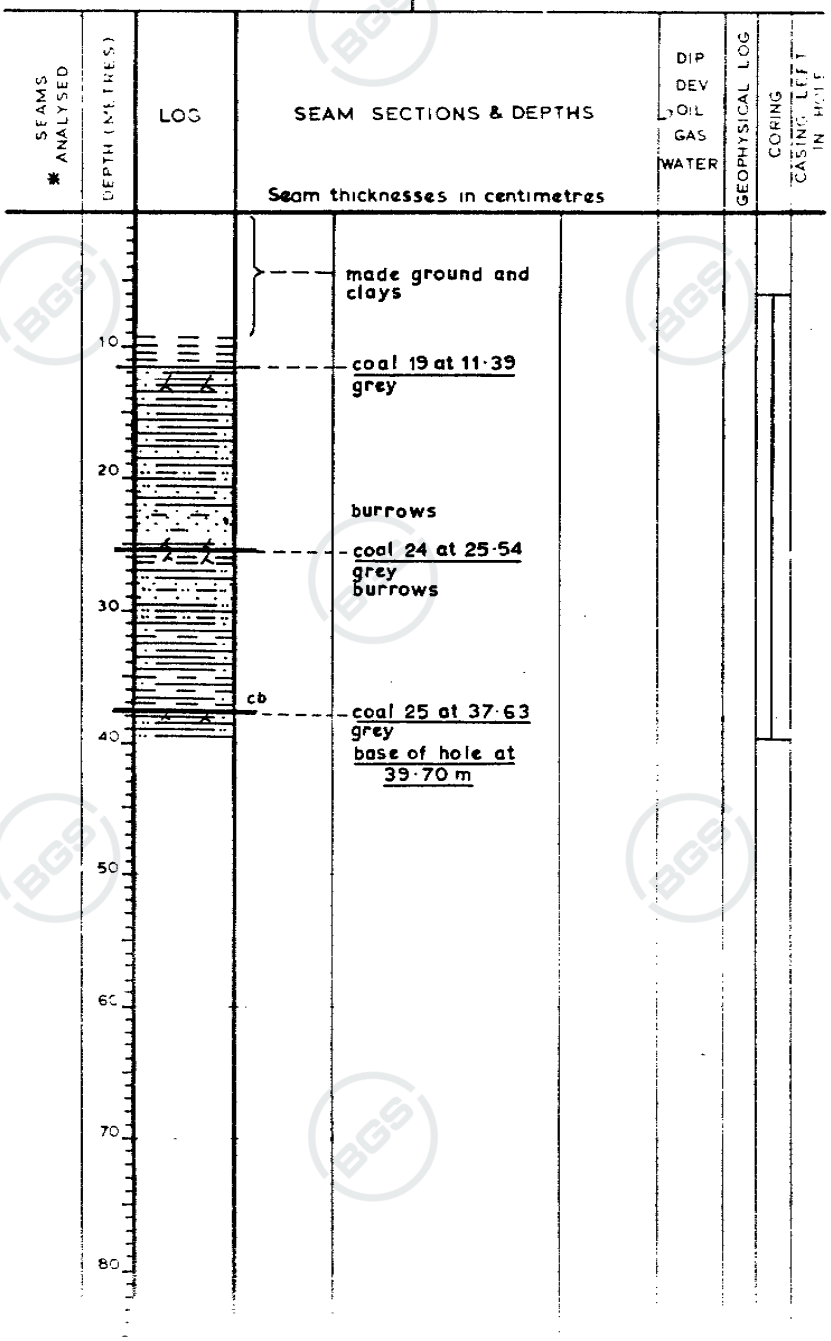
54C SK 47 SE/66 54C

MARKHAM COLLIERY

Borehole 3 for proposed surface drift (1985)

E 445184·6 m
N 372183·1 m

DATE 1985
STARTING LEVEL + 67·11 m O.D.



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Section of: MARKHAM COLLIERY, Borehole No. 3
for proposed surface drift (1985)

Purpose: Site investigation

(Nat. Grid, Sheet & Qtr.)	B/H REG. NO.
SK47SE	54C

Exact Site: E.445184.6
N.372183.1

Level at which bore commenced relative to O.D. + 67.11m.

Date of drilling: 14.3.85 to 18.3.85

Driller: Soil Mechanics Ltd.

Cores examined by D.J.Green, N.C.B. Geologist

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m	THICKNESS cm	DEPTH m	DEPTH cm
	See also the geotechnical log by Soil Mechanics Ltd. Open hole to 6.00 m.				
MADE GROUND	fill, grey	4	50	4	50
	fill, red	1	50	6	00
	Cores from 6.00 m				
	fill, red	2	00	8	00
(approx. boundary) ALLUVIUM	clay, firm to friable brown/yellow/grey mottled, inclusions of subrounded sandstone, mudstone and ironstone (0.60 recov.)	1	20	9	20
(approx. boundary)					

