



51 (on 47 SE refers to top) SK47 SE / SK 47 SW 51 (on 47 SE refers to top)

MARKHAM COLLIERY

Deep Hard to Blackshale Return Drift

SK 47 SW / 53 - - 00180

TOP BOTTOM
E 445 174 444 696 DATE Aug.1973 - Oct. 1974
N 372 410 372 520 STARTING LEVEL - 453.38 m

SEAMS * ANALYSED		COMMERCIAL IN CONFIDENCE		DIP DEV OIL GAS WATER		GEOLOGICAL LOG		CORING CASSING LEFT	
LOG		SEAM SECTIONS & DEPTHS							
D.H.	DEPTH (METRES)	Seam thicknesses in centimetres.							
		coal laminae							
		No record 9.91-8.11							
		No record 6.93-8.13							
1st. Piper	10	wormy							
		c, dc, d 116 at 12.85							
		siltstone pellets							
	20	No record 21.77-23.67							
2nd. Piper	30	d, c, dc 175 at 26.84							
		No record 28.31-28.81							
		shelly ironstones							
Cockleshell	40	coal laminae							
		c 41 at 38.67							
		No record 42.33-43.73							
	50	bars							
Low Tupton	60	c 67 at 51.51							
		iron, sph, haematite							
		No record 52.11-53.31							
		micro-breccia							
		No record 56.52-57.47							
		faultlets, congl breccia							
		coal laminae							
		tunnies							
T.Q. washout	70	c 14 at 66.04							
T.Q. Floor Coal		No record 67.26-68.06							
	80	wormy							
	90	wormy							
Yard		c 61 at 95.03							
B.S.4		ca and c 16 at 96.71							
		coal laminae							
	100								
	110								
B.S.3-1		No record 110.28-113.28							
		Goaf							
	120								
	130								
	140								
	150								

NB Thicknesses are measured at right angles to the bedding.

Depths are the approx. Stratigraphic depths below the Deep Hard. (Cumulative)

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Depths are the approx. Stratigraphic depths below the Deep Hard. (Cumulative)



FORM P 70
SERIES 680

1 G.S.
SK 47 SW / 53

Section of MARKHAM COLLIERY

DEEP HARD TO BLACKSHALE RETURN DRIFT

Purpose

Exact Site TOP BOTTOM

E 445174 444696

N 372410 372520

Level at which commenced relative to O.D. - 453.38 m
drift

Date of sinking or boring August 1973 - October 1974

Sinker or borer National Coal Board

Examined by P.K. Boam

8-INCH MAP	B/H REGD. No.
(County, Sheet and Qtr.)	
SK 47 SE/ SK 47 SW (Nat. Grid, Sheet & Qtr.)	51 (on 47SE refers to top)
Attach tracing from a map or sketch map if possible	

COMMERCIAL IN CONFIDENCE

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
	NB (i) Composite section from Mine Geologist's observations and Surveyor's levels.				
	(ii) Thicknesses measured at right angles to the bedding				
	(iii) Depths are the approximate stratigraphic depths below the Deep Hard (cumulative).				
Siltstone	fine; ironstone; abundant plants	0	91		
Siltstone	with sandstone; ripple drift and 'train' drift	0	56		
Mudstone	vitrain streaks	0	13		
DEEP HARD (Main Leaf)	coal; pyritic in top 10cms 71				
	dirt. carbonaceous 4				
	coal 58				
	133	1	33	0	00
Mudstone Seat Earth	shaly; non-marine lamellibranchs	0	28	0	28
Mudstone	slightly silty, coal laminae	0	89	1	17
Siltstone	with sandstone; ironstone; Stigmara	1	22	2	39
Siltstone	fine, laminated; rare plants	1	52	3	91

FORM P-71
SERIES 580

COMMERCIAL IN CONFERENCE

Section of MARKHAM COLLIERY
DEEP HARD TO BLACKSHALE RETURN DRIFT

8-INCH MAP	B/H
-- OCT 1980	
SK 47 SW	53

*Delete as appropriate

[illegible]

~ FORM P.71
SERIES 680

Содерж.

