Form P.70
(Series 610)

SK 47 SW/24

6-inch Map (County, Sheet and Qtr.)	B/H Regd.No
SK 47 SW (Nat. Grid, Sheet and Qtr.)	37

Attach tracing from a map or sketch map if possible

SECTION OF BOLSOVER NO. 16 UNDERGROUND D.B.

PURPOSE To prove First Piper, Tupton & Threequarters

EXACT SITE E 444323 N 370553 N.B. This Grid Ref D:ffers slightly from N.C.B Location Plan.

LEVEL AT WHICH shaft / bore / drift COMMENCED RELATIVE TO O.D. ~~8743.5 ft.~~ 8613.5ft (Tony Smith, Dep Area Geologist Sept 1987)

DATE OF SINKING OR BORING May - June 1970

SINKER OR BORER N.C.B. Boring Team

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

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Cores:			10	0
Siltstone	fine, muddy in parts; laminated; plants including strap plants	1	7	11	7
Siltstone	fine, with sandstone fine lenticular laminae and layers, slurry 12/4 to 13/0 and basal 0/10, ripple marks, load and pouch structures with crumpled bedding, worm burrows throughout	12	1	23	8
Sandstone	fine rib and furrow in top 0/4, small scale cross-bedded inclined units to 25/0 cank 25/0 to 26/5, dune set 26/5 to 27/2, slurry and crumpling 27/2 to base	4	9	28	5
Sandstone	fine, discontinuous, gently inclined laminae with diastems and abundant dark micaceous planty planes, well jointed with galena with silty laminae below 34/0	6	0	34	5
Siltstone	fine, vaguely laminated, rare sandy laminae to 35/8, several ironstone bands up to 0/1 thick	4	7	39	0
Mudstone,	unlaminated, wormy, distinctly wormy and slightly shaly below 42/5, rare ironstone bands up to 0/1 thick, single non-marine lamellibranchs at 45/4	6	6	45	6
* Mudstone	slightly shaly, wormy few ironstone nodules	2	0	47	6

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6FORM P.71
SERIES 680

6-INCH MAP	B/H

Section of BOLSOVER NO. 16 UNDERGROUND D.B.

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA		THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
					47	6
SEAM * FIRST PIPER	coal bright	0/10½				
	mudstone	0/0¼				
	coal bright	0/5				
	mudstone	0/1				
	coal bright	0/7½				
	dirty coal	0/2				
	coal bright	0/2¾				
	Seatearth, mudstone	0/3				
	coal bright	0/5½				
	Seatearth, mudstone	0/5				
	coal and dirt	1/0				
	coal	1/9½				
	Core recovery 100%					
	Thickness checked by good hand-timed graph		6	4		
					53	10
* Seatearth	mudstone with coal laminae listric surfaces		0	3		
					54	1
Core Lost			0	5		
					54	6
Seatearth	siltstone fine, abundant root nodules to 60/2 rooty, fragmented in top 0/8, muddy with coal streaks 58/11 to 59/0		7	1		
					61	7
Siltstone	fine, massive, some comminuted plant debris roots to 63/0, Calamites at 64/0 and occasionally below, ferns at 65/0 abundant plant fragments below 65/2, muddy vaguely wormy 68/10 to 69/3, minute plant debris below 69/3, irregular sandy laminae 72/2 to 72/4 and occasionally below, ferns at 77/7		20	10		
	sharp				82	5
Mudstone	shaly highly carbonaceous, abundant ostracods and fish and non-marine lamellibranchs		0	11		
					83	4
SEAM SECOND PIPER	Cannel (solid core)	0/9				
	Mudstone shaly, with few ostracods	0/4				
	Mudstone canneloid, with n.m.l.	0/2				
	Cannel (solid core)	0/2				
	Mudstone, shaly	0/4				
	Ironstone band	0/2				
	Mudstone with fish and phosphatic remains at base and ostracods	0/11				
	COAL, bright (complete)	0/5				
	Seatearth siltstone with large n.m.l dark	0/3				
	Ironstone band	0/3				
	Seatearth, mudstone listric	0/7				
	Ironstone band	0/3				
	Mudstone, several guillielmites	0/4				
	COAL Bright (Solid Core)	0/4				
	Seatearth, Mudstone	0/5				
	BAT	0/11	6	9		
					90	1

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FORM E/71
SERIES 680

6-INCH MAP	B/H

Section of BOLSOVER NO. 16 UNDERGROUND D.B.