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COAL MEASURES					
Mudstone	dark, laminated; highly weathered (100% recovery)	0	80	10	00
Mudstone	locally silty; laminated; highly weathered	1	20	11	20
	detached				
COAL	Coal, bright 3(cylinder) Coal, mainly bright 16(fragments) detached	0	19	11	39
Seatearth:					
Siltstone	fine; grey; core dry and completely powdered	1	70	13	09
Core lost		0	31	13	40
Siltstone	fine, locally muddy; unlaminated, occasional small, irregular polished surfaces near the top, common roots	0	60	14	00
Siltstone	fine, laminated; occasional thin ironstone bands	0	93	14	93
Sandstone	fine	0	17	15	10
Siltstone	fine, laminated; weathered	0	30	15	40
Siltstone	fine to medium; locally weathered	2	40	17	80
Sandstone	fine; common comminuted plant debris	0	22	18	02
Siltstone	fine with common sandstone fine laminae (80:20); occasional thin ironstone bands	0	53	18	55

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Sandstone	fine with common siltstone fine laminae(80:20); common micaceous carbonaceous planes, locally ripple bedded, common comminuted plant debris	0	35	18	90
Siltstone	fine to medium	0	12	19	02
Sandstone	fine with occasional diffuse siltstone fine laminae (80:20) common micaceous carbonaceous planes; ripple bedded	0	30	19	32
Siltstone	fine and sandstone fine, irregularly interlaminated and interlayered.	0	62	19	94
Siltstone	fine, laminated	0	18	20	12
Sandstone	fine with occasional discontinuous micaceous carbonaceous planes	0	09	20	21
Siltstone	fine to medium with common irregular sandstone fine laminae (70:30)	0	70	20	91
Sandstone	fine with occasional discontinuous micaceous carbonaceous planes	0	09	21	00
Siltstone	fine with common sandstone fine laminae and thin layers (70:30)	0	20	21	20
Core lost		0	70	21	90
Siltstone	fine, laminated	0	15	22	05
Sandstone	fine	0	05	22	10

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Siltstone	fine and sandstone fine (50:50); interlayered	0	27	22	37
Sandstone	fine with occasional thin siltstone fine layers (80:20)	0	64	23	01
Siltstone	fine, muddy, soft	0	19	23	20
Siltstone	fine and sandstone fine (50:50); interlaminated; common micaceous carbonaceous planes	0	09	23	29
Sandstone	fine to medium; occasional micaceous carbonaceous planes	0	40	23	69
Sandstone	fine with common siltstone fine laminae (60:40); occasional ironstone lenses; common small sand-filled burrows	0	38	24	07
Sandstone	fine to medium; occasional irregular discontinuous micaceous carbonaceous planes	0	28	24	35
Core lost		0	45	24	80
Seatearth					
Siltstone	fine, muddy, grey, unlaminated, common small ironstone nodules	0	10	24	90
Mudstone	silty; grey; unlaminated; occasional small polished surfaces; common roots	0	40	25	30
	detached				
COAL	Coal bright 8 (fragments) Coal bright 3 (cylinder) Coal bright 8 (broken cyls. & fragments) Coal bright 5 (cylinder)				
	detached	0	24	25	54

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Core lost		0	30	25	84
Seatearth:					
Mudstone	dark grey; few coal fragments; core completely fragmented	0	18	26	02
Mudstone	grey; core completely fragmented	0	10	26	12
Siltstone	fine, muddy; grey; unlaminated; occasional polished surfaces common roots	0	34	26	46
Mudstone	silty; grey	0	10	26	56
Siltstone	fine with occasional sandstone fine laminae and thin layers (70:30)	1	15	27	71
Sandstone	fine to medium	0	44	28	15
Siltstone	fine and sandstone fine (50:50) interlaminated; common sandstone fine lenses in basal 0.05	0	38	28	53
Sandstone	fine with occasional discontinuous micaceous carbonaceous planes; occasional siltstone fine laminae in basal 0.05	0	62	29	15
Siltstone	fine with common sandstone fine laminae and thin layers (60:40); locally common sand filled burrows	0	58	29	73

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				29	73
Sandstone	fine with occasional siltstone fine laminae (80:20); common micaceous carbonaceous planes common burrows	0	46	30	19
Siltstone	fine and sandstone fine (50:50) interlaminated and interlayered	0	60	30	79
Siltstone	fine, laminated; occasional thin ironstone bands	0	86	31	65
Mudstone	locally silty, laminated passage	0	70	32	35
Siltstone	fine, locally muddy; laminated passage	2	40	34	75
Mudstone	silty, laminated	1	75	36	50
Mudstone	highly carbonaceous, shaly	0	20	36	70
Core lost		0	30	37	00
Mudstone	highly carbonaceous; shaly	0	38	37	38
	detached				
COAL	mainly bright (fragments) detached	0	25	37	63
Seatearth:					
Mudstone	dark grey; common small irregular polished surfaces, core completely fragmented	0	18	37	81
Siltstone	medium with occasional sandstone fine laminae and thin layers	0	18	37	99

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Siltstone	fine to medium; occasional small ironstone nodules	0	38	38	37
Siltstone	fine to medium with occasional diffuse sandstone fine laminae and lenses; occasional thin ironstone bands	1	20+	39	57
Core lost		0	13		

Base of hole at 39.70 m

Photographs of the cores are available in the report by Soil Mechanics Ltd. on the proposed Markham Colliery surface drift (1985).

JR/0115r/PH