BGS ID: 728388 : BGS Reference: SK47SE55
British National Grid (27700) : 446631,372211

-- APR 1979

48	SK 47 SE /55	48

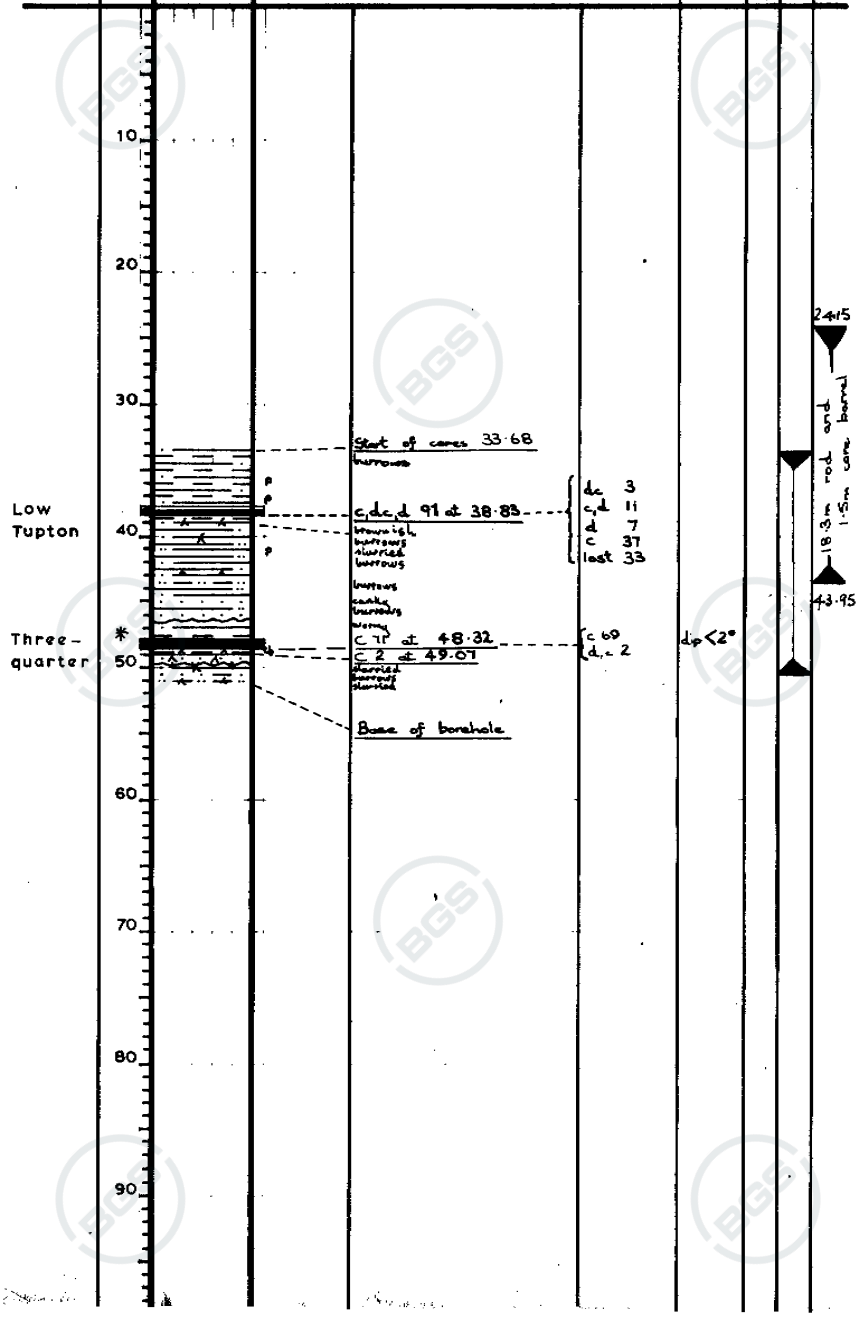
MARKHAM COLLIERY No.13 (1st. Piper L.21's M.G.)

UNDERGROUND DOWNBORE

E. 446 635m
N. 372 206m

DATE. July - Nov 1978
STARTING LEVEL. -484·10m O.D.

Drilled by N.C.B.



Form P 70
Series 680

10 APR 1979
COMMERCIAL IN CONFIDENCE

6-INCH MAP	B/H REGD. No.
SK 47SE (County, Sheet and Qtr.)	55
SK47SE (Nat. Grid, Sheet & Qtr.)	~~45~~ ~~459~~

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.

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH 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.

FORM P 71
SERIES 680

30 APR 1977

COMMERCIAL IN CONFIDENCE

6-INCH MAP	B/H
Sk 47 SE	~~49~~ 55

Section of MARKHAM NO 13 U/G B/H

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH 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 canneloid carbonaceous mudstone, coal and canneloid coal 11 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 + 0.33	0	91		
				38	83
	detached				
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

30 APR 1977

COMMERCIAL IN CONFIDENCE

6-INCH MAP	B/H
SK47SE	~~SW~~ 55

Section of MARKHAM NO 13 U/G B/H

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH 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	0	30		
	sharp			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 lamine in top 0.15; locally abundant burrows	0	76		
				45	85
Sandstone	fine with rare thin siltstone fine laminae common minor erosion surfaces	0	68		
	erosive			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	0	19		
	assumed adjacent			47	61

