

я у _мг \$	131 OCT 1974 SK 4	7	51	3	34	Z, G. S
FORM P 70 SERIES 880	Consider the Constant		6 - I N CH	MAP	B∕H R	IEGD. No .
Section of Markh	Am No.8 (L.19's) U.G. Borehole	(Cour	ity, Shee	t and Ot	r.)	
Purpose To promeasure	ve the Threequarters Seam and roof		(47)			35
Exact Site	E. 445 407 metres N. 373 348 metres	Attac	h tracing	g from a	map or	066
- 01-1	B.O.D. e commenced relative to 0.D.1,307.3ft. m or fte (Floor of First Piper) boring 21.9.73 - 2.11.73					
Sinker or borer	N.C.B. (F. Gerrard)		*De	lete as a	ppropriete	
GEOL OGI CAL			THICK		DEP	
CLASSIFICATION	Start of cores		m or ft*		m or ft*	
Mudstone Mudstone	slightly silty medium grey, laminated, locally fissile; abundantly wormy; non-ma lamellibranchs including Najadites, Anthr rarely with both valves; occasional irons patches passage dark fissile; abundant large non-marine lamellibranchs including carbinated Carbonicola to 56/3; less common 56/3 to 58/6; rarely in situ; ostracods at 54/6,	acos tone	3	6	53	6
Muds tone	55/0; wormy throughout; shelly ironstone to 58/9, 59/10 to 60/3; lighter grey 60/0 63/0 with rare non-marine lamellibranchs shelly ironstones passage dark fissile, carbonaceous; fish at 64/6; ostracods including Geising and ?Carbonit	and	10	0	63	6
	sporadic throughout; ironstones with pcso fish scale and impressions 65/2 to 65/4 non-marine lamellibranchs abundant below mainly carbonated	- 1	6	6	70	0
Cockleshell Seam	part core and fragments of fusainous, bri, coal; pyritis; (driller's record)	ghţ	1	0_	71	0
Seat Earth	Mudstone dark, listric, rooty; becoming si downwards ironstone nodules in basal 0/4 sharp	ilty	1	8	72	8.
Seat Earth	Siltstone sandy, rooty, Stiemaria; basal 0/2 ironstone		2	0	74	8



FORM P.71

COMMERCIAL IN CONTROL

SK475E/34

Section of Markham No.8 (L.19's) U.G. Borehole

			priste			
GEOLOGICAL			NESS	DEPTH		
CLASSIFICATION	NATURE OF STRATA	m or ft*	cm or in*	m or ft*	cm or in	
				74	+8	
Ī						
_ Siltstone [fine and sandstone fine, variously inclined					
	layers; root-disturbed to 76/8, rhythmic					
7	layers of 2 cm units 76/8 to 77/8, variously			 		
}	inclined with diastems 77/8 to base; small-		 			
-	scale load casts in basal 1/11 and diastems		 		 	
,				<u> </u>	 	
· \	small sand-filled burrows in basal 0/4	4_	11	L		
1				79	_7_	
			<u> </u>			
Ironstone		0	1			
1			{	79	8	
-				<u> </u>		
Siltstone	fine with sandstone fine laminae and					
t	lenticular sandstone layers interbedded with				 	
ļ -	sandstone fine beds 0/1 to 0/3 thick: rib			 	!	
}				 _	 	
1	and furrow structure, regular thin ironstone			ļ	 	
Ļ	beds in siltstone; u-shaped burrows in sand-	•	<u> </u>	 		
	stone rich beds with preferred orientation			<u> </u>		
į	at 80/10, micaceous planty planes at sandy					
ſ	horizons with rare plants	4	1	}		
Ī	rapid passage			83	9	
Ţ						
Sands tone	medium to coarse, rib and furrow; micaceous		 		 	
January Volto	planty planes; soft sediment pellets, basal		 	 	 	
			 _	 		
	worm tracks with sandy infilling	11	<u> </u>			
	sharp		 	84	10	
						
