

	/0384 10x 7/45 (51) F.&S.	1	urvey use or		
KEC	ord of Shaft or Bore for Minerals'	1-11	ісп Мар К	egistered No ∕▲	•
Name and No	umber of Shaft or Bore		1/	deli	
***************************************	PALTERTON COLLIERY BOREHOLE	(2	人华	MH	X
For Messrs	N.C.B., No 1 Area, East Midlando División			('	
	age Palketon	6-inch Regist			
County	Cae affacled plan	No.			
Exact site	Cae attacled plan	Attac	h a tracing		
Purpose for w	. 280 yel N. 79° N of Doc her Bridge) which made to prove quality of cools as recorded in	(map	ap, or a sl , if possible for Min	3.	
				own, horizon	tal or
inclined; in la	tter cases give angle of inclination and direction				
Made by	Boyle from LER.				
Information fi Specimens	rom Cone examination L. E.G. SmittDate of Sin	king	1258		
	Additional Notes in Space Overleaf	******************************			
For Survey use only		HICKNES	5	DEPTH	
GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	FL	lin.	FF	in
					_
	No core (open like)	19	6	19	6
	Sandtone, Soft brown-gray mica como				_
	(core fragmentary)	<u> </u>	6	25	0
	4 ft of core mining between 19 ft 6in. a.				·-
	35 ft 6in.	4	0	29	0
	Mudlone, gray silty; plants above 35 ft 61.	14	6	4-3	6
	Mustone, fail, dur gray, 1-in shall you	*****			
	ironstone @ 46 H 2 ing : sporedix plant	A.			
cone /	higherto; poor stalls afore 48 ft		<u> </u>		
73A	for scale of bank	10	3	53	9
1341	Stale dark gray, silty and meacens below	,	ļ		
	S4 FF 10 in 2-in instrue band only				_
- 1	poor musel " proposet at 55 ft 6in.				ļ
• (Sporadic plant fragments	2	0	<i>5</i> 5	9
'	Mandsone, oney silty, with plants	17	3	73	0
	Mustone cury becoming darks damindo	-			-
	and dark grey below 82 ft; 21 in.	49	-		-0
÷.	Injustone band at 78 ft Gin. Mudtone, ones with ironstone band and	•8	8	91	8
	secretic plant framet	_	44		_
			4	93	0
	Coal lin. (Driller's History; fragues				-
•	Mcontred)	-	1	74	1
	Seateast dark grew muchtone		2	173	3
-	Seatenth brown multing will pake	1			
	1 Spherosident	3	4	101	7
3					
- A 			in inst	Deer leaf	
	Date Charlegend F.R.S. Map 1'C.5. Map	أجد بالا	ad (mar grad	ob)	
Bourn Kn	Wer and Monancer, received once Pile Mo. No. No.	on 1" Mag	on # 2	lap	,
	on, 8. V 7.	- Care		- 1	



	Number of Shaft or Bore given by Geological Survey: Solicity Conclude Conclude	Co	unty	er Sheet.		8
		IICKNESS			Dертн	
GEOLOGICAL CLASSIFICATION	DESCRIPTION	FH	l'n.		Ft	in
		*********************		from	101	7
	Seateauth, dark gray multiple, with ironstale mobiles in love part	2	5		104	0
	Multare, dark grey, wilt nootlet; inautive modules above 109 ft 3in. and					
	inoustine modules about 109 ft 3in and		ļ	,,		
	in bottom 1 St.; show fragment at	. 9	9		113	9
· · · · · · · · · · · · · · · · · · ·	God 13 in.) Dist 22 m. { 37 in.	3	2		116	
	Gal 3in)				<u> </u>	
	Sectionally, gray mustone	l	4		118	3
e G	Mudrone gray silty; pyritical rostlet;	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,		
	applies below 120/9	4	9		123	0
•	Interbanded may makene or silty makene		•			T
* .	and light only countrie; plant delini	8	4	**************************************	131	4
	God 8in.		8		132	C
	Sententh, hand gray silty Multione, gray silty becoming danke gray	3_	9		135	9
	below 134/- ; 3-in. incretore bound	**********				***************************************
,	<u> </u>	6	3		142	0
•	Houghton Marine Band Muddone, down gray, with insortione budy	******************	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,,	
,	leves and robules; 101-in ironstone					
	band @ 149/8 (white ordists is to 41.)	*****************				
	Clanglite; Tomaculum & (preserved in troubone) below 166/6; forcoids; lique		,,			
* *	C 158/2, 162/3, 165/3, 167/4, 169/7, 171/11					
	and 175/4: Ordinlojden & 168/1: foramijan, Nuclid Tamellikanies					
	@ 163/4 ad 104/-; gatopode 169/5;					
	fix spine c 172/11	34	6		176	_6
	Multime, dark gray will band of pyrites in love part; scalland plant defini					
	and a "Rew 'mussel' Knimet	!	6		178	0
	Multime, gray with ironstone bands; Southerne laminal above 180/9;					
	plant deling	4	4		182	4
	Multine, dark gray, with insortine bands	r	ב		183	11
	Street lin. Gree 2tim.					
, ,	Dick Oci-				ا امنا است	
	Gel Him. / 19in.		6	J	185	
	Cral Odin.				-00	<u></u>
	But with cool bank 101:			*		



Name and Number of Shaft or Bore given by Geological Survey:

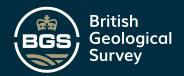
Paltaton Colling Boulde

6' Quarter Sheet.