FORM P 71
SERIES 680

10 APR 1977

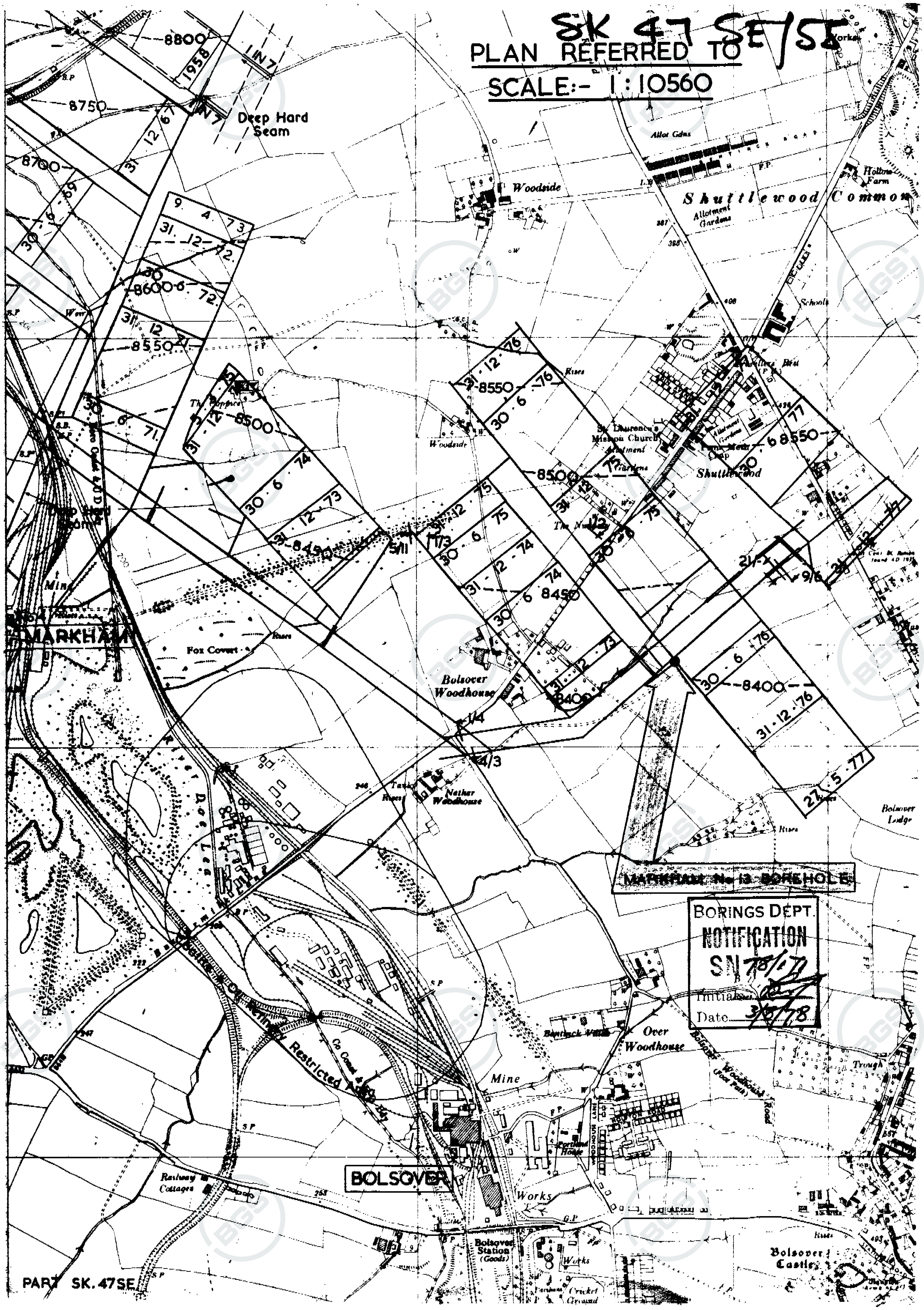
COMMERCIAL IN CONFIDENCE

6-INCH MAP	B/H
SK47SE	~~4955~~

Section of MARKHAM NO 13 U/G B/H

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS m or ft*	THICKNESS cm or in*	DEPTH m or ft*	DEPTH cm or in*
				47	61
THREE-QUARTER	coal, bright 26 cylinders coal, bright 23 fragments coal, bright 8) coal, dull 3) cylinders coal bright 9) coal and dirt 2 fragments 71				
	Recovery 96%, dip less than 2°	0	71		
				48	32
Seat Earth Siltstone	light grey	0	91		
				48	51
Siltstone	muddy, unlaminated; common plant fragments, common rootlets	0	33		
				48	84
Mudstone	silty, carbonaceous, laminated; rootlets and root nodules in top 0.08, listric in parts attached	0	21		
				49	05
COAL	cylinders	0	02		
				49	07
Sandstone	fine, unlaminated, abundant rootlets, Stigmaria in top 0.15 erosive	0	79		
				49	86
Siltstone	fine with rare thin irregular sandstone fine laminae; slurried in basal 0.10, abundant rootlets	0	53		
				50	39
Sandstone	fine with common thin siltstone fine laminae common burrows, rare rootlets	0	41		
				50	80
Siltstone	fine and sandstone fine, slurried	0	23		
				51	03
Siltstone	fine with common thin sandstone fine laminae common rootlets	0	10		
				51	13
	Base of borehole				


SK 47 SE/55
PLAN REFERRED TO
SCALE:- 1:10560
Deep Hard Seam
Woodside
Shuttlewood Common
Allotment Gardens
Schools
St. Laurence's Mission Church
Shuttlewood
Bolsover Woodhouse
Nether Woodhouse
Fox Covert
MARKHAM
MARKHAM No 13 BOREHOLE
BORINGS DEPT.
NOTIFICATION
SN 78/17
Initials
Date 3/5/78
Over Woodhouse
Bentinck Villas
Mine
Works
BOLSOVER
Bolsover Station (Goods)
Railway Cottages
Bolsover Castle
Bolsover Lodge
Cricket Ground
PART SK. 47 SE