BGS ID: 767550 : BGS Reference: SK47SW59
British National Grid (27700) : 444922,371939

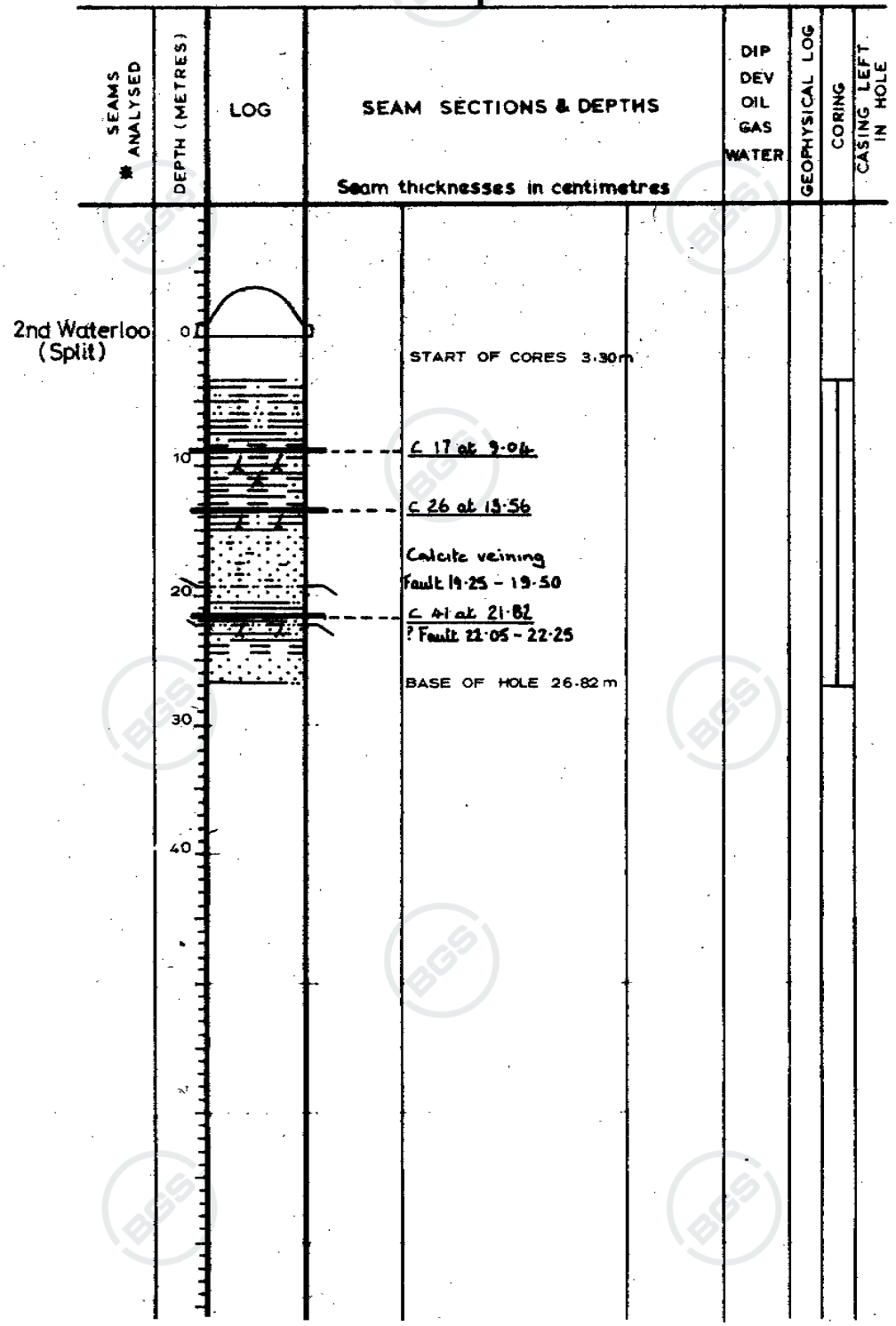
SK 47 SW 59

66	SK 47 SW	66

MARKHAM COLLIERY
No 24 Underground Borehole

E 444913
N 371 923

DATE SEPT. 1986
STARTING LEVEL – 297.2 m



SK 47 SW 59

Section of: Markham Colliery No. 24 (Downbore)
(2nd Waterloo L30's Inset)

Purpose: Geotechnical

(Nat. Grid, Sheet & Qtr.)	B/H REG. NO.
SK 47 SW	66

Exact Site: E 444913
N 371923

Level at which bore commenced relative to O.D. -297.2m.

