



1063 Wt. 22438/0384 10m 7/45 (51) F.&S.

RECORD OF SHAFT OR BORE FOR MINERALS

(For Survey use only)

1-inch Map Registered No. 1.

Name and Number of Shaft or Bore

RYLAH BOREHOLE

SK46NE/20

For Messrs. N.C.B. No 1 Mena, East Midlands Div.

Town or Village Rylah, N. Palterton

County Derby.

Six-inch sheet SK 46 NE

6-inch Map
Registered
No.

Exact site See attached plan. SK 46516786 Contour 367

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

Purpose for which made To prove coals down to High Hazles horizon

Level at which shaft bore commenced relative to O.D. 287.24 State if shaft bore is up, down, horizontal or

inclined; in latter cases give angle of inclination and direction down

Made by Royles Bros Ltd

16 + one to 19 + loc.

Information from core examination by E. G. Smith Date of Sinking 1958

Specimens

Additional Notes in Space Overleaf

(For Survey use only) GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		ft	in.	ft	in.
UPPER CARBONIFEROUS WESTPHALIAN C	No core (Open hole) Borehole records broken shaft 10 in. 8 ft 3 in. of core missing between 29 ft and 37 ft 6 in.	20	0	20	0
	Mudstone, dark grey; clalls near top (core in small fragments) 6 ft.				
MANCHESTER MANNING BAND	Canal with clall fragment 1 ft 2 in. Mudstone, grey, canky at top, with nause fossil (core in small fragments) 1 ft 6 in.	17	6	37	6
	Canal and dirty coal (fragment)	—	6	38	0
WESTPHALIAN B	Core missing except for 10 in. of fragment of dark grey mudstone, brown argillaceous sandstone and ironstone nodules.	3	0	41	0
	Sandstone, brown to pale grey mudstone (3 ft of core missing)	8	0	49	0
	Mudstone, grey, very silty above 54 ft, slightly silty or non-silty below; 4-in. ironstone band @ 49 ft 8 in. plus debris.	14	6	63	6
	Mudstone, rather dark grey to dark grey; rare mussel fragments; a few fish in bottom 1 ft.	6	5	69	11
		Continued		Overleaf	

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date
received

Correspond-
ence File No.

1" N.S. Map
No.

1" O.S. Map
No.

Site marked (use symbol)
on 1" Map on 6" Map

(2781) *Dd0586/Wt64575 5,000 4/55 JC&S Gp689

Name and Number of Shaft or Bore given by Geological Survey:

Rylah Borehole (continued)

County
SK46NE/20
6 Quarter Sheet

2.

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
		ft	in.	ft	in.
WESTPHALIAN B	Seatearths, grey sandy and silty; ironstone nodules in bottom 6 in.	1	3	from 69	11
	Sandstone, light grey	1	11	71	2
	Mudstone, grey silty, with plants and rootlets	2	10	73	1
	Sandstone, light grey	2	8	75	11
	Mudstone, grey silty micaceous, with abundant	3	11	78	7
	Sandstone, light grey, with dark carbonaceous micaceous laminae	3	10	82	6
	Mudstone, grey, silty with ironstone bands and plant fragments above 94/-; rare tiny fragments of 'mussels' below 94/- (core fragmentary)	16	9	86	4
	Mudstone, dark grey	2	8	103	1
	Mudstone, grey, silty above 108/4	4	0	105	9
	Seatearths, grey mudstone, with bands containing abundant sphaeroidites	6	9	109	9
	Mudstone, dark grey with rootlets; sporadic ironstone nodules below 117/10; <i>D. bicularis</i> @ 126/9 (core fragmentary)	10	4	116	6
	Coal 8 in. (Boremaster's record; 6 in. of fragments recovered)	—	8	126	10
	Mudstone, grey, clunchy, with plants a rootlets; carbonaceous in bottom 1 in.	3	7	127	6
	Coal 1 in. Dirt (Dark grey mudstone with abundant rootlets) 9 in. } 11 in.	—	11	131	1
	Coal 1 in.	—	11	132	0
Sutton Marine Band	Mudstone, rather dark grey, with plants a rootlets; a few ironstone nodules in lower part	3	9	135	9
	Sandstone, light grey with bands of grey silty mudstone	7	5	143	2
	Shale, black carbonaceous with coal bands	1	0	144	2
	Seatearths, hard brownish to greenish grey silty	5	3	149	5
	Mudstone, dark grey silty, with rootlets; ironstone bands and nodules	4	11	154	4
	Houghton Marine Band				
	Mudstone, dark grey, with ironstone bands and nodules; rootlets at top. <i>Lingula</i> , fish, <i>Planolites</i> , <i>Fucoida</i> , <i>Foraminifera</i>	27	11	182	3
	Sandstone, light grey, with shaly bands; plant debris	2	1	184	4

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Name and Number of Shaft or Bore given by Geological Survey:

Rylah Borehole (continued)

County

6 Quarter Sheet

3.

