



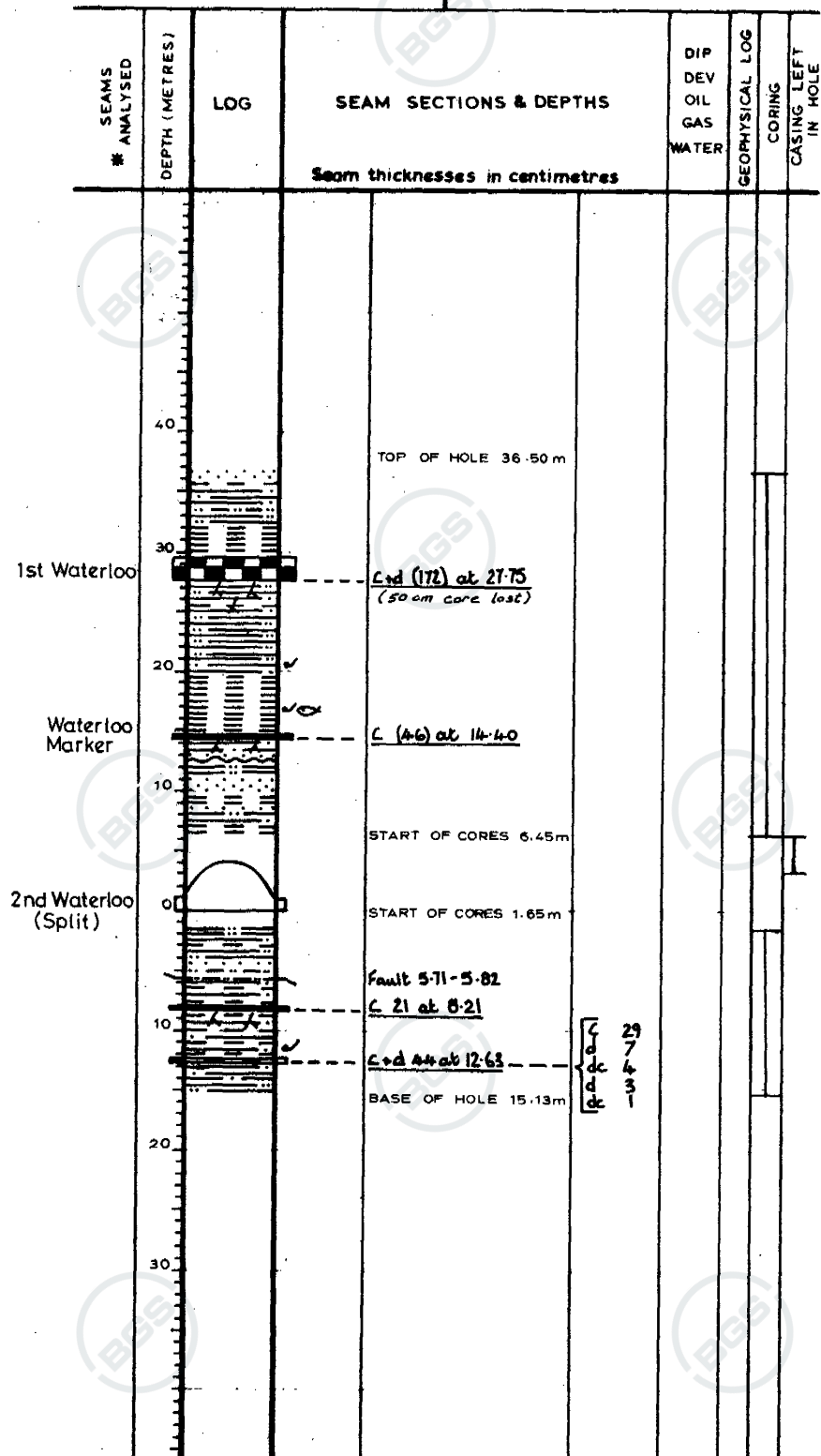
SK 47 SW 60-61

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MARKHAM COLLIERY
No 23 Underground Upbore & Downbore
60 61

E 444 916
N. 371 938

DATE JULY - AUGUST 1986
STARTING LEVEL - 297.3 m





SK 47 SW 60

Section of: Markham No. 23 (Upbore)
(2nd Waterloo L30s Inset)

Purpose: Geotechnical

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

Exact Site: E 444916
N 371938

SK47SW

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Level at which bore commenced relative to
O.D. -297.3m.
(Floor level)

