



COMMERCIAL IN CONFIDENCE

JUN 1982

6 - INCH MAP

REGD. NO.

SK 47 SW

154

Section of: MARKHAM COLLIERY, L401
MAIN GATE DRIFT
(Deep Hard to First Piper)
Purpose: Access to First Piper Seam

Exact Site: Top E.444069 Bottom E.444010
N.371486 N.371458

(Nat.Grid, Sheet & Qtr.)

Level at which drift commenced relative to
O.D. -382.5 m

Date of Sinking:- September - November 1981

Sinker: N.C.B.

Drift examined by D.J. Green

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
	Start of drift - floor of Deep Hard			0	00
Mudstone	highly carbonaceous; shaly;; abundant non-marine lamellibranchs	0	47	0	47
<u>SEATEARTH</u>					
Siltstone	fine, unlaminated; locally muddy; grey; abundant small ironstone nodules near the base; abundant roots, becoming less common towards the base.	1	56	2	03
Sandstone	fine to medium grained; massive in top 0.15; common micaceous planty planes below; local ripple bedding; large load-and-pouch structures in the basal 0.12; compressive strength 82 - 128 MPa (cone indenter) sharp	0	39	2	42
Siltstone	fine, laminated, occasional sandstone fine laminae in the top 0.30 becoming rare below; rare isolated sandstone lenses; occasional ironstone bands; occasional plant remains including <u>Calamites</u>	1	66	4	08

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Sandstone	fine with occasional siltstone fine laminae near the top; compressive strength 62 - 90 MPa (cone indenter)	0	30	4	38
Siltstone	medium, unlaminated; rare disconnected sandstone fine lenses and wispy laminae in top 0.20.	1	05	5	43
Siltstone	fine and sandstone fine, inter-laminated and interlayered; locally developed ripple bedding with ripple drift; common micaceous planty planes; minor load casts in top 0.10; occasional sand-filled burrows	0	71	6	14
Siltstone	medium to coarse grained; unlaminated	0	15	6	29
Siltstone	fine; locally muddy; rare wispy sandstone fine laminae and isolated lenses; rare plant remains	2	74	9	03
Siltstone	fine and sandstone fine; interlaminated and interlayered; common micaceous planty planes; locally developed ripple bedding	1	38	10	41
Siltstone	fine to medium with rare sandstone fine laminae; rare plant remains passage	0	30	10	71
Siltstone	muddy, laminated; common ironstone nodules, occasional worm tracks parting	0	40	11	11
Mudstone	silty near the top; laminated; common ironstone nodules and bands; common worm tracks	1	79	12	90
<u>1ST PIPER SEAM</u>	Coal, bright		39		
	Mudstone		1		
	Coal, bright		34		
	Mudstone		2		
	Coal and dirt		2		
	Mudstone, carbonaceous		2		
	Mudstone		2		
	Coal, bright		15		
	Coal, dirty dull (25.6% ash)		10		
	Coal, bright		34		
		<u>141</u>	<u>1</u>	<u>41</u>	<u>14</u>
					<u>31</u>



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SEATEARTH
Mudstone

unlaminated; grey; common listric surfaces;
locally slightly silty; common roots
Base of Drift

