

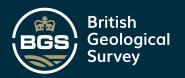
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Clowne

: 60

coal 138 at 57-58

base of hole at 60.80 m



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SK 47 56/72

Section of:

MARKHAM COLLIERY, No. 9 Borehole

for proposed surface drift

Purpose:

Site investigation

(Nat. Grid, Sheet & Qtr.) B/H REG. NO.

Exact Site:

E.445194.6

N.372235.0

SK47SE 54J

Level at which bore commenced relative to O.D. + 66.86m.

Date of Drilling: 20.3.85 to 29.3.85

Driller: Soil Mechanics Ltd.,

Core examined by J.H. Rippon, N.C.B. Geologist

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m cm		DE: m	PTH CM
	See also the geological log by Soil Mechanics Ltd. This hole wa logged geophysically by B.P.S. Instruments Ltd. Open hole to 20.00 m.	<u>S</u>			BC
	Record from driller's description chippings and B.P.B. geophysical		· ·	. 0	00
ADE GROUND	Colliery fill, grey shale	4	00	4	00
(B)	Colliery fill, red shale	4	70	8	70
LLUVIUM	Clay, brown and grey	0	80	9	50
COAL MEASURES	Siltstones (geophysical logs; driller reports weathered grey mudstones)	9	50	19	00
	Sandstone	1	00	20	00



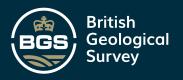
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	Cores from 20.00 m.		
Sandstone	fine, with small coal streaks and clasts, dipping about 50°, in top 0.13; abundant coal streaks, fragmented core below 20.13 m.	0 45	
			20 45
COAL	mostly bright with some dull bands up to 0.01 thick; fusainous; core fragmented; geophysical logs indicate coal 0.30 to 0.40 at about		
	20.80 m.	0 35	20 80
Seatearth:			
Mudstone	grey; small polished surfaces; silty in parts below 22.00 m with small ironstone nodules; abundant		
	roots; core partly fragmented	1 72	22 52
Siltstone	fine, with fine sandstone lenses		
	and layers; bedding disturbed by rootlets and ironstone nodules passage	0 25	22 77
Siltstone	muddy; some rootlets and small ironstone nodules	0 61	23 38
Sandstone	dune bedded with ironstone-rich patches near the top	0 60	23 98
	passage		
Siltstone	fine, with fine sandstone lenses and layers near the top	0 57	24 55
Sandstone	fine, and fine siltstone (50:50), interlaminated and interlayered; small sandstone ripples; small sandstone-filled burrows in parts; bedding dipping about 150	0 60	
	passage		25 15
Siltstone	fine, with fine sandstone laminae	0 40	
	(80:20)	U 40	25 55
	passage		



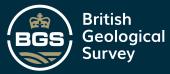
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	Siltstone	fine, poorly laminated; common				
		plant remains in parts; becoming muddy towards the base passage	2	10	27	65
	Mudstone	silty; poorly laminated; local plant debris near the top; less silty below about 30.50 m, with vague wormy traces  passage	3	00	30	65
	Mudstone	silty in parts near the top; wormy in parts; weak; 0.03 ironstone at the base	2	00	32	65
	Mudstone	very carbonaceous near the top, less so below about 33.00 m; Planolites cf. ophthalmoides abundant near the top; 0.05			32	03
		ironstone band at 33.53 m.	0	90	33	55
65)	COAL	bright; fragments; geophysical logs indicate coal approximately 0.20	0	20	33	75
	Seatearth: Siltstone	fine, grey, vague sandstone patches	•			
	Pilescone	rootlets  passage	O O	45	34	20
	Siltstone	fine with sandstone ripples and rippled layers, abundant micaceous carbonaceous planes; small ironston nodules	e 0	15	34	35
		passage				
	Siltstone	coarse with abundant plant debris; slurried appearance	0	20	. 34	55
	Siltstone	fine, with fine sandstone (60:40) interlaminated; small sandstone ripples, some with erosional bases passage	1	05	35	60



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	35)			•
Siltstone	fine; laminated; some sandstone laminae in the top 0.15 and in the basal 0.10	0 60	36	20
Sandstone	large linguoid ripple sets with occasional siltstone laminae	0 60	36	80
Siltstone	<pre>fine with fine sandstone (70:30); common sandstone ripples and laminae in parts    passage</pre>	0 60	37	40
Siltstone	fine; laminated; rare sandstone lenses and laminae; local plant debris passage	1 70	39	10
Siltstone	fine, poorly laminated	0 95	40	05
Mudstone	passage silty in parts; poorly laminated	4 08	44	13
Mudstone	carbonaceous near the top, less so downwards; shaly; occasional large thin-shelled mussels	0 53	44	66
Seatearth:-				
Siltstone	fine, muddy in parts including near the top; dark brownish-grey; abundant small polished surfaces; abundant sphaerosiderite near the base passage	1 04	45	70
Mudstone	silty, brown; abundant sphaerosiderite sharp	0 40	46	10
Mudstone	silty, dark grey; reworked texture passage	e 0 30 ·	46	40
Siltstone	muddy, grey; common roots and small ironstone nodules	1 37	47	77
Sandstone	irregular ripples with some siltstone laminae sharp	0 48	48	25 -



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	Siltstone	fine, laminated passage	0 0	.5	48	30
	Mudstone	silty near the top, laminated; thin ironstone bands; wormy	3 2	0	51	50
		rapid passage				
	Mudstone	shaly, carbonaceous; large siderite-infilled mussels in parts, locally common compressed <u>Anthracos</u> wormy at 51.80 m; silty in basal	ia;			
		0.35	1 9	00	53	40
	Mudstone	silty near the top with abundant mussels and ostracods; fauna decreasing downwards passage	0 8	15	54	25
	Mudstone	shaly, carbonaceous; local pyritise Anthracosia and pyritised plant debris passage		35	54	60
	Mudstone	shaly, carbonaceous; occasional pyritised plant debris	1 !	54	56	14
	Mudstone	canneloid; abundant pyritised plant debris	0 (	06	56	20
		fitting				
	CLOWNE	coal, mostly bright (cylinders) attached	1 3	<u>8</u>	57	58
	Seatearth:					
	Mudstone	silty, brown-grey; core fragmented in parts	0	07	57	65
	Siltstone	fine, light brown; occasional rootlets	0 3	20	57	85
	Siltstone	<pre>very coarse; grey, well-cemented; occasional rootlets</pre>	0	55	58	40



	Siltstone	fine, and fine sandstone (60:40) irregular ripples; bedding disturbed by rootlets and a few ironstone nodules  passage	SH 47 SE/72 0 65	59 05
	Sandstone	fine, with fine siltstone (80:20) abundant sandstone ripples; local siltstone-dominant layers with more irregular sandstone ripples; beddin near the top distorted by rootlets and ironstone nodules	g 1 13	60 18
	Siltstone	fine with occasional sandstone laminae passage	0 30	60 48
	Siltstone	medium and sandstone (50:50), interlaminated; large slump structures	0 32 +	60 80
	JHR/1169R/PH	Base of hole at 60.80 m		
(BCS)				