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
		ft	in.	ft	in.
WESTPHALIAN B	Mudstone, grey silty, with sandstone laminæ	1	3	from 184	4
	Mudstone, grey	3	1	185	7
	Sandstone, light grey	—	3	188	2
	Mudstone, dark grey	—	5	188	11
				189	4
	Coal 0½ in.	— 2½		189 6½	
	Part 1 in.				
	Dirty coal 1 in.				
	Mudstone, dark grey with abundant plant fragments	—	3½	189	10
	Seatearth, grey mudstone	1	0	190	10
	Seatearth, grey silty mudstone, with ironstone nodules; passing down to:—	3	5	194	3
	Mudstone, grey silty, with ironstone nodules in top 3 ft; ironstone bands in lower part; sporadic thin sandstone bands below 201/5; plant debris	15	3	209	6
	Coal 7 in.	—	7	210	1
	Seatearth, grey mudstone, becoming silty downwards; ironstone nodules in top 1 ft.	5	5	215	6
	Mudstone, grey silty, with roots at top, plant debris	18	11	234	5
	Sandstone, light grey with silty bands	1	1	235	6
	Mudstone, grey, slightly silty in parts; sporadic 'mussels' and plant fragments	8	6	244	0
	Mudstone, dark grey; 2-in ironstone band @ 247/4 and other thin ironstone bands; fish fragments; poor 'mussels' in bottom 4 in.	3	10	247	10
	Seatearth, grey mudstone, with ironstone nodules in bottom 6 in.	1	5	249	3
	Mudstone, grey silty, with ironstone nodules above 252/6; sandstone bands between 252/6 and 257/6 and rarely between 261/0 and 271/0; rootlets in top 10 ft; scattered plant debris	30	0	279	3
	Mudstone, grey, with sporadic ironstone bands; a few poor 'mussels' around 281/0	4	0	283	3
	Mudstone, dark grey, with ironstone bands in upper part, plant debris	1	9	285	0

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Name and Number of Shaft or Bore given by Geological Survey:

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6" Quarter Sheet

SK46NE/20 4.

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
		ft	in	ft	in
WESTPHALIAN	Seatearth, quartzitic in top part, argillaceous with sphaerosiderite in lower			from 285	0
	Sandstone, light grey, with silty bands	4	2	289	2
	Mudstone, grey silty (very silty at top, becoming less silty downwards and passing into next lower division); scattered plant fragments; <i>Belonolaple kochi</i> @ 299/3	2	11	292	1
	Mudstone, grey, with thin ironstone bands	7	11	300	0
	Mudstone, dark grey, with sporadic thin ironstone bands; abundant 'murels' above 320/11; abundant ostracods between 312/0 and 320/11; collopene + plate only in bottom 1 ft	4	5	304	5
	<u>CROWN</u> <u>COAL</u> 30 in. (20 in. of fragments recovered initially, but a division produced a better core of 30 in.)	17	6	321	11
	Seatearth, hard light grey silty	2	6	324	5
	Mudstone, grey, very silty, with sandy bands	1	8	326	1
	Mudstone, dark grey, silty in part, with plant debris	3	8	329	9
	Mudstone, grey silty, with plant debris	1	3	331	0
	Sandstone, light grey, fine-grained, with silty bands	6	4	337	4
	Mudstone, grey silty, with sandy bands	5	0	342	4
	Mudstone, grey, becoming darker downwards; thin ironstone bands	3	4	345	8
	<u>Manton Esthena Band</u>	3	5	349	1
	Mudstone, dark grey, with 4 in. ironstone band @ 352/1; scattered fish and <i>Esthena</i>	4	9	353	10
	Mudstone, grey silty, with thin ironstone bands; plant debris	4	7	358	5
	Mudstone, rather dark grey; thin ironstone bands in upper part, badly slickensided in lower; plant debris	2	4	360	9
	Seatearth, pale grey; hard and silty at top; soft, argillaceous with sphaerosiderite at bottom	4	0	364	9
	Mudstone, grey, with 5 in. ironstone band at 367/1; then thin bands or lenses of ironstone occur sporadically	17	5	382	2
	Mudstone, dark grey, with plant debris	--	9	382	11
	<u>COAL</u> 12 in. (6 in. of fragments recovered)	1	0	383	11
	Seatearth, grey silty mudstone, with a few ironstone nodules in lower part	6	5	390	4
	Siltstone, light grey, with plants, rootlets at top	8	8	399	0

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Name and Number of Shaft or Bore given by Geological Survey:

Ryhal Borehole (continued)

County

SLUBONE/20
6" Quarter Sheet

5.

