

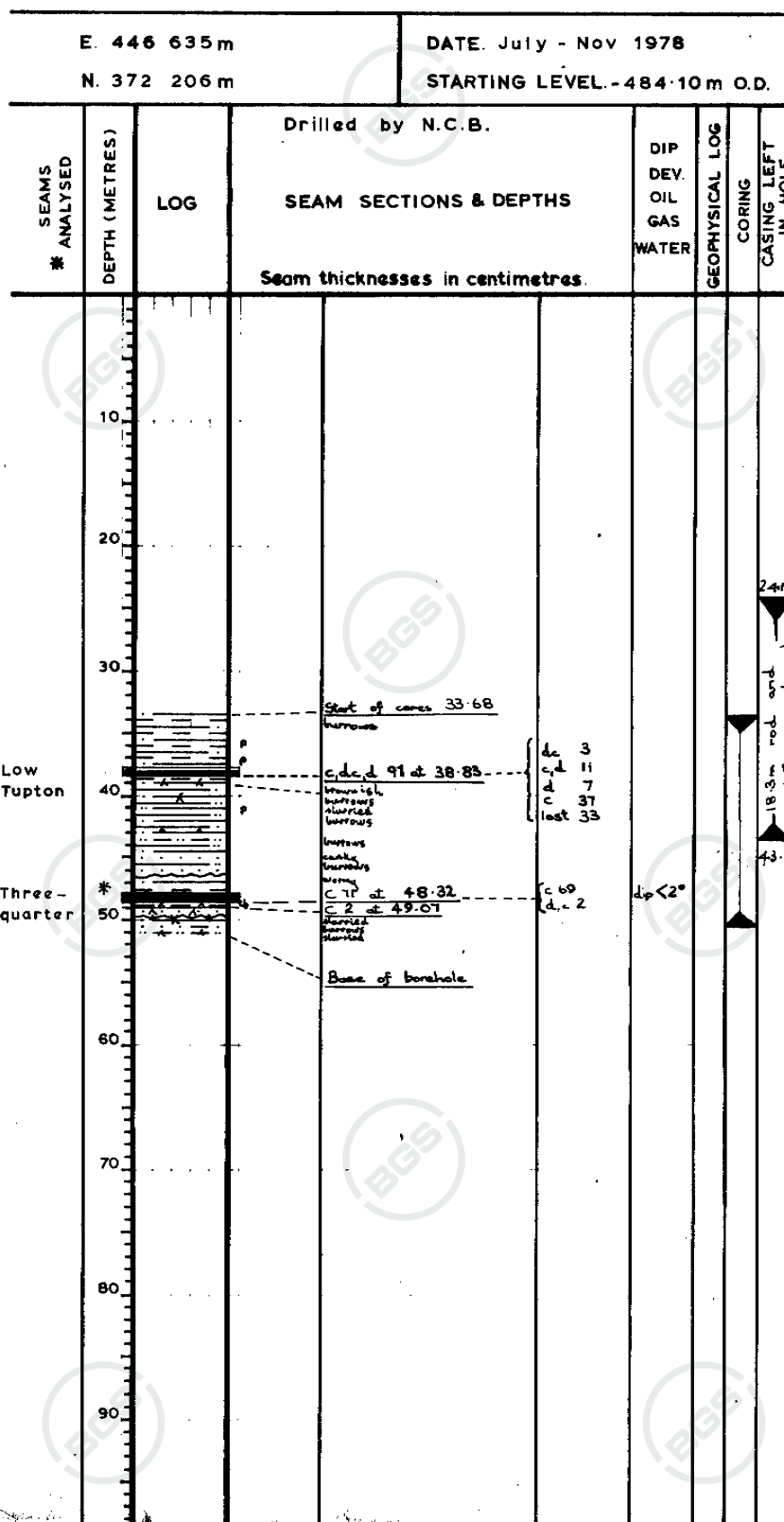


-- APR 1979

48	SK 47 SE /55	48
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MARKHAM COLLIERY No.13 (1st. Piper L.21's M.G.)

UNDERGROUND DOWNBORE





Form P 70
Series 680

10 APR 1977

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Section of MARKHAM COLLIERY 1ST PIPER

L 21'S MG UG NO 13 DOWNBORE

Purpose To prove the Threequarter Seam.

Exact Site National Grid Co-ordinates

E446 635 metres

N372 206 metres

Level at which bore commenced relative to O.D. -484.1 m

Date of sinking or boring July - November 1978

Borers. NCB North Derbyshire Area Drilling Team.