Siltstone [fine and sandstone; lenticular sandstone		Ĺ	<u> </u>	L	
1	layers and laminae and thin bands; ironstone		L	<u> </u>		
· ·	layers; micaceous planty planes in sandy]		["	
ſ	beds with soft sediment pellets; burrows in					
Ţ	sandy beds	3	3	1		
Ţ.				88	1	
ł				 ~~	 •	
Ironstone		0	1	 	 -	
Trons tone					<u> </u>	
<u> </u>				88	2	
			ļ	 	 -	
Sandstone	medium, rib & furrow, micaceous planty			<u> </u>	├	
1	planes and soft sediment pellets	0	11		<u> </u>	
į	sharp		<u> </u>	89	1	
					· -	
Siltstone	fine with sandstone fine; mainly thin					
	elongated ripple marks; micaceous planty				T	
31	planes; basally iron-rich	1	1		 	
	prairies, pastrily from-rich	 -	 	90	2	
		ļ	 	30		
t t				t .	}	
Stan. 5 = 1 :	61		 			
Sands tone	fine with siltstone fine; inclined layers:					
Sands tone	fine with siltstone fine; inclined layers: ripple drift; micaceous planty planes	. 0	4			
Sands tone		0	4	90	6	
í		0	4	90	6	
Sands tone Sands tone		0	4	90	6	
í	ripple drift; micaceous planty planes fine to medium, well cemented; rib and	0	4	90	6	
í	ripple drift; micaceous planty planes fine to medium, well cemented; rib and furrow structure; coaly plants; fusain	0	4	90	6	
í	ripple drift; micaceous planty planes fine to medium, well cemented; rib and furrow structure; coaly plants; fusain pockets, soft sediment pellets, micaceous	0	4	90	6	
í	fine to medium, well cemented; rib and furrow structure; coaly plants; fusain pockets, soft sediment pellets, micaceous planty planes, thin ironstone bands, silt-		4	90	6	
í	ripple drift; micaceous planty planes fine to medium, well cemented; rib and furrow structure; coaly plants; fusain pockets, soft sediment pellets, micaceous		4			
1	fine to medium, well cemented; rib and furrow structure; coaly plants; fusain pockets, soft sediment pellets, micaceous planty planes, thin ironstone bands, silt-		4	90	6	
1	fine to medium, well cemented; rib and furrow structure; coaly plants; fusain pockets, soft sediment pellets, micaceous planty planes, thin ironstone bands, silt-		4			



FORM P 71 SERIES 480

COMMERCIAL IN COUNTY THE BEINGH MAP

Section of _____Markham No.8 (L.19's) U.G. Borehole

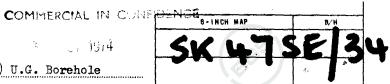
		*Delete es appropriate					
GEOLOGICAL			THICKNESS DEPTH morft* cmorin* morft* cm				
LASSIFICATION	NATURE OF STRATA	m or ft*	cm or in*	morft*	cm or in		
<u> </u>				99	10		
Sands tone	medium massive, well cemented, siltstone				<u> </u>		
	flake breccia at 100/6 and 101/0; ironstone		T				
	100/11 - 101/0; basal elongated burrows	1	5				
	sharp		1	101	3		
	F211.07 b						
-Siltstone	fine and sandstone fine; connected lenticular				<u> </u>		
_ DITTS toue			 		 		
	sandstone ripple marks, basal burrows, iron-	0	4		 		
	rich patches	 	+ +	101	17		
		 		101	 		
			 	ļ			
Sands tone	medium, rib and furrow; micaceous planty	<u> </u>	-	ļ <u>.</u>			
	planes, basal tracks; bioturbation contact	1_1_	5	<u> </u>			
				103	0		
		\			<u> </u>		
Sandstone	fine with siltstone fine; discontinuous						
Dating tollo	laminae, diastems; basally iron-rich; micace	ous					
	planty planes; abundant small vertical burro	vs 1	8	T			
	erosive	T		104	8		
	GLOSTAG		 	 `~	 		
O	ation Other with and Other mineral	 	 	1	1		
Sands tone	medium-fine, rib and furrow: micaceous	 	 	 	 		
	planty planes; erosion surfaces 106/5 and	 	+	+	 		
	107/10; locally canky	44_	6	 	+=-		
				109	2_		
		<u> </u>	-	 			
Siltstone	fine to medium, laminated, with sandstone	<u> </u>	 	<u> </u>			
	fine bands	0	5	ļ			
				109	7		
Sands tone	fine to medium, rib and furrow	0	4				
Dands tone	TATIO VO INGULARIA TARA CARA CARA CARA CARA CARA CARA CAR	T		109	11		
		 		 			
