



Form P.70
(Series 610)

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 ^{shot}_{bore} 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

6-inch Map

B/N
Regd. No

(County, Sheet and Qtr.)

20

SK 46 NW / 16

(Nat. Grid, Sheet and Qtr.)

Attach tracing from a map or
sketch map if possible

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	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 oolitic 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.G. DOWNBORE

8-inch Map

B/H

SK 46 NW/16

FIRST
PIPER

SECOND
PIPER

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	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
Bat	with 0/1 COAL at about 48/7	3	1	49	3
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 0/0 $\frac{1}{2}$ 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
*COAL	(0/3 not seen, cannel 0/3, coal 1/0 $\frac{1}{2}$)	1	6 $\frac{1}{2}$	90	2
*Siltstone	muddy, abundant non-marine lamellibranch, several rootlets	0	5	90	7



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SECTION OF BOLSOVER NO. 11 U.C. DOWNBORE

8-inch Map

B/H

SK 46 NW 110

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	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 iron 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 iron patches and bands and several more alter- nating 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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6-inch Map

B/N

SECTION OF BOLSOVER NO. 11 U.G. DOWNBORE

SK 46 NW/16

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
Seatearth	immature, siltstone, rootlets, carbonaceous to 126/3, root nodules below	7	5½	125	1½
				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
				153	6
*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	3
Seatearth	siltstone, homogenous, rootlets, root nodules below 156/11	3	1	158	9
Siltstone	massive, rootlets, abundant iron 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	165	10



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6-inch Map

S/N

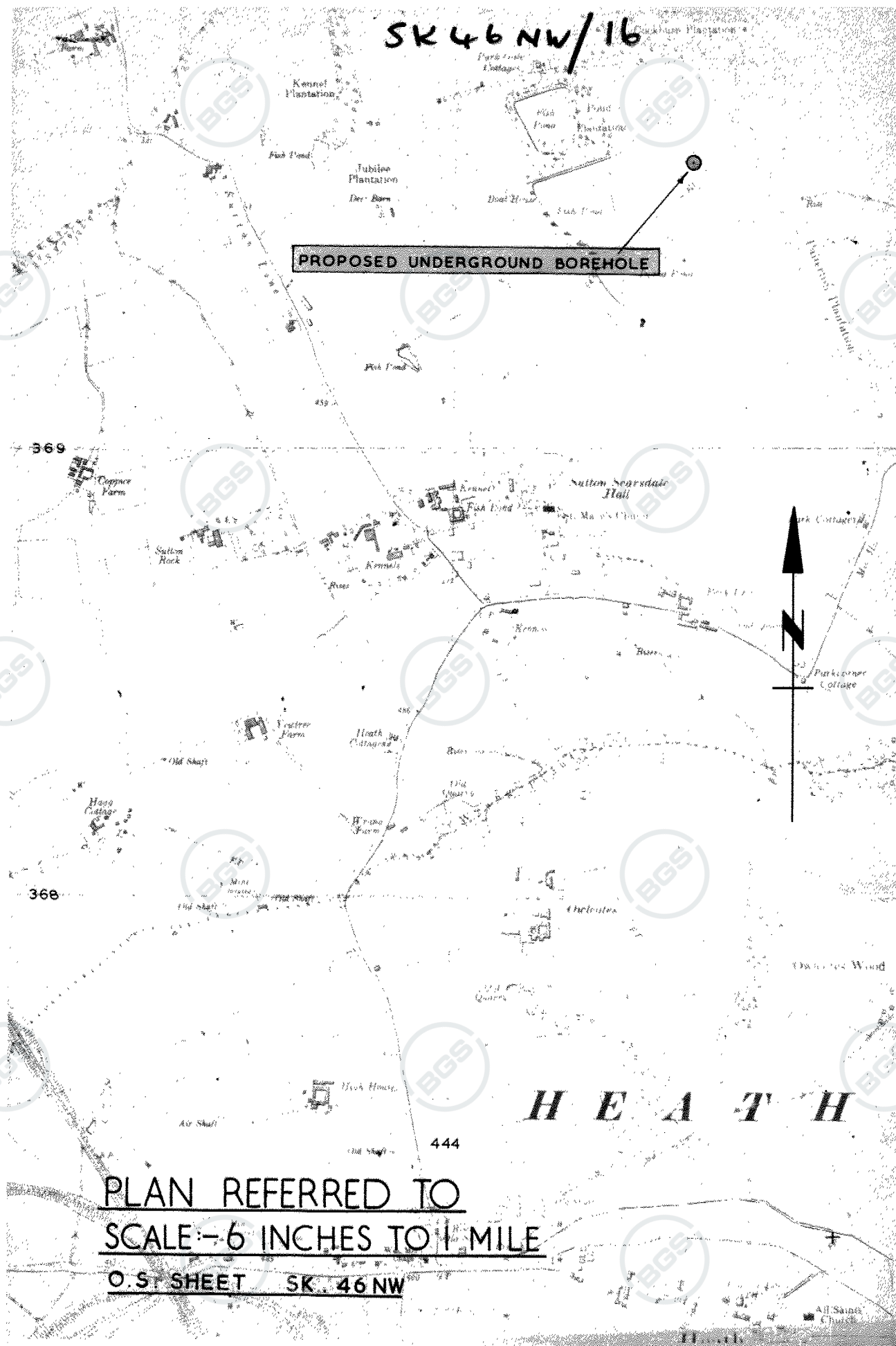
SECTION OF BOLSOVER NO. 11 U.G. DOWNBORE

SK 46 NW

16

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
Siltstone	coarse, massive, ferruginous, abundant small strap plants	1	4	166	10
				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 181/7-181/9, 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	4 1/2	186	5 1/2
*Siltstone	and sandstone interlaminated	0	6	186	11 1/2
*Sandstone	coarse, micaceous planes with coaly streaks	0	2	187	1 1/2
*Sandstone	and siltstone, interlaminated	0	5 1/2	187	7
	Base of borehole				
	* These cores have been examined at the South Motts. Extended Services Laboratory, Eastwood.				

2/3 5.5
2 4.7
1 0.2
2 1-3
11 0.7



PLAN REFERRED TO
SCALE:- 6 INCHES TO 1 MILE
O.S. SHEET SK. 46 NW