





SK 47 SE / 36

FORM P 70
SERIES 460

31 DEC 1974

Section of Woodside Surface Borehole
near Bolsover, Derbyshire

Purpose To prove the 1st and 2nd Waterloo Coal Seams

Exact Site N.G. Co-ords. E. 445893 metres

N. 372871 metres

near Bolsover Derbyshire

Level at which ^{shaft}bore commenced relative to O.D. ^{drift}+ 332.59 ft.

Date of sinking or boring 9th Nov., 1973 - 10th Feb., 1974

Sinker or borer Foraky Ltd., (W. McDonald)

Cores examined by P.K. Boam, Mine Geologist

8-INCH MAP	B/H REGD. NO.
(County, Sheet and Qtr.)	
SK 47 SE / 36	38
(Nat. Grid, Sheet & Qtr.)	
Attach tracing from a map or sketch map if possible	

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		W OF FT*	CM OF IN*	W OF FT*	CM OF IN*
<u>COAL MEASURES</u>	Interpretation of the open hole to 950 ft. from geophysical logs. (Prominent Sandstone and coals only)				
	Sandstone	10	0	10	0
	Sandstone	10	0	68	0
	Coal, dirty	2	0	79	0
	Sandstone	2	0	83	0
	? Coal, dirty, thin	-	-	107	0
	Sandstone	3	0	115	0
	Coal	4	6	182	6
	Sandstone	4	0	193	0
	Sandstone with siltstone	5	0	215	0
<u>CLOWNE</u>	Coal	1	6	241	6
	Sandstone with siltstone	11	0	281	0
	? coal and dirt	2	0	295	0
	Sandstone with siltstone	4	0	330	0
	Coal and dirt: C2=6, d1=6, c2=0	6	0	375	0
	Sandstone with siltstone	7	0	386	0
	Coal	3	0	415	0
	Coal and dirt thin	-	-	426	0
	Sandstone	5	0	448	0
	Coal	1	6	459	0
<u>SOUGH</u>	? coal, dirty, thin	-	-	489	0
	Sandstone	11	0	537	0
	Coal	3	0	557	0
	Sandstone with some siltstone	24	0	655	0
	Sandstone	3	0	693	0
	Coal, dirty	1	6	696	0
	Sandstone with more siltstone	13	0	732	0
	Coal	2	0	734	0
	Sandstone	4	0	772	0
	Sandstone	4	0	858	0
<u>LOW BRIGHT</u>	Coal	1	6	868	0
	Sandstone	3	0	873	0
	Sandstone	1	0	881	0
	Cores from 950 feet.				
<u>HIGH HAZLES</u>					
<u>?SECOND ST. JOHN'S</u>					

FORM P 71
SERIES 680

COMMERCIAL IN CONFIDENCE

8-INCH MAP	B/H
SK 47 SE	36

Section of Woodside Surface Borehole

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Start of cores			950	0
Siltstone	fine, laminated, muddy; abundant comminuted plant remains, some coaly; numerous oblique and vertical crinkled breaks	2	0		
	passage			952	0
Mudstone	dark, laminated; locally iron-rich; abundantly wormy, single non-marine lamelli-branch impression at 57/2, rare plant debris on bedding planes; numerous oblique crinkled breaks, many infilled with fragmented mud-stone	15	1½	967	1½
<u>TOP HARD GOAF :</u>					
	complete core				
	1. Coal and dirt fragmented and compacted; mostly bright and dull coal, clayey and soft in parts; sharp 2-8)				
	2. Coal, canneloid 0-6) cylinders				
	3. Coal, bright 0-11)				
	4-1				
	Geophysical logs indicate pore-space water in lower part	4	1		
				971	2½
Seat Earth	Mudstone dark, rooty, ironstone nodules	0	9½		
	passage			972	0
Seat Earth	Siltstone dark; rooty; ironstone nodules; occasional plants including Neuropteris, Alethopteris, Calamites	4	7		
	passage			976	7
Siltstone	fine to medium with rare thin sandstone fine laminae; abundant plants including Neuropteris; Alethopteris, Calamites; muddy 80/4 - 83/2; sharp	6	10		
				983	5
Siltstone	fine, laminated, with rare thin disconnected non-erosive lenticular sandstone ripple marks; plant debris along bedding planes, locally abundant	3	0		
	sharp			986	5
Mudstone	dark laminated, ironstone bands and small ironstone nodules; small thin shelled non-marine lamellibranchs, some with both valves, below 96/4	11	1		
	core attached			997	6
<u>COAL AND DIRT</u>					
	Cannel 0-2) complete				
	Dirt carbonaceous 0-2) solid				
	Coal, bright 0-2) core				
	0-6	0	6		
	core attached			998	0