Otto I dan dan da	fine with thin disconnected lenticular						
Siltstone	line with thin disconnected lengthar			1			
:	sandstone ripple marks and thin rippled	3	5	+			
	sandstone bands up to 0/3	1	- 2	113	4		
		+	+	1113	+4-		
		 		+			
Sands tone	medium, well cemented: rib and furrow:	+	+	+	+		
	soft sediment pellets in basal 0/2	<u> </u>	10	 			
		 	 	114	2		
			 	1			
Siltstone	fine with sandstone fine: lenticular ripple	<u> </u>					
	marks; rib and furrow sandstone bands up to			_l			
	0/4 thick	4	1_1	<u> </u>			
	sharp			118	3		
	MANA M	1			Τ		
Sands tone	medium. rib and furrow	1	3				
pandatone			1-	119_	6		
	erosive	 	1	1	1		
	0) 113 113 22 23 24 3 24 3 24 3 25 25	+	-	+	1		
Siltstone	fine, with thin disconnected sandstone fine		+	 	+		
	ripple marks, increasing in amplitude to	 	1	+			
	base		11	1.0=	+		
	* 1		-	123	5		
				1			
1				-			
			52	4			



ORM P 71

J. 1314

ection of _____Markham No.8 (L.19's) U.G. Borehole



Sandstone medium with discontinuous siltstone laminae, diastems; micaceous planty planes, soft sediment pellets passage Siltstone fine with sandstone fine; disconnected lenticular ripple marks 6 2 Goal bright fragmented - driller's record O 10 Seat Farth Mudstone silty in top 0/4; brown, listric, with sphaerosiderite 1 10 Seat Farth Siltstone brown, rocty, muddy at base 1 11 Seat Farth Siltstone coarse, rooty, sphaerosiderite; micaceous 1 6 Siltstone medium with sandstone fine; thin lenticular ripple marks, numerous sandstone fine load casts towards base; basal 0/2 rib and furrow sandstone fine with siltstone fine, contorted bedding; Calamites fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	DEPTH or 10 on 1 23
Sandstone Medium with discontinuous siltstone laminae diastems; micaceous planty planes, soft sediment pellets 1 2 passage 1 2	23 E 24 5 30 9 31 5 33 5
Sandstone medium with discontinuous siltstone laminae diastems; micaceous planty planes, soft 2 2 2 2 2 2 2 2 2	24 5 30 9 31 5
Sandstone medium with discontinuous siltstone laminae diastems; micaceous planty planes, soft 2 2 2 2 2 2 2 2 2	24 5 30 9 31 5
diastems; micaceous planty planes, soft sediment pellets passage Siltstone fine with sandstone fine; disconnected lenticular ripple marks 6 2 12 Goal bright fragmented - driller's record 0 10 Seat Earth Mudstone silty in top 0/4; brown, listric, with sphaerosiderite 1 10 Seat Earth Siltstone brown, rooty, muddy at base 1 11 Seat Earth Siltstone coarse, rooty, sphaerosiderite; micaceous 1 6 Siltstone medium with sandstone fine; thin lenticular ripple marks, numerous sandstone fine load casts towards base; basal 0/2 rib and furrow sandstone fine with siltstone fine, contorted bedding Calamites fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	30 3
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Siltstone Siltstone	30 3
Siltstone Fine with sandstone fine; disconnected	30 3
Siltstone fine with sandstone fine; disconnected lenticular ripple marks 6 2 17 Goal bright fragmented - driller's record 0 10 Seat Farth Mudstone silty in top 0/4; brown, listric, with sphaerosiderite 1 10 Seat Farth Siltstone brown, rooty, muddy at base 1 11 Seat Farth Siltstone coarse, rooty, sphaerosiderite; micaceous 1 6 Siltstone medium with sandstone fine; thin lenticular ripple marks, numerous sandstone fine load casts towards base; basal 0/2 rib and furrow sandstone fine with siltstone fine, contorted bedding; Calamites fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	30 3