Borer in charge. Mr B Ward

Cores examined by Mr J A Smith, NCB Geologist.

8-INCH MAP	B/H REGD. No.
SK 47SE (County, Sheet and Qtr.)	55
SK47SE (Nat. Grid, Sheet & Qtr.)	45 A9

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Extract from				
	Borehole Data and History :-				
	Depth, m		Dia of core, mm		Dia of hole, mm
	0 - 30.94		open hole 76		76
	30.94 - 43.95		5 ft barrel 66		76
	43.95 - 51.20		5 ft barrel 66		76
	Drilling Difficulties :				
	Rods fast in first hole at 43.95, tried to overdrill with NX casing but only cut through drill rods. After several weeks work, abandoned No 1 hole and moved over 0.46 metre, open holed to 44 metre, then cored to base at 51.20 metre.				
	Method of Sealing off Borehole:-				
	No 1 borehole sealed with 5 bags of shallow oil well cement mixed with 25 gallons of water (18.3 metres ET/A rod and 1.5 metres core barrel cemented in).				
	No 2 borehole 5 bags shallow oil well cement mixed with 25 gallons mine water and injected into borehole.				
	Purpose fulfilled by Borehole:-				
	core of Threequarter seam obtained as requested.				
	Official responsible for above Report:				
	Mr A F Bowmer.				



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SERIES 680

50 APR 1977

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Section of MARKHAM NO 13 U/G B/H

6-INCH MAP	B/H
SK 47 SE	47 55

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Start of coring			33	68
Siltstone	muddy, fine in parts, poorly laminated; locally abundant worm tracks and burrows, plant fragments from 35.20 to 35.50	4	14		
				37	82
Siltstone	muddy, laminated; abundant flat-lying plant fragments	0	10		
	detached			37	92
LOW TUPTON	0.33 Core lost between 37.92 and 39.11				
	coal, dirty, slightly 3 broken cylinders canneloid				
	carbonaceous mudstone, coal and canneloid coal ll fragments				
	mudstone carbonaceous				
	coal laminae 7 cylinders				
	coal 15 cylinders				
	coal, dull 2 cylinders				
	coal, fusion partings 9 broken cylinders				
	coal 11 cylinder				
	58 + 0.58				
		0	91		
	detached			38	83
Seat Earth					
Mudstone	silty, unlaminated, brownish, with abundant rootlets, and ironstone, fragments only recovered	0	28		
				39	11
Siltstone	fine, unlaminated, brownish, abundant rootlets	0	82		
	passage			39	93
Siltstone	fine, unlaminated; common burrows, rare rootlets	0	18		
				40	11
Siltstone	fine with sandstone fine, common minor erosion surfaces; common burrows, sporadic rootlets	0	40		
				40	51
Siltstone	fine with sandstone fine, slurried, abundant comminuted plant debris	0	61		
				41	12

FORM P 71
SERIES 680

50 APR 1977

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Section of MARKHAM NO 13 U/G B/H

6-INCH MAP

B/H

SK 475E

55

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				41	12
Siltstone	fine with common thin sandstone laminae, rare minor erosion surfaces; common burrows, rare plant fragments	0	71		
	passage			41	83
Siltstone	fine, unlaminated, abundant burrows, common plant fragments in basal 0.08	0	92		
				42	75
Siltstone	fine poorly laminated; abundant plant fragments and burrows, common rootlets with small ironstone nodules in top 0.10	0	51		
	passage			43	26
Siltstone	fine and sandstone fine 50:50 interlayered abundant burrows in basal 0.30	0	71		
				43	97
	first hole abandoned, rig moved over and re-started				
Siltstone	fine with common thin sandstone fine laminae abundant burrows	0	28		
				44	25
Siltstone	fine, unlaminated, barren sharp	0	30		
				44	55
Sandstone	fine with rare thin siltstone fine laminae common minor erosion surfaces; canky in parts.	0	54		
				45	09
Siltstone	fine, with common thin sandstone fine laminae in top 0.15; locally abundant burrows	0	76		
				45	85
Sandstone	fine with rare thin siltstone fine laminae common minor erosion surfaces erosive	0	68		
				46	53
Siltstone	muddy, poorly laminated; common worm tracks, rare plant fragments	0	89		
				47	42
	CORE BOXED 47.42 - 48.51				
Mudstone	silty, light grey, poorly laminated assumed adjacent	0	19		
				47	61

FORM P-71
SERIES 680

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Section of MARKHAM NO 13 U/G B/H **COMMERCIAL IN CONFIDENCE**

6-INCH MAP	B/H
SK 47SE	4958

*Delete as appropriate

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