6-INCH MAP

B/H

- - OCT 1980

Section of MARKHAM COLLIERY
DEEP HARD TO BLACKSHALE RETURN DRIFT

SK 47 SW 53

*Delete as appropriate

[illegible]

FORM P 71
SERIES 680

COMMERCIAL IN CONFIDENCE

Section of MARKHAM COLLIERY
DEEP HARD TO BLACKSHALE RETURN DRIFT

B-INCH MAP	B/H
SK 47 SW	53

*Delete as appropriate

[illegible]



FORM P 71
SERIES 680

COMMERCIAL IN CONFIDENCE

Section of MARKHAM COLLIERY
DEEP HARD TO BLACKSHALE RETURN DRIFT

6-INCH MAP	B/H
SK 47 SW	53

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				53	31
Siltstone	fine, unlaminated, ironstone; abundant plants, ferns	0	76	54	07
Siltstone	fine, with sandstone laminae; micaceous planty planes; <u>Stigmaria</u>	1	12	55	19
Sandstone	medium, micro-breccia	0	33	55	52
NO RECORD		1	95	57	47
Siltstone	fine; ironstone; plants including <u>Calamites</u>	0	61	58	08
Sandstone	with siltstone; ripple and 'train' drift, variously inclined small displaced blocks, anastomosing faultlets; local coaly breccia	0	36	58	44
Siltstone	fine to medium	1	22	59	66
Sandstone	and siltstone, brecciated; ironstone, coal laminae	0	15	59	81
Siltstone	fine with thin sandstone laminae	0	33	60	14
Sandstone	medium; well-cemented; coal laminae; stained fissures	0	69	60	83
Siltstone	medium, with sandstone; micaceous planty planes; long burrows, bioturbated	0	61	61	44
Siltstone	medium, rare plants	2	25	63	69
Siltstone	fine, with lenticular sandstone laminae; plants	1	20		
<u>THREEQUARTER</u> <u>HORIZON</u> <u>Seat Earth</u>	(seam washed out)			64	89

FORM P 71
SERIES 080

CONFIDENTIAL - SECURITY INFORMATION

Section of MARKHAM COLLIERY
 DEEP HARD TO BLACKSHALE RETURN DRIFT

8-INCH MAP	B/H
--- OCT 1980	
SK 42 SW	53

*Delete as appropriate

[illegible]

FORM P.71
SERIES 680

COMMERCIAL IN CONFIDENCE

Section of MARKHAM COLLIERY
DEEP HARD TO BLACKSHALE RETURN DRIFT

G-1 INCH MAP	B/H
-- OCT 1980	
SK 47 SW	53

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				80	66
Sandstone		0	30	80	96
Siltstone	with lenticular sandstone ripples	2	44	83	40
Siltstone	fine with thin sandstone laminae; micaceous planty planes	3	65	87	05
Siltstone	fine to medium	1	22	88	27
Mudstone	laminated, ironstone nodules and bands; wormy	1	73	90	00
Mudstone	dark, slightly carbonaceous; ironstone nodules	2	13	92	13
Mudstone	laminated: ironstone	2	29	94	42
<u>YARD SEAM</u>	Coal	0	61		
<u>Seat Earth</u>				95	03
Mudstone	listric: ironstone nodules	0	20	95	23
Siltstone	ironstone at base	1	32	96	55
<u>BLACKSHALE</u> (FOURTH LEAF)	cannel 10 coal 6 16	0	16		
<u>Seat Earth</u>				96	71
Mudstone	highly listric: ironstone nodules	0	36	97	07
Mudstone	coal laminae	0	15	97	22
Siltstone	ironstone nodules; Stigmara	0	91	98	13

FORM P 71
SERIES 680

Section of MARKHAM COLLIERY
DEEP HARD TO BLACKSHALE RETURN DRIFT

COMMERCIAL IN CONFIDENCE

8-INCH MAP	B/H
- - OCT 1980	
SK 47 SW	53

*Delete as appropriate

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