SW/16

This copy received 28-2-86 dlg and added to bite

Form P.70
(Series 610)

6-inch Map (County, Sheet and Qtr.)	S/H Regd. No
SK 46 NW/16 (Nat. Grid, Sheet and Qtr.)	20

Attach tracing from a map or sketch map if possible

SECTION OF BOLSOVER NO. 11 U.G. DOWNBORE

PURPOSE To prove the seams down to the Threequarters

EXACT SITE National Co-ordinates
E 444541
N 369652

LEVEL AT WHICH ~~shaft~~ bore ~~drift~~ COMMENCED RELATIVE TO O.D. 8566.1 ft. (Deep Hard Seam)

DATE OF SINKING OR BORING March - July 1967

SINKER OR BORER North Derbys. Area Boring Team

Cores examined by P.G. Strauss, N.C.B. Geologist

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
				10	0
Sandstone	micaceous planes, load casts/slurried layer at top, top and bottom 0/2 silty bands	1	0	11	0
Siltstone	laminated, fine sandy laminae and bands 11/10-12/1, fining downwards, thin ironstone band at base	2	4	13	4
Siltstone	fine, muddy, barren	1	0	14	4
Siltstone	and sandstone interlaminated, micaceous planty planes, wavy-bedded	0	8	15	0
Siltstone	massive, small plant fragments with 0/1 ironstone band at 15/4	1	8	16	8
Siltstone	and sandstone laminae and bands, occasional diastems, micaceous planty planes, large strap plants	2	2	18	10
Sandstone	mainly massive, homogenous, brownish, well cemented, occasional coalified planty layers false bedded units below 21/8	3	10	22	8
Siltstone	laminated, thin sandy layers, occasional worm burrows, strap plants and rare leaves, ferruginous at base	3	1	25	9
Sandstone	cross-bedded units, micaceous planes, silty bands with worm burrows and plants below 26/8	1	6	27	3
Siltstone	vaguely laminated, fine strap plants and worm burrows to 30/0, cross-bedded sandy layers 30/0-30/9, mainly barren and fine below, ferruginous bands below 34/2 sharp	13	11	41	2

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SECTION OF BOLSOVER NO. 11 U.C. DOWNBORE

	GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN
	Mudstone	slightly shaly, occasional ferruginous patches	1	3	41 42	2 5
	*Mudstone	shaly, ironstone nodules	1	4	43	9
	*COAL	complete (Drillers thickness 2/1)	2	0	45	9
	*Seatearth	mudstone, silty, occasional listric surfaces and bright coal streaks	0	5	46	2
FIRST	Bat	with 0/1 COAL at about 48/7	3	1	49	3
PIPER	Seatearth	siltstone, rootlets	0	9	50	0
	*Siltstone	muddy, abundant plants, several ironstone nodules	0	5	50	5
	*COAL	solid cores and fragments	3	0	53	5
	*Seatearth	mudstone, silty, top 0/0¾ highly carbonaceous	0	7	54	0
	Seatearth	siltstone coarse rootlets, (fragmented to 55/0) root-nodules, strong	2	7	56	7
	Siltstone	and sandstone interlaminated, rootlets, root nodules	3	9	60	4
	Sandstone	micaceous planes, cross-bedded units	1	5	61	9
	Siltstone	occasionally micaceous and some small planty debris, cross-bedded sandy units below 63/6	4	9	66	6
	Sandstone	micaceous planes, ferruginous specks	1	4	67	10
	Siltstone	fine in parts, small plant fragments including Neuropteris and also micaceous in parts	2	2	70	0
	Siltstone	coarse and fine sandstone layers, micaceous, small plant debris sharp	2	10	72	10
	Siltstone	massive, small plant fragments, ferruginous at top	0	8	73	6
	Sandstone	abundant plant fragments	1	2	74	8
	Siltstone	coarse and sandstone medium , layers and laminae, micaceous, ferruginous specks in sandstone	6	0	80	8
	Siltstone	mainly fine to medium, massive, small strap plants, sandy with micaceous planty planes 86/10-87/2	7	6	88	2
	Mudstone	occasional pyritised plants c.	0	2	88	4
	Not	examined	0	4	88	8
SECOND	*COAL	(0/3 not seen, cannel 0/3, coal 1/0½)	1	6½	90	2
PIPER	*Siltstone	muddy, abundant non-marine lamellibranch, several rootlets	0	5	90	7

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SECTION OF BOLSOVER NO. 11 U.G. DOWNBORE