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				90	1
Seatearth	siltstone fine, muddy	2	4		
				92	5
Siltstone	fine, with abundant sandstone fine, lenticular laminae and layers; layers at 93/4 to 94/3 and 96/10 to 97/3; root-disturbed to 95/0 occasional slurried up to 0/4 thick, several dark micaceous planty planes, ironstone band 0/2 thick at 99/8, dominantly sandstone 100/5 to base	9	0		
	sharp			101	5
Mudstone	silty in top 1/0, many ironstone bands up to 0/8 thick, unlaminated single complete non-marine lamellibranch near top	10	4		
				1119	1
Mudstone	shaly rare ostracods at top, dark abundant ostracods and thick 'shelly' ironstone bands below 112/8 and occasional coaly plants, abundant large thick non-marine lamellibranchs; grey occasional non-marine lamellibranchs below 115/3; more 'shelly' ironstone up to 0/3 thick 118/1 to 120/0 with layer of ostracods at top, slightly shaly from 120/0 to 122/4	10	7		
				122	4
Mudstone	highly carbonaceous, occasional coaly plants	1	7		
				123	11
COAL	Bright	0	1		
	complete core			124	0
BAT		0	8		
				124	8
Seatearth	siltstone fine, dark to 125/7, medium 125/7 to 126/11, fine below, ironstone band 0/2 thick at 128/5 muddy and immature below with several ironstone bands	6	2		
				130	10
Mudstone	slightly shaly, occasional roots with 0/2 ironstone band at base	2	0		
	sharp			132	10
Mudstone	shaly, darkish, with large non-marine lamellibranchs and ostracods at top few inches, occasional oblique listric surfaces, slightly carbonaceous below 133/3, distinctly shaly with ostracods, non-marine lamelli-branchs below 133/7 and fish to 134/6 shaly with abundant ostracods and many 'shelly' ironstone bands up to 0/3 thick, and occasional local listric surfaces below 134/6, slightly carbonaceous 142/0 to 142/6, 0/3 ironstone band at 142/6 with many large non-marine lamellibranchs, and 143/3 to base	11	3		
				144	1

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SERIES 680

6-INCH MAP	B/H

Section of BOLSOVER NO. 16 UNDERGROUND D.B.

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				144	1
* Mudstone	grey becoming darker to base; non-marine lamellibranchs fragments	0	10		
				144	11
SEAM: TUPTON					
Cockleshell	Coal 2/5 Seatearth mudstone coal laminae 0/7				
Low Tupton	Coal 0/4 Mudstone carbonaceous 0/1 Coal 0/11 Mudstone 0/3 Coal dirty 0/1½ Coal 2/6½				
	Core recovery 98%				
	Thickness checked by good hand-timed graph	7	3		
				152	2
* Seatearth	mudstone listric coal laminae	0	1		
				152	3
* Seatearth	mudstone listric becoming silty to base	0	10		
				153	1
Seatearth	siltstone coarse, sandy, brown, rooty, well cemented	0	4		
				153	4
Seatearth	sandstone well cemented, occasional root nodules, massive to 155/1, immature below	2	7		
				155	11
Sandstone	fine, abundant dark micaceous planty planes diastems and reasonably even bedded to 156/5, inclined micaceous planty planes with ripple drift at 151/1, vague ripple drift and train drift below 157/1, root disturbed in parts	3	4		
	sharp			159	3
Siltstone	medium with some sandstone fine lenticular laminae and abundant infilled worm burrows roots to 163/0 and occasional other plant fragments, Calamites at 163/11 and occasionally below	6	0		
				165	3
Sandstone	many wavy bedded diastems, many micaceous patches, ferruginous in bottom 0/4	3	0		
	sharp			168	3
Siltstone	fine, with little sandstone fine lenses and lenticular laminae, single sandstone layer 171/9 to 171/11 and many small worm burrows unlaminated and very wormy to 169/3, rare small slurries, rare sandy lenses below 175/0 and vaguely laminated and wormy, more occasional sandy lenses with worm burrows below 177/9, some irregular ironstone below 179/4, unlaminated barren in basal 0/7	2	4		
				180	7
* Mudstone	silty grey	0	8		
				181	3

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6-INCH MAP	B/H

Section of BOLSOVER NO.16 UNDERGROUND D.B.

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				181	3
* Mudstone	dark grey, slightly silty in top half; few plant remains	0	5		
				181	8
* SEAM THREEQUARTERS	Coal 2/11½ coal dirty 0/0½ Core recovery 97% Thickness checked by good hand-timed graph	3	0		
				184	8
* Seatearth	siltstone medium	0	4		
				185	0
* Seatearth	sandstone medium	0	7		
				185	7
Seatearth	immature siltstone coarse and sandstone interlaminated and root disturbed with dark micaceous planty planes, oblique coaly planes 187/2	1	9		
				187	4
	presumed sharp but some core lost				
Mudstone	slightly shaly abundant roots with local listric sirfaces, slightly carbonaceous below 188/9	2	2		
				189	6
COAL THREEQUARTERS F.C.	bright	0	3		
	solid core not fitting to base			198	9
Seatearth	siltstone fine, fragmented in top 0/7, medium and well cemented below 190/7	1	2		
				190	11
Sandstone	irregular laminated and disturbed by abundant roots	0	11		
				191	10
Siltstone	medium with some irregular sandstone laminae disturbed by roots	2	11		
				194	9
	Base of Borehole				

BGS ID: 767514 : BGS Reference: SK47SW24
British National Grid (27700) : 444323,370544

SK 47 SW 24