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Seat Earth Siltstone coarse, rooty, sphaerosiderite; micaceous 1 6 12	31 7
Coal bright fragmented - driller's record O 10	31 7
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Sandstone medium; slurry; minor load cards 1 5 Sandstone fine with siltstone fine, contorted bedding; Calamites 0 9 Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	38 (
Sandstone fine with siltstone fine, contorted bedding: Calamites O 13 Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to)
Sandstone fine with siltstone fine, contorted bedding: Calamites O 9 14 Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	
Sandstone fine with siltstone fine, contorted bedding; Calamites 0 9 14 Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	
Sandstone fine with siltstone fine, contorted bedding: Calamites 0 9 14 Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	39 5
Calamites O 9 14 Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	
Calamites 0 9 Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	
Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	
Siltstone fine to medium with sandstone fine; lenticular ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	
ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	40 2
ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	
ripple marks; pouches, load casts; rib and furrow sandstone 42/6 to 43/3 and 44/0 to	
furrow sandstone 42/6 to 43/3 and 44/0 to	
Turrow sandstone 42/6 to 45/3 and 44/0 to	
46/0, carbonate cemented 9 8	
	19 1
	-
Sa ndstone medium with siltstone fine, rib and furrow	
with siltstone drapes towards top 0 4	
15	50 2
Siltstone medium with sandstone fine laminae and rare	
	
lenticular ripple marks; abundantly wormy	
with burrows 3 3	
sharp 15	53 5
	1



FORM P 71

COMMERCIAL IN CONFIDENCE

SK47SE34

Section of ____Markham No.8 (L.19's) U.G. Borehole

		*Delete as appropriate				
			NESS	DEPTH		
GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	m or ft*	cm or in*	m or ft	cm or in	
				153	5	
dands tone	medium with discontinuous siltstone laminae;		<u> </u>			
Bands tone						
	basally rib and furrow, micaceous planty			·	+	
	planes	00	8			
	erosive			154	1	
Silts tone	fine locally muddy; sandstone fine lenticular	•				
~ DIII to tolle						
	ripple marks increasing downwards; thin		<u> </u>			
	sandstone bands 57/11 to 58/4; ironstone					
	breccia 59/7 to 59/8; burrows locally					
	abundant	6	6			
				160	7	
				1.00		
	* CORE BOXED $160/7 - 165/5\frac{1}{2}$			<u> </u>		
			Y			
* Mudstone.	slightly silty, carbonaceous in basal $0/0\frac{1}{2}$	0	8			
	detached, fitting			161	3	
	de tacheus 1100mg			 		
			 			
HREEQUARTERS	coal, dirty 0/5)			1		
	coal, bright 0/11)attaching cylinders			<u> </u>		
	coal, bright 0/6 fragments					
	coal, bright O/11)					
	coal, bright 0/11/		 	-	 -	
	coal, dull $0/0\frac{1}{2}$)attaching cylinders		 	 		
	coal, bright $0/2\frac{1}{2}$)		ļ			
	3/0					
	Recovery 95%		T			
	Dip less than 2°	3	0			
			 	164	3	
	detached, fitting		 	1.04		
				 		