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
*COAL		0	6	90	7½
				91	1½
*Seatearth	mudstone, many listric surfaces	0	7½		
				91	9
Mudstone	shaly, faintly carbonaceous in parts, abundant plants including Calamites c.	1	6		
				93	3
Siltstone	massive, ferruginous at top, abundant plants c.	0	6		
				93	9
Sandstone	massive, well cemented, ferruginous in parts	0	6		
				94	3
Siltstone	mainly coarse and sandstone fine, layers and laminae, rare large strap plants, but abundant small plant debris, irregular ferruginous patches, micaceous in parts, finer in parts towards base	7	11		
				102	2
Siltstone	mainly fine to medium, several ferruginous bands, strap plants to 104/0, sandy layers 106/5 to 107/0, large strap plant at 108/2	7	0		
				109	2
Siltstone	very fine, muddy, barren, laminated, several thick irony bands, wormy in parts	3	3		
				112	5
Mudstone	shaly, single non-marine lamellibranch at 113/6. abundant ostracods at 114/0 decreasing downwards, abundant non-marine lamellibranch below 114/5, slightly carbonaceous layer 114/7-114/9, calcareous abundant large thick shelled non-marine lamellibranchs below, with several irony patches and bands and several more alternating carbonaceous layers (core broken in parts)	3	10		
				116	3
Ironstone	band	0	9		
				117	0
Mudstone	shaly in parts, rare ostracods, occasional non-marine lamellibranch, abundant ferruginous bands and some shelly ironstone (core broken above 122/8)	6	4		
				123	4
Mudstone	dark, abundant ostracods, large fish scale, abundant non-marine lamellibranch	0	4		
				123	8
Mudstone	carbonaceous, slightly shaly, homogenous	1	2½		
				124	10½
COAL	bright	0	3		
				125	1½

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SECTION OF BOLSOVER NO. 11 U.G. DOWNBORE

	GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
					125	1½
	Seatearth	immature, siltstone, rootlets, carbonaceous to 126/3, root nodules below	7	5½	132	7
	Mudstone	rootlets at top, ironstone band 132/9-132/11, dark, carbonaceous in parts, large non-marine lamellibranchs, pyritised towards top, many shelly ironstone bands, also rare thin-shelled non-marine lamellibranchs, abundant ostracods, rare strap plants, rare localised listric surfaces (drillers depth)	12	4	144	11
	Mudstone	shaly, friable, barren (bottom 0/3 examined at Laboratory)	1	7	146	6
	*Mudstone	shaly, dark grey, fish and non-marine lamellibranch fragments, ostracods, small phosphatic nodules	0	2½	146	7½
	*COAL	(solid cores and fragments)	2	0	148	7½
TUPTON	*Dirt	with two thin coal bands (Drillers thickness 1/0)	0	11½	149	8
	*COAL	mainly solid cores, fragments in top 0/6 and broken in bottom 0/6	3	10	153	6
	*Seatearth	siltstone, muddy	0	7	154	1
	Seatearth	siltstone fine, muddy, brown, highly listric, rootlets	1	7	155	8
	Seatearth	siltstone, homogenous, rootlets, root nodules below 156/11	3	1	158	9
	Siltstone	massive, rootlets, abundant irony nodules and bands and strap plants, associated with sandstone in parts, ironstone band 161/4 to base	3	2	161	11
	Siltstone	coarse and fine sandstone, finely inter-laminated, abundant worm burrows, 0/3 ironstone band at base	2	1	164	0
	Siltstone	coarse and sandstone fine, layers and laminae, ripples, worm burrows	1	6	165	6
	Sandstone	massive, well cemented, cross-bedded at top, micaceous planty planes, load casts/ slurried base	1	4	166	10

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SECTION OF BOLSOVER NO. 11 U.C. DOWNBORE

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
				166	10
Siltstone	coarse, massive, ferruginous, abundant small strap plants	1	4	168	2
Sandstone	massive, homogenous, micaceous planes	1	4	169	6
Siltstone	coarse, massive, sandstone band 171/0-171/2 with strap plants at top	1	8	171	2
Siltstone	coarse and sandstone fine, layers and laminae micaceous planes and occasionally with plants, rippled, predominantly sandstone 181/7-181/9½ 173/11-175/4; abundant strap plants 175/4-176/7	5	5	176	7
Siltstone	massive, fining downwards, barren, ironstone band and nodules 179/7-178/0, very fine and muddy below and wormy, ironstone band 181/4-181/6; less muddy and fine below. Ironstone lens at 182/4	6	0	182	7
*Siltstone	muddy, dark grey	0	7	183	2
THREE-QUARTERS *COAL	solid core, top and bottom 0/4 broken	2	11	186	1
*Siltstone	coarse, occasional coal streaks	0	4½	186	5½
*Siltstone	and sandstone interlaminated	0	6	186	11½
*Sandstone	coarse, micaceous planes with coaly streaks	0	2	187	1½
*Sandstone	and siltstone, interlaminated	0	5½	187	7
	Base of borehole				

* These cores have been examined at the South Notts. Extended Services Laboratory, Eastwood.

2/6 5-1
2 4-7
4 0-2
2 1-3
11 5-7