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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				998	0
Seat Earth	Siltstone medium, sandy; connected lenticular ripple marks, numerous pouches and contorted bedding with much root disturbance; Stigmaria; no mine-water staining passage	3	1	1001	1
Siltstone	fine and sandstone fine; connected lenticular ripple marks and sets, small sandstone fine load casts; micaceous planty planes and comminuted plant debris along bedding; no mine-water staining sharp	2	6	1003	7
Sandstone	fine with rare discontinuous siltstone fine laminae small sandstone pouches at 05/2; gas heave structure at 04/0; no mine-water staining sharp	2	5	1006	0
Siltstone	fine and sandstone fine; variously inclined layers and laminae; numerous diastems, ripple drift and poorly defined "train" drift; micaceous planty planes and coaly plant debris along bedding; local iron-rich patches; no mine-water staining sharp	2	2	1008	2
Siltstone	fine with rare disconnected lenticular sandstone ripple marks; micaceous planty planes and coaly planty planes sharp	1	1	1009	3
Siltstone	fine and sandstone fine; variously inclined layers, "train" drift and ripple drift, micaceous planty planes	0	9	1010	0
Siltstone	fine laminated, thin rare sandstone fine laminae; vaguely wormy with rare tracks; no mine-water staining sharp	1	10	1011	10
Ironstone;	no mine water staining sharp	0	7	1012	5
Siltstone	fine, locally muddy water connected non-erosive sandstone fine ripple marks and rare sets; iron-rich layers up to 0/2 thick; small sandstone fine load casts at 21/11, siltstone medium slurried layer 17/4 to 17/8, rare micaceous planty planes and plant debris on bedding planes, rare small "strap" plants; no mine-water staining passage	10	11	1023	4



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		m or ft*	cm or in*	m or ft*	cm or in*
				1023	4
Mudstone	dark, laminated, listric; abundantly wormy, guillemites, Naiadites, some with attached Spirorbis below 26/2, dying out below 28/9 passage	9	3	1032	7
Mudstone	dark fissile; abundant Naiadites and Anthrocosia with Spirorbis, rare ostracods attached	0	3	1032	10
UNSL (Upper Leaf)	Bright coal 0/7; complete solid core attached	0	7	1033	5
Seat Earth	Mudstone grey, listric, rooty; ironstone nodules,	2	5	1035	10
Seat Earth	Siltstone grey rooty; ironstone nodules, Stigmara 40/2, rare fern leaves below 41/0 with "strap" plants passage	8	2	1044	0
Mudstone	slightly silty; vitrain lens at 44/10; abundant plant debris including fern leaves and "strap" plants	1	3	1045	3
	CORE BOXED 1045/3 - 1047/10½				
Mudstone,	light grey, several coaly plant remains	0	4	1045	7
BAT	interleaved mudstone and bright coal detached, fitting	0	1	1045	8
UNSL (L.L.)	Coal bright 1/0½ solid cores Coal, dirty 0/8½ fitting 1/9 Recovery 100%, Dip 3° detached fitting	1	9	1047	5
BAT	finely interleaved mudstone and bright coal	0	2	1047	7
Seat Earth,	mudstone brownish-grey many coalified plant remains	0	3½	1047	10½
Seat Earth	Siltstone fine, muddy, rooty; abundant ironstone nodules sharp	4	10½	1052	9



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Section of Woodside Surface Borehole