Date of Drilling: September 1986

Driller: N. Derbys Area Boring Team
Core logged by D. J. Green,
B.C. Geologist

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m	THICKNESS cm	DEPTH m	DEPTH cm
	START OF CORES			3	30
Siltstone	fine to medium; laminated, moderately strong	0	64+	3	94
Siltstone	medium to coarse; poorly laminated; rare plant remains, strong	0	11	4	05
Siltstone	coarse with occasional sandstone fine laminae and lenses; locally common, small load and pouch structures, strong passage	0	50	4	55
Siltstone	medium with rare wispy thin sandstone fine laminae; moderately strong sharp	0	75	5	30
Sandstone	fine with common siltstone fine laminae 80:20: common micaceous carbonaceous planes; common load and pouch structures; strong	0	52	5	82

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Siltstone	medium and sandstone fine 50:50; large load and pouch structures throughout; strong	0	28	6	10
Siltstone	medium with rare wispy thin sandstone fine laminae and micro lenses; highly uneven sub-vertical unmineralised joint 6.43 - 7.02; moderately strong	1	03	7	13
Siltstone	fine, locally muddy; laminated; moderately weak to moderately strong	1	01	8	14
Mudstone	laminated; common slip marks; common non-marine lamellibranchs; weak	0	73	8	87
	detached				
Coal	mainly bright - cylinders	0	17		
	detached			9	04
SEATEARTH					
Mudstone	carbonaceous; unlaminated; common irregular polished surfaces; common roots; weak	0	03	9	07
Mudstone	grey; unlaminated; common irregular polished surfaces; common roots; weak	0	69	9	76
Siltstone	fine; grey; unlaminated; common roots; moderately weak	0	94	10	70
Mudstone	locally silty; laminated; occasional roots; weak	0	50		
	passage			11	20
Mudstone	silty; dark; laminated; occasional ironstone bands; common root slip marks; weak	0	42	11	62
Mudstone	silty; laminated; rare roots; weak - moderately weak	0	38		
	passage			12	00
Siltstone	fine laminated; moderately weak	0	70		
	passage			12	70
Mudstone	silty; laminated; weak	0	32	13	02
Mudstone	highly carbonaceous; shaly; weak	0	10	13	12
Mudstone	laminated; common worm tracks; weak	0	18	13	30
	detached				

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Coal	mainly bright (broken cylinders and fragments)	0	26		
	detached			13	56
SEATEARTH					
Mudstone	grey; unlaminated; common irregular polished surfaces; common roots; weak	0	19		
				13	75
Siltstone	coarse to medium; unlaminated; common roots; strong	0	40		
				14	15
Siltstone	medium, becoming fine towards the base; unlaminated; common roots; moderately strong	0	50		
				14	65
Mudstone	dark; laminated; common coalified plant remains including Lepidodendron; weak	0	17		
				14	82
SEATEARTH					
Siltstone	fine; grey; unlaminated; common roots; moderately weak	0	28		
				15	10
Mudstone	silty; grey; unlaminated; common irregular polished surfaces; weak	0	34		
				15	44
Sandstone	fine with common siltstone fine laminae and lenses 80:20 locally 70:30; occasional ripple s and minor erosional surfaces; common micaceous carbonaceous planes; common calcite-infilled fractures from 18.65 - 19.12; faultlets; strong	3	81		
				19	25
FAULT GOUGE	highly fractured and contorted core lithology similar to above	0	25		
				19	50
Sandstone	fine; common micaceous carbonaceous planes; occasional faultlets, occasional ripples and minor erosional surfaces; strong	0	69		
				20	19
Siltstone	fine with occasional sandstone fine laminae and lenses 70:30 becoming 80:20 towards the base; moderately strong	0	94		
				21	13
Ironstone	strong	0	04		
				21	17
Mudstone	silty; poorly laminated; common irregular polished surfaces; weak	0	24		
				21	41
	detached				
Coal	mainly bright (cylinders)	0	41		
	detached-fitting			21	82

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Mudstone	carbonaceous; laminated; common small coaly patches; weak	0	03	21	85
SEATEARTH					
Siltstone	fine; dark grey; unlaminated; occasional roots; moderately strong - moderately weak	0	20	22	05
Siltstone	fine; highly fractured and polished - possible FAULT	0	20	22	25
Sandstone	fine; unlaminated common roots; strong	0	36	22	61
Siltstone	fine to medium; grey; poorly laminated; common roots; moderately strong	1	27	23	88
Mudstone	laminated; occasional thin ironstone bands; weak	0	63	24	51
Sandstone	fine to medium; common micaceous carbonaceous planes to 24.90; fairly massive below; common ripple and minor erosional surfaces rear the top; strong to very strong	2	16	26	67
Siltstone	fine with occasional sandstone laminae 80:20; occasional ironstone bands; moderately strong	0	15+		
	BASE OF BOREHOLE			26	82

AS/1118G/CAC