered roots	2	7	158	6
Mudstone, grey, silty, with bands of siltstone; much plant debris associated with these	5	0	163	6
Sandstone, whitish, fine-grained, probably thin and cross bedded, with lenses and wisps	3	6	167	0
Mudstone, grey, silty, with cross laminated lenses of siltstone at top	3	0	170	0
Mudstone, grey, micaceous; no fossils seen above 176/-; plant debris below	7	6	177	6
Mudstone, grey (but less pale), less micaceous, passing to about mid-grey below 181/-; ironstone bands below 181/-; very scattered plant debris	7	0	184	6
Mudstone, mid-grey to rather dark, shaly, with scattered ironstone bands; guillemites from 187/6 and scattered ill-preserved mussels at the base	2	3	186	9
Mudstone, pale brownish grey, listric, rooty, but roots ill-preserved, and listric surfaces not abundant; rather silty bed	1	9	188	0
Mudstone, grey, silty and rather silty, micaceous; top seatearth-like with small listric surfaces and many roots; abundant ironstone, often in large masses/modules; base (below 194/-) silty with laminae of siltstone	7	6	196	0
Sandstone, greyish, silty, with laminae and bands of silty mudstone in the lower half	1	0	197	0
Mudstone, grey, compact at top, and micaceous above 204/6; an odd root or two near the top, and occasional comminuted plant remains; below 204/6 softer, and slightly less pale, with very scattered mussels in lowest 6"	12	3	209	3
Mudstone, mid-grey to rather dark grey, with scattered mussels; several of these are seen on the outside of the core; the appearance of many fossils is belied by the core itself, which				



(16)

Deesdale Farm, N.C.B. Bore, 1964 (5)

SK 46 NE

Derby 26 S.W.

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SK46/14

WESTPHALIAN B

Brought forward			209	3
was, on the whole, barren; much of it, as 210/6 - 211/9, is shaly; in this shaly bed, no fossils were seen; mussels are more frequent than usual in the beds 214/9 - 215/5; lowest foot more compact and less shaly	10	4	219	7
Mudstone, mid-grey, darker at top and base; wisps of irony silt in the upper part; whole bed rather silty	2	11	222	6
Mudstone, darker, softer (change abrupt), with rather abundant smallish <u>mussels</u> and <u>ostracods</u> ; these become few in the lower part, as the rock becomes shaly	3	1	225	7
Mudstone, dark grey, shaly, with a $1\frac{1}{2}$ " ironstone $\frac{3}{4}$ " from base; a single <u>ostracod</u> seen	1	0	226	7
COAL 3/5	3	5	230	0
Mudstone, grey, silty, rooty, top softer	3	0	233	0

JULY 1981



WATER RESOURCES BOARD WELL RECORD		W.R.B. REF. No. SK46/14
SHEET 1		R.A. LICENCE No.
<b>1. WELL IDENTITY</b>		NATIONAL GRID REFERENCE SK 46002 68380
Well at Deepdale Farm		I.G.S. REF. No. Leeds NE1 112/298
600 yd S 44° E from Farm on river bank		RIVER AUTHORITY Trust
Town Sutton cum Duckmanton	HYDROMETRIC AREA 28	
County Derbyshire	SUB-CATCHMENT	
Owner of well NCB		
Well made by NCB rig		Date of sinking Autumn 1964
Information from IGS		Date received 12.3.68
<b>2. WELL DESCRIPTION</b>		
Level of ground surface ..... m. If well top is not at above* ..... m.		
above sea level (O.D.) 248.85 ..... ft. ground level how far below ..... ft.		
Shaft ..... m. deep; Diameter at top ..... m. ; at bottom ..... m.		
Bore ..... m. deep; Diameter at top ..... m. ; at bottom ..... m.		
Details of headings		
DETAILS OF PERMANENT LINING TUBES		
Length ..... m. ; Diam. ..... m. ; Plain ..... m. ; Slotted ..... m. ; Top ..... m. above* surface		
ft. ; Diam. ..... ft. ; Plain ..... ft. ; Slotted ..... ft. ; Top ..... ft. below surface		
Length ..... m. ; Diam. ..... m. ; Plain ..... m. ; Slotted ..... m. ; Top ..... m. above* surface		
ft. ; Diam. ..... ft. ; Plain ..... ft. ; Slotted ..... ft. ; Top ..... ft. below surface		
Length ..... m. ; Diam. ..... m. ; Plain ..... m. ; Slotted ..... m. ; Top ..... m. above* surface		
ft. ; Diam. ..... ft. ; Plain ..... ft. ; Slotted ..... ft. ; Top ..... ft. below surface		
Details of well screen		
DETAILS OF REST WATER LEVELS DURING CONSTRUCTION		
Water struck at depths of ..... below well top		
Rest level of water ..... m. above* O.D.* ..... m. deep. Date		
ft. below well top when bore ..... ft.		
Rest level of water ..... m. above* O.D.* ..... m. deep. Date		
ft. below well top when bore ..... ft.		
Rest level of water ..... m. above* O.D.* ..... m. deep. Date		
on completion of bore ft. below well top when bore ..... ft.		
Method of drilling		
Brief details of well development e.g. acid treatment etc.		

\* delete as applicable

(46452-1) 1