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				1052	9
Siltstone	fine with disconnected thin sandstone fine lenses; root disturbed	0	5	1053	2
Mudstone	dark laminated; occasional rootlets 53/2 to 55/6. wormy below 59/0 with guillemites, basal 0/2 fissile	9	3	1062	3
	attached				
<u>IRST WATERLOO</u>	Bright coal 0/5 complete Dirt 0/0+ solid Bright coal 0/1+ core	0	7	1063	0
	attached				
Seat Earth	Mudstone laminated, coaly with rootlets passage	1	6	1064	6
Seat Earth	Siltstone fine, sandy; Stigmaria, micaceous planty planes; vague ripple drift; passage	5	3	1069	9
Siltstone	fine with sandstone fine; gently inclined layers and laminae; ripple drift, diastems, small scour and fill pockets; micaceous planty planes and plant debris along bedding planes; basal 0/6 iron-rich	3	3	1073	0
	passage				
Sandstone	fine, well cemented, massive; rare coaly pockets and coaly plant debris, no mine- water staining	4	4	1077	4
	sharp				
Siltstone	medium and sandstone fine; rhythmic evenly bedded laminae; wormy with small tracks and rare sand filled cup-shaped burrows	1	10	1079	2
	sharp				
Sandstone	medium, well cemented, massive; rare coaly plant debris; no-mine water staining	2	10	1082	0
	sharp				
Siltstone	fine and sandstone fine; variously-inclined layers; abundant ripple drift and "train" drift, numerous diastems; planty debris with brown soft sediment pellets	1	8	1083	8
	sharp, erosive				
Sandstone	medium; linguoid ripple sets with micaceous planty planes, coaly planty planes and abundant soft sediment pellets; numerous fusain pockets 85/2 to 85/4	1	8	1085	4



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		m or ft*	cm or in*	m or ft*	cm or in*
				1085	4
Ironstone		0	2		
				1085	6
Siltstone	fine with small thin non-erosive lenticular sandstone ripple marks; planty bedding planes; siltstone slurry 88/2 to 88/6 with abundant plant debris; small sandstone fine pouches at 88/8	3	6		
	sharp			1089	0
Siltstone	medium and sandstone fine: variously inclined rippled units; diastems; numerous discontinuous siltstone laminae; abundant plant debris on bedding planes, often coaly	5	2		
				1094	2
Sandstone	medium with discontinuous siltstone laminae; abundant coaly debris, mainly fusainous; no mine-water staining	2	7		
	sharp			1096	9
	CORE BOXED 1096/9 - 1101/8				
Mudstone,	silty grey, darker towards the base	0	2½		
	detached, fitting			1096	11½
FIRST WATERLOO (MAIN LEAF)					
	Coal, mainly bright (1/7 solid core				
	(0/3 cylinder and fragments				
	(0/5 solid core				
	Dirt 0/0½)				
	Dirty coal and coal 0/5½)				
	Dirt 0/1½) solid core				
	Coal, bright 0/1½)				
	Dirt 0/2)				
	Dirty coal and coal 0/4½ cylinders and fragments				
	3/6½				
	Recovery 100% Dip 4°	3	6½		
	detached, fitting			1100	6
Seat Earth,	sandstone off-white, silty at top and base	1	2		
				1101	8
Seat Earth	Siltstone fine locally muddy, abundant roots and ironstone root nodules	5	0		
	passage			1106	8
Siltstone	fine, laminated, barren	2	1		
	sharp			1108	9
Mudstone	dark laminated	0	1		
				1108	10

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		m or ft*	cm or in*	m or ft*	cm or in*
				1108	10
<u>COAL</u>	Bright	0	1		
				1108	11
Seat Earth	Siltstone medium laminated immature; few rootlets and fern leaves passage	1	1	1110	0
Siltstone	fine to medium laminated; abundant strap plants and fern leaves sharp	1	7	1111	7
<u>EAT</u>		0	4	1111	11
Seat Earth	Mudstone grey highly listric; rooty	1	0	1112	11
Seat Earth	Siltstone fine; rooty, Stigmaria; abundant small ironstone root nodules sharp	1	9	1114	8
Siltstone	fine with sandstone fine disconnected lenticular ripple marks, pouches 15/0 - 15/4, crumpled bedding 19/2 to 19/11 with associated pouches, plants on bedding planes including Neuropteris sharp	5	3	1119	11
Sandstone	fine truncated linguoid ripple sets; micaceous planty planes and coaly planty planes with some fusain pockets sharp	1	5	1121	4
Siltstone	fine and sandstone fine highly contorted structure; large sandstone fine load casts and 50 degree slumped bedding, abundant plant debris sharp	1	6	1122	10
Siltstone	fine with rare thin sandstone fine scour and fill structures; planty bedding planes sharp	0	10	1123	8
Sandstone	fine truncated linguoid ripple sets, micaceous planty planes sharp	0	4	1124	0
Mudstone	grey laminated; ironstone bands up to 0/1 thick; wormy	2	4	1126	4
Ironstone		0	8	1127	0