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
		FT	in.	FT	in.
WESTPHALIAN B	Mudstone, grey silty, with plants	1	0	from 399	0
	Seatearth, grey mudstone, with coal streaks and thin bands	6	2	400	0
	Mudstone, grey, very silty, with sandy bands; rootlets at top	4	5	406	2
	Sandstone, light grey, interbedded with silty mudstone 2 in bottom 9 in.	2	2	410	7
	Mudstone, grey silty, with sandy bands; scattered plant debris	4	9	412	9
	Seatearth, grey mudstone	1	9	417	6
	Mudstone, grey silty, with rootlets & plants	3	11	419	3
	Mudstone, dark grey, clunchy	—	5	423	2
	COAL 1 in.	—	1	423	7
	Seatearth, grey sandy and silty	2	3	423	8
	Interbedded light grey sandstone and grey mudstone or silty mudstone; 'mussels' 432/7-10; plant debris	9	0	425	11
	Mudstone, grey, with ironstone bands	7	9	434	11
	Mudstone, grey to rather dark grey, silty, with abundant 'mussels'	9	5	442	8
	Mudstone, dark grey, with 'mussels' which are sporadic & mostly fragmentary below 454/9	13	11	452	1
	Two-foot Marine Band			460	0
	Mudstone, dark grey, with Lingula above 467/2; sporadic fish below	1	11	467	11
	TWO-FOOT				
	COAL 23 in.				
	Seatearth, grey mudstone 16 in.				
	Dirty COAL 2 in.	3	5	471	4
	Seatearth, grey mudstone	—	8	472	0
	Seatearth, grey silty mudstone, with sandy bands and ironstone nodules	4	8	476	8
	Seatearth, soft grey mudstone	—	3	476	11
	Sandstone, light grey, with silty mudstone bands between 480/- and 484/-	16	10	493	9
	Mudstone, grey, silty above 496/6; ironstone bands	9	10	503	7
	Shale, dark grey, with a few fish scales	—	8	504	3
	FURNACE				
	COAL 23 in.				
	Dirt 2 in.				
	COAL 2 in.	2	3	506	6
	Shale, black, carbonaceous, with coal bands	—	4	506	10
	Seatearth, grey mudstone, silty at base, scattered ironstone nodules except in top 1 ft; passing down to	7	8	514	6
	Mudstone, grey silty, with plants; passing down to	7	2	521	8

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Rylah Borehole (continued)

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6. SK46NE/20
6" Quarter Sheet

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
		Ft	in.	Ft	in.
	Seatearth, grey silty mudstone	1	8	from 521	8
	Mudstone, grey silty, with sandstone laminae in top 1 ft; ironstone nodules and thin bands; sporadic rootlets & abundant plants	9	11	523	4
	Shale, black carbonaceous	—	3	533	3
	COAL 4 in. (fragments recovered)	—	4	533	10
	Seatearth, dark grey mudstone	—	6	534	4
	Seatearth, grey mudstone, with ironstone nodules in lower part	3	0	537	4
	Mudstone, grey, very silty, with a few sandy bands & laminae in bottom 6 ft; sporadic ironstone nodules & thin bands; sporadic plant debris	12	8	550	0
	Sandstone, light grey, fine-grained, with sporadic bands and partings of grey silty mudstone	22	8	572	8
	Interbedded light grey sandstone and grey silty mudstone	6	7	579	3
	COAL 16 in.	1	4	580	7
	Seatearth, grey mudstone, silty except in top 3 in.; ironstone nodules in bottom 7 in.	1	4	581	11
	Mudstone, grey silty, with sandstone bands & laminae which decrease in frequency downwards; sporadic thin ironstone bands	8	5	590	4
	Mudstone, dark grey, with abundant 'murelets'	—	6	590	10
	Mudstone, dark grey silty, with sandstone bands; plant debris	1	11	592	9
	Seatearth, pale grey, sandy at top, silty mudstone below	5	4	598	1
	Mudstone, grey silty, interbedded with light grey sandstone below 602/8; sporadic plant debris	6	7	604	8
	Seatearth, pale grey mudstone (core fragmentary and partly lost)	2	4	607	0
	Interbedded silty mudstone and sandstone; slump structures; rootlets at top	2	7	609	7
	Cavings (core lost)	2	7	612	2
	Mudstone, pale grey, very silty (core fragmentary)	5	6	617	8
	Mudstone, pale grey (core fragmentary)	5	10	623	6
	Mudstone, grey to dark grey, with numerous ironstone bands; numerous murelets and sporadic plants	5	7	629	1
	Sandstone, light grey, fine-grained (core fragmentary)	2	6	631	7
	Fragments of sandstone and silty mudstone	3	4	634	11



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Name and Number of Shaft or Bore given by Geological Survey:

Ry/ah Borehole (continued)

County

7.
SE46NE/20
6" Quarter Sheet

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
		FT	in	FT	in
WESTPHALIAN 3	Mudstone, grey silty; sporadic ironstone bands; sandstone laminae in bottom 1 ft 6 in; B. Kochi at 650/9; 'mussel' at 650/9½	20	7	from 634	11
	Mudstone, grey, with numerous ironstone bands	9	9	655	6
	Mudstone, dark grey; shell fragments and thin ironstone bands in bottom 4 in. (core badly shattered and mixed with cavings between 670/5 and 674/5)	9	6	665	3
	HIGH HAZLES COAL (core fragmentary) 35 in.	2	11	674	9
	Seat earth, grey mudstone, with dark shaly bands	1	5	677	8
	Core lost	1	2	679	1
				680	3

Base of Borehole

8
July 1981

