Form P.70
(Series 610)

SK 47 SW/23

6-inch Map (County, Sheet and Qtr.)	B/H Regd. No
SK 47 SW (Nat. Grid, Sheet and Qtr.)	36

Attach tracing from a map or sketch map if possible

SECTION OF BOLSOVER NO. 15 UNDERGROUND DOWNBORE

PURPOSE To prove seams down to Blackshale

EXACT SITE E 444648 N 371340

LEVEL AT WHICH ~~bore~~ COMMENCED RELATIVE TO O.D. Base of Deep Hard 8535 ft. A.O.D. A. Coal Board. D of −10000 ft Sly.

DATE OF SINKING OR BORING March - April, 1970

SINKER OR BORER N.C.B.

Cores examined by P. Boam and P.G. Strauss

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Cores:			10	4
Siltstone	fine abundant Calamites in top 0/3 with sandstone fine, train drift 10/7 - 10/10	0	6	10	10
Siltstone	fine with sandstone fine, many lenticular sandstone laminae and layers and several slurry/load cast layers up to 0/5 thick, abundant plant fragments throughout sharp	6	3	17	1
Sandstone	fine irony with relict variously inclined cross laminated units with diastems to 18/5 and sharp diastem at base, many micaceous patches below with ripple drift	2	11	20	0
Siltstone	fine with some sandstone fine lenticular laminae and lenses, ironstone band 0/2 at 22/0, 22/0 to 24/6 muddy with rare sandstone, disturbed irregular more abundant sandstone fine laminae with occasional worm burrows 25/0 to 26/6, little thin sandstone laminae 26/6 to base	8	0	28	0
Siltstone	fine with sandstone fine variously inclined discontinuous layers with vague train drift, slurry 29/7 - 30/5 many sandstone pouches sharp	2	5	30	5
Sandstone	fine with many micaceous patches and planes, low angle cross-laminations and diastems to 31/7 with siltstone fine and lenticular sandstone fine lenses and low inclined diastems below	2	7	33	0

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Section of BOLSOVER NO. 15 U.G. DOWNBORE

6-INCH MAP	B/H
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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				33	0
Mudstone	slightly wormy very silty to 34/7, ironstone band 34/7 to 34/9, silty below and unlaminated to 35/8, wormy with several ironstone bands up to 0/1½ to 39/0, very wormy rare pyritic globules	9	11		
				42	11
* Mudstone	dark grey slightly shaly few thin bright coal streaks towards base	0	4		
				43	3
FIRST PIPER * COAL	coal 1/3 seatearth mudstone 0/1 coal 0/8 mudstone listric carbonaceous 0/0½ coal 0/1½ seatearth mudstone 0/1½ coal 0/2½ seatearth mudstone listric carbonaceous 0/7½ coal 0/5½ mudstone highly carbonaceous 0/1 coal 1/5 coal dirty 0/1 Core recovery 100% Thickness based on hand-timed graph: 5/1	5	2		
				48	5
* Mudstone	highly carbonaceous, bright coal streaks	0	2		
				48	7
* Seatearth	mudstone grey listric rootlets darker in top 0/1	0	4		
				48	11
Seatearth	mudstone brown, listric, occasional root nodules from 50/5, grey below 51/3 with many root nodules	5	7		
				54	6
Seatearth	siltstone fine, rooty	2	6		
				57	0
Siltstone	fine massive many irregular ironstone nodules in top 0/6, many ferns occasional ironstone and Calamites	5	1		
	sharp			62	1
Sandstone	fine, rib and furrow	3	2		
	sharp			65	3
Siltstone	fine laminated with occasional sandstone fine lenticular layers with rib and furrow; siltstone slurry with comminuted plant debris and with slightly inclined rib and furrow sandstone 0/7 thick from top to 67/0 and with two thick ironstone lenses, rib and furrow sandstone 67/0 to 67/8, abundant plant debris throughout, occasional ferns below 72/0	6	9		
				72	6

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Section of BOLSOVER NO. 15 U.G. DOWNBORE

6-INCH MAP	B/H
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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				72	6
Siltstone	fine muddy in parts, slightly wormy in top 2/0, unlaminated to massive occasional ferns 77/6	5	1	77	7
Mudstone	wormy unlaminated, rare small plant fragments	4	5	82	0
Siltstone	fine unlaminated rare plant debris vaguely wormy below 85/11 (core lost 3/0 presumably at base)	7	10	89	10
Mudstone	shaly carbonaceous with many ostracods and few thin shelled non-marine lamelli-branchs	1	1	90	11
Seam	Cannel 0/9 Mudstone, shaly, carbonaceous 0/5 Ironstone 0/3 Coal 0/10	2	3	93	2
Mudstone	highly carbonaceous abundant non-marine lamellibranchs and some coalified strap plants	0	2	93	4
Seatearth	immature, mudstone dark occasional roots and many large and small thick-shelled non-marine lamellibranchs	0	8	94	0
Seatearth	mudstone	1	5	95	5
SEAM	batt 0/2 coal 0/6 approx. (solid core and fragments) seatearth mudstone 0/4 batt 0/7	1	7	97	0
Seatearth	mudstone, rooty and other plant fragments and Lepidodendron, abundant irregular ironstone 97/9 to 98/2 sharp	1	6	98	6
Siltstone	medium with sandstone fine lenticular laminae and layers and occasional slurries occasional root nodules to 99/9, rippled sandstone layer 99/11 to 100/4, occasional ironstone bands up to 0/1½, fine and muddy in parts with little lenticular sandstone fine and many worm burrows below 100/6 ironstone 0/2 at base, some plant debris throughout sharp	10	5	108	11