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SK 47 SE / 36

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SERIES 680

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ONE INCH MAP

B/H

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		m or ft*	cm or in*	m or ft*	cm or in*
				1127	0
Mudstone	dark laminated; numerous thin ironstone bands; wormy, mollusc spat 28/4, <u>Anthracosia</u> sporadic below 28/6, <u>Naiadites</u> below 34/6, <u>Spirorbis</u> and fish debris 36/2 to 36/4, rare <u>guilielmites</u>	11	8		
	passage			1138	8
Mudstone	dark fissile listric; abundant <u>Naiadites</u> some pyritised, locally crowded, <u>Anthracosia</u> , <u>Spirorbis</u> , fish debris at several horizons, fucoids; abundant ironstone nodules	3	2	1141	10
<u>MARKHAM</u>	Coal bright 0/8				
	Coal bright 0/8 part core and fragments				
	1/4	1	4	1143	2
Seat Earth	Mudstone highly listric with coaly laminae sharp	1	2	1144	4
Siltstone	fine and sandstone fine connected lenticular non-erosive ripple marks and sets; crumpled bedding 46/0 - 46/10, sandstone fine slurry with ironstone 47/1 to 48/0, large load casts 48/0 to 48/6 and 51/9 to 52/2, small load and pouch structures 50/3 to 50/6, comminuted plant debris along bedding planes sharp	7	10	1152	2
Siltstone	fine laminated; small sandstone fine pouches 55/2 to 55/8; large sandstone fine pouches and contorted bedding 59/2 to 60/0; iron-rich layers; comminuted plant debris along bedding planes; vaguely wormy below 64/0 sharp	13	7	1165	9
Mudstone	dark laminated listric abundantly wormy <u>Anthracosia</u> , rare small strap plants	5	10	1171	1
Ironstone		0	4	1171	11
Mudstone	dark fissile; <u>Anthracosia</u> , locally abundant, ostracods 72/6, 75/5, <u>Spirorbis</u> 74/5 and sporadically below, <u>guilielmites</u> , fucoids, carbonaceous 76/1 to base with fish debris and thin wormy ironstones	5	6	1177	5



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		m or ft*	cm or in*	m or ft*	cm or in*
				1177	5
	CORE BOXED 1177/5 - 1186/10½				
Mudstone,	canneloid, ferruginous in bottom 0/1 detached, fitting	0	3½	1177	8½
SECOND WATERLOO	Cannel, dirty 0/3½) Dirt and coal 0/2) Coal, mainly bright 2/0) Coal, dirty 0/1) Dirt 2/8½) Cannel, dirty 0/1) fitting solid cores Cannel 0/3) Coal, bright 0/8½) Dirt 0/4) Coal, bright 1/5½) Coal, dirty 0/1½) 8/2½				
	Recovery 100%, Dip 2°	8	2½	1185	11
Seat Earth	Mudstone light grey, listric	0	6	1186	5
Seat Earth	siltstone light grey	0	5½	1186	10½
Seat Earth	Siltstone fine sandy, root disturbed with ironstone nodules	1	2½	1188	1
Seat Earth	sharp Siltstone medium rooty, occasional small plants, rare ironstone nodules	7	3	1195	4
Siltstone	sharp fine and sandstone fine discontinuous lenticular ripple marks, sandstone fine pouches 99/2 - 99/6 siltstone dominant below 1203/0 and locally muddy plant debris along bedding planes; iron rich layers	11	6	1206	10
	Base of hole				