Date of Drilling: August 1986

Borer: Area Boring Team
Cores Logged by D.J. Green & R.E. Brown

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		HEIGHT	
		m	cm	m	cm
	TOP OF HOLE 36.50 m			36	50
Sandstone	fine with occasional siltstone fine laminae 90:10; common micaceous carbonaceous planes; near-vertical, locally calcite-filled joint throughout; strong	0	59+	35	91
Mudstone	silty laminated; moderately weak	0	81	35	10
Siltstone	fine, laminated; moderately strong	1	34	33	76
Siltstone	fine and sandstone fine interlaminated and interlensed, common micaceous carbonaceous planes; moderately strong	0	36	33	40
Sandstone	fine with occasional highly distorted micaceous carbonaceous planes; large load and pouch structures; strong	0	16	33	24
Siltstone	fine with occasional wispy thin sandstone fine laminae; moderately strong	0	96	32	28

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Mudstone	silty laminated; occasional thin ironstone bands; locally common worm tracks; moderately weak	0	68	31	60
Mudstone	laminated; locally common worm tracks; moderately weak detached	2	13	29	47
<u>FIRST WATERLOO SEAM</u>	Coal and dirt (part cylinders and fragments) 50 cm of core lost	(1	72)	27	75
SEATEARTH					
Siltstone	fine with occasional vague sandstone fine lenses; common roots; moderately strong	1	66	26	09
Siltstone	fine; unlaminated; grey; common roots; moderately strong	0	28	25	81
Mudstone	silty; unlaminated; grey; occasional coal streaks; common roots; weak	0	31	25	50
Siltstone	fine to medium; grey; occasional ironstone bands; occasional roots; moderately weak	0	75	24	75
Siltstone	fine with occasional sandstone fine laminae and small lenses 80:20; local small load and pouch structures; moderately strong to strong	2	73	22	02
Siltstone	fine common sandstone fine microlenses 90:10; local small load and pouch structures 21.89 - 21.96; strong	1	12	20	90
Siltstone	fine; laminated; occasional ironstone bands; rare non-marine lamellibranchs; moderately strong	1	00	19	90
Mudstone	silty; laminated; rare non-marine lamellibranchs; moderately weak	0	15	19	75

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Mudstone	laminated; occasional ironstone bands; occasional slip marks; locally common worm tracks; common non-marine lamellibranchs; occasional fish scales; moderately weak passage	4	55	15	20
Mudstone	laminated; dark; locally carbonaceous; common non-marine lamellibranchs; weak detached	0	34	14	86
<u>WATERLOO MARKER</u>	Coal, mainly bright 0.07 (broken cylinders)				
	Drillers report 39 cm lost cost	(0	46)	14	40
SEATEARTH					
Mudstone	slightly carbonaceous; common irregular polished surfaces; common roots; weak	0	15	14	25
Siltstone	fine; unlaminated; grey; occasional ironstone nodules; common roots; moderately weak	0	25	14	00
Mudstone	laminated; occasional ironstone bands; abundant plant remains, some coalified; weak	0	14	13	86
<u>SEATEARTH</u>					
Mudstone	silty, poorly laminated; occasional polished surfaces; occasional ironstone nodules; common roots; weak	0	15	13	71
Siltstone	medium; unlaminated; common roots; strong to moderately strong	0	37	13	34
Sandstone	fine with common siltstone fine laminae; common micaceous carbonaceous planes; occasional roots near the top; strong	0	27	13	07
Sandstone	fine; common micaceous carbonaceous planes; dune sets; strong erosional	0	64	12	43
Mudstone	laminated; occasional irregular ironstone nodules; moderately weak	0	24	12	19

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Siltstone	medium with common irregular sandstone fine layers; load and pouch structures throughout; strong	0	83	11	36
Sandstone	fine to medium; occasional discontinuous micaceous carbonaceous planes; strong	0	07	11	29
Siltstone	fine with common sandstone fine laminae 60:40; ripple bedded; occasional minor erosional surfaces; common micaceous carbonaceous planes; moderately strong to strong	0	26	11	03
Sandstone	fine to medium; common micaceous carbonaceous planes; load and pouch structures 10.70 - 11.03; locally developed vague ripples; strong	1	39	9	64
Siltstone	fine; laminated; moderately strong	0	05	9	59
Ironstone	strong	0	05	9	54
Mudstone	silty, laminated; occasional ironstone nodules; occasional worm tracks; moderately weak	0	49	9	05
Sandstone	fine with common thin siltstone fine laminae; common ripples; occasional minor erosional surfaces; common micaceous carbonaceous planes; strong passage	0	70	8	35
Siltstone	medium with common sandstone fine laminae 70:30; common micaceous carbonaceous planes; strong	0	50	7	85
Siltstone	fine; poorly laminated; moderately strong	0	40	7	45
Mudstone	laminated; occasional polished bedding planes; occasional thin ironstone bands; weak. Strong ironstone bands 0.04 at 6.97 and 0.08 at 7.22	1	00+	6	45
START OF CORES 6.45					

TS/1014G/JC