* Seat Earth	Siltstone	1	21/2	1		
				165	5\frac{1}{2}	
			1.00			
P	C121-1			 		
Seat Earth	Siltstone sandy, rooty, Stigmaria,		0.1	 		
	sphaerosiderite	1	$2\frac{1}{2}$			
				166	8	
				1		
Seat Earth	Mudstone dark, rooty; locally silty and					
Seat Bartin	micaceous, occasional horizontal plants and	1				
	micaceous, occasional norizontal plants and	 		 		
	stem guilielmites	1_1_	4	1		
				168	0	
				L		
רמס"ו	bright	0	1 1 2	T		
Coal	MI-SILV.	<u> </u>		168	1 1 2	
		 	 	1100		
		 	1	 	_	
Seat Earth	Mudstone silty listric, rooty; vitrain					
	pocket at 68/6	1	103			
				170	0	
	passa <i>g</i> e			1		
. n		 		+		
Seat Earth	Siltstone medium, roots, Stigmaria; immature	 			-	
(downwards: disseminated pyrite film on some	1		1		
L	roots	8	4			
	sharp	1		178	4	
	attor.h			 '''`		
		+	+	+		
				-		
,	1 20 1			1		
~			9 7	1		
	· · · · · · · · · · · · · · · · · · ·	-		1		
			+	 	''	
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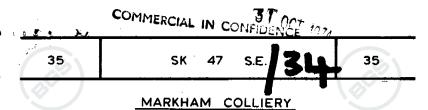
FORM V.71
scale 2000

COM LENCIAL IIN COMPANDED STATE STATE AND MAP

Section of Markham No.8 (L.19's) U.G. Borehole

ction of Markham No.8 (L.19's) U.G. Box	ehole					
			as appro			
GEOLOGICAL NATURE OF ST	RATA	THICK	cm or in*.		CM or in+	
The state of the s		m gr it*	rw ot tu.	178	4	
andstone fine, rib and furrow: wel		<u> </u>				
andstone fine, rib and furrow:wel planes, clay pellets	l cemented; planty	 	4		 	
parads, day perieus		 	4	179	8	
Siltstone fine, poorly laminated,	medium-grey; rare	<u> </u>				
plant stems along beddin bands; small vertical bu	g; ironstone	<u> </u>			 	
abundant, some associate	d iron-rich 82/3	 			 	
to 82/9, some micaceous	planty planes:					
slightly sandy below 82/	9	5	4.			
		1		185	10	
Base of Bore	holo	-	- 6		 	
Date of Dole	11074					
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No.8 (L.19's) FIRST PIPER Downbore

E 445 407 M DATE Sept Nov. 1973 N 373 348 M STARTING LEVEL 1307-3 ft. B.O.D							
Og Seams Analysed	SEAM SECTIONS & DEPTHS 1st Piper floor	DIP DEV OIL GAS WAT ER	ELECTRIC LOG	CASING LEFT IN HOLE			
F1.O	Open hole: 0 - 50ft.		· · · · · · · · · · · · · · · · · · ·				
Ck:	Coal 1'0' (0, 71'-0"		• • •				
LT.	ripple of first in packets ripped districts ripple of contes safficular ripple marks enticular ripple marks enticular ripple marks enticular ripple marks enticular ripple marks	+ +					
150 TØ.	lenticular ripple marks hin Sandstone bands lenticular ripple marks chical ripple marks Standar ripple marks Cada viria to Hebrita Standarda Johnson identic Cada viria to Hebrita Standarda portile film purous, plants	dip. <2*		**************************************			
200	Total depth : 185ft.		1 1				

Cores examined by: P.K.Boam Drawn by: P.K.Boam