0 10+ 14 41

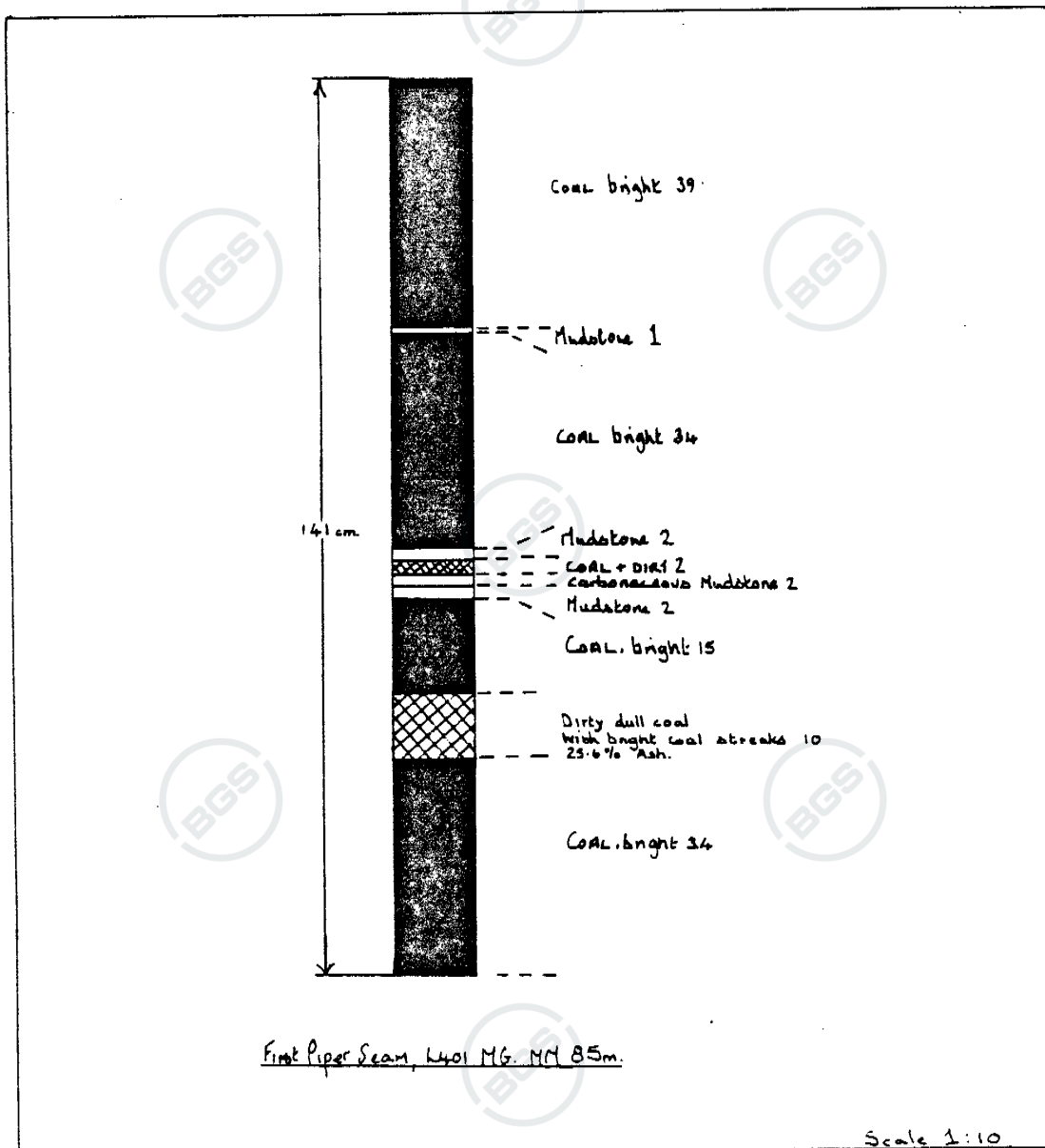
N.B.

All thicknesses measured at right angles
to bedding

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MARKHAM COLLIERY

L401 Main Gate Drift

(DEEP HARD TO FIRST PIPER)

Start
E. 444069

Finish
E. 444010

DATE. Sept.-Nov. 1981

N.371486

N. 371458

STARTING LEVEL.—382.5 m.

SEAMS * ANALYSED	HEIGHT (METRES)	LOG	SEAM SECTIONS & DEPTHS	DIP DEV. OIL GAS WATER	GEOLOGICAL LOG	CORING Casing Left in Hole
			Seam thicknesses in centimetres.			
1st Piper	0 10 20		<p>Starting level: base of Deep Hard Seam</p> <p>ripple drift, barren ripples</p> <p>c.d. 1st at 14.31</p> <p>c. 39 c. 34 c. 32 c. 30 c. 28 c. 26 c. 24 c. 22 c. 20 c. 18 c. 16 c. 14 c. 12 c. 10 c. 8 c. 6 c. 4 c. 2 c. 0</p>			