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Section of BOLSOVER NO. 15 U.G. DOWNBORE

6-INCH MAP	B/H
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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				108	11
Mudstone	unlaminated, silty, single non-marine lamellibranchs at 110/10, very wormy several ironstone bands up to 0/2 thick	9	9		
				118	10
Mudstone	dark slightly shaly with non-marine lamellibranchs and ostracods, distinctly shaly with abundant non-marine lamelli-branchs ostracods 120/1 to base with 'shelly' ironstone 120/3 to 121/1	3	0		
				121	10
Mudstone	with many ironstone bands and occasional non-marine lamellibranchs and rare coaly plant fragments	7	10		
				129	8
Mudstone	slightly shaly dark with large non-marine lamellibranchs in top 0/3; highly carbonaceous below with several coalified plant fragments, ostracods locally abundant, very coaly below 131/0	2	0		
				131	8
BAT		0	5		
				132	1
Seatearth	siltstone medium occasional roots	2	1		
				134	2
Seatearth	immature siltstone fine muddy in parts occasional roots throughout	5	2		
				139	4
Mudstone	shaly slightly carbonaceous few non-marine lamellibranchs, very shaly with abundant ostracods and large non-marine lamelli-branchs below 140/7, cannelloid 143/5 - 144/2, abundant carbonated non-marine lamellibranchs 144/2 - 145/0	6	2		
				145	6
* Mudstone	grey, slightly listric to base	0	4½		
				145	10½
Mudstone	shaly cannelloid fragmented non-marine lamellibranchs, fish debris, ostracods, plant	0	1½		
				146	0
* SEAM COCKLESHELL	coal 2/0 Core recovery 96%	2	0		
				148	0
* Seatearth	mudstone, roots, listric with coaly streaks	0	1		
				148	1
* COAL	bright, very dirty	0	1		
				148	2

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6-INCH MAP	B/H
SK 47 SW	36

Section of BOLSOVER NO. 15 U.G. DOWNBORE

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				148	2
* Mudstone	shaly, carbonaceous, Stigmaria	0	10		
				149	0
Seatearth	immature, siltstone medium, fining downwards, rare vague roots but more distinct towards base several oblique local listric surfaces and several thin ironstone bands	3	0		
				152	0
Mudstone	silty, unlaminated few roots local listric surfaces with irregular thin ironstone bands	1	11		
				153	11
* Mudstone	with ironstone nodules	0	6		
				154	5
* SEAM	Brights 0/3 Seatearth mudstone 0/10½ Brights dirty 0/1½ Mudstone dark 0/3½ Brights dirty 0/3½ Brights 0/7½ Mudstone carbonaceous 0/4				
LOW TUPTON	Coal 2/7½ Core recovery 100% Thickness based on hand-timed graph	5	4		
				159	10
* Seatearth	mudstone rootlets listric coaly streaks in top 0/0½	0	7		
				160	5
Seatearth	siltstone coarse, well cemented, brown to 160/10, dark from 160/10 to 161/3, medium below, occasional root nodules below 162/1, roots throughout	5	0		
				165	5
Siltstone	medium with many thin lenticular sandstone fine laminae disturbed by profuse worm burrows throughout and Stigmaria in top 1/0, siltstone fine with little lenticular sandstone fine laminae below 170/0 and rare sandstone fine below 174/0	10	7		
				176	0
Siltstone	medium to fine unlaminated wormy vague, sandstone laminae below 180/0 with plant fragments	4	6		
				180	6
Siltstone	fine to medium with little lenticular sandstone fine laminae and lenses disturbed by abundant worm burrows throughout	4	0		
				184	6
* Mudstone	dark grey	0	2		
				184	8
* SEAM THREEQUARTERS	coal 3/0 Core recovery 100% Thickness based on good hand-timed graph	3	0		
				187	8

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6-INCH MAP	B/H
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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				187	8
* Seatearth	siltstone fine rootlets and sandstone layers increasing downwards	0	10		
				188	6
Siltstone	coarse with sandstone even laminae and layers disturbed by roots, several inclined laminae in top 0/3, several irregular root nodules and less sandy below	1	6		
				189	6
Seatearth	siltstone fine muddy in top 0/2 darkish rooty	1	7		
				191	7
Mudstone	shaly with abundant roots	0	3		
				191	10
COAL THREEQUARTERS FLOOR COAL	solid cores not fitting to roof and floor	0	3		
				192	1
Seatearth	mudstone brownish, listric, grey below 192/9	1	0		
	sharp			193	1
Siltstone	fine with lenticular sandstone laminae and layers and occasional slurry/load cast/ pouches layers; top 0/9 sandstone layer with abundant Stigmaria; bedding disturbed by roots to 195/0; possible worm burrows towards base and rare plant debris	6	10		
	sharp			199	11
Siltstone	medium with sandstone fine discontinuous inclined units with train drift and ripple drift in top 0/9	1	11		
				201	10
Sandstone	with siltstone coarse laminae variously gently inclined with abundant diastems and many micaceous planty planes	1	1		
				202	11
Siltstone	medium with sandstone fine discontinuous variously inclined layer with ripple drift	1	1		
				204	0
Sandstone	fine well cemented with rib and furrow	1	9		
				205	9
Siltstone	coarse with some sandstone fine even laminae and vague slurries to 207/2, sandstone disturbed layer in basal 0/2	1	7		
	Base of Borehole			207	4

BGS ID: 767513 : BGS Reference: SK47SW23
British National Grid (27700) : 444643,371333