GEOLOGICAL	DESCRIPTION	THICKNES		DEI	TH	
LASSIFICATION		P	1		Fr	1,
				from 1	85	3
	Seateanth dank gray mudstone		- 4		85	
	Scattenth, brown to are, moditione,			1		
	becoming hande aboutmouls;					
	Sphoendi Leite below 189/6	6	9	14	12	6
	Inteladed light grey endlove and				<	
	gray mudlione or silty multime					
	Sporadic working wollies and bank,		,			
	plat delas	<u> </u>	<i></i> _		97	
	Sententt, brown to gray mudione; much					
	large inouetone modules belon 201/6	7	4		64	
	Modroe very secondy dante				and the foreign	
	Sandtone above 206/3, ironstone					
	hidnes; ahundant plant dehis		9	-	,1Ó	Ð
			7			
	Gal 16 in.		4	2	رع	C
	Seatrant, grey mustone, becoming san	4				
	dormands	7 _	4	121	2	4
	Sudfare light grey with multime					
	bando and partings Islaw 217/7;					
	mostles in 15 2 st 9 in.	8	10	2	21	2
	Multine grey with sporadic numel				***********	,
	plant delvis at too	12	6	2	.33	8
	Slale dark every with sporadic free	************	ļ	*****		******
	fragment; 2-in ironstone bando					**********
	136/1; band a Care of Stell,	,				
	pronotone with God incluing	4			38	
			3		38	_ک_
ļ	Cool 7:n. (bin. recovered)		7	•	38	
	Senteauth gree silly mediane with	,			38	
	Sententh grey gilly muditore with inoutione andule in top 1 11; paper					
	dom 5:-	3	11	2	42	9
	Mudkone, grey silty in too Roll: a					
	Mudtone, gray, silty i top Rolf; a	3	4	2	46	
-	Middone grey, silty with band of light grey sands fore above 254/					interest na
	Eight gray sands tone above 254/-,		ļ			.,
	rumerous sanditone faminal hels	<u>~</u>	 			**********
ļ	258/6; very abundant plant det	wo 21			,7	
!	Millore, and	7	0	1	14	
ŀ	handone		2_	2	14	4
ŀ	Mudsone, dark grey, with this is not	2	 			***************************************
-	hands sporadic fiel and impall			0-	76	4
	Scateart, brown to grey mudfore	<u>a</u>	0	2	0	
***************************************	with numerous lake ironstone					
	nodules below 281/-; passing					
ŀ	dom 5:	6	11	28	3	3
•	•		11		-	
ľ	. '					
	A A A A A A A A A A A A A A A A A A A					



	Number of Shaft or Bore given by Geological Survey:		c	ounty .	Щ	NE	
	Palterton Colliny Borelole	·····	6	" Quart	er Sheet		
OLOGICAL	DESCRIPTION	7	HICKNE	58	1	DEPTH	
EIFICATION			FF	· in		Fr	_ _
· ~	Muditore, grey, silty above 293) -;	·····	<u> </u>		from	283	اح
	managers ironstone nodules and a f						-
•	Shale donk cover with 'mursely': also		13			297	
,	ostmado belon 306/6		10	4		307	
	grey below 6 312/ showled	danhe -					
		Lel					
	CLOWN When		9	0	<u></u>	316	-
	Chal 45in.	,,,,	3	9		320	,
-	Seatenty, making parmy from do	4					
	silly i love part; a few son	tteres					
ŀ	Mudtone, arey silty with sandfine	L	5	3		325	5 4
		ba.d					-
. [Mustine every with involone band		12	4		337	,
	lenses a 'mussel' at 340/2		5	6		343	4
]		K.				21. 3	
	Mudtone dark gray, with 3-in. com-	ч		2	***************************************	343	(
-	band @ 346/2; rane fish	J					
	Ironstone		<u>3</u>	5		347	C
	Manton Esterin Band		•				
.	Mustre, dale grey, with Estly	<u> </u>	2	4		349	•
. -	Muddone, dark gray, stigly silly						
	cott plant defins Seateault, brown multine ; innstone			1		351	4
-	nodule and patriles of spheriosideids was 353/3	b~					
	Mudtore may the becoming fail of	and	6_	2		357	6
· -	gray below 371/6 and donk gray below 392/3; silly i pont in the	ر م					
	pontone nodule and the bank	211	26	10		384	Ų
-	God 19:2.						·····
3	extently gray multine : insustance and	Lule		7		382	
	below 388/2: paying down 5:		3	1	-1	327	C
	above 39419: Land gren band	als.			•		
-	394/9; plant and rostert		7	4		396	4
·	Cool Olin,					•	
.	Olin 2in.			2		396	6



	umber of Shaft or Bore given by Geological Survey: Pallecton Colling Boralda DESCRIPTION Besteath data gray to gray making an abundant plants Besteath gray mild inorstone naduly an abundant plants Besteath gray multime Shale dark gray multime Shale dark gray multime Cord Din. Dist 15 in. 3in. Cord of in. Dist 15 in. 3in. Cord of gray Silty multime will roytists gray silty with sporastic particles as plants abundant in the nadule of the plants of the gray silty with sporastic particles and consistent gray multime Wilton gray silty with inorstone making and consistent gray multime Wilton gray silty with sporastic plants and a fine of the gray multime Wilton gray silty with saddone consistents Cord strades Latenth gray multime with sporastic plants of silty with saddone consistents Cord strades Latenth gray multime with sporastic plants of silty with saddone consistents Latenth gray multime with sporastic plants of silty with saddone consistents Latenth gray multime with sporastic plants of silty with saddone consistents Latenth gray multime with sporastic plants of silty with saddone consistents Latenth gray multime with sporastic plants of silty with saddone consistents Latenth gray multime with sporastic plants of silty with saddone consistents Latenth gray multime with sporastic plants of silty with saddone consistents Latenth gray multime with sporastic plants of silty with saddone consistents Latenth gray multime with sporastic plants Latenth gray multime with sp			unty	DN!	E/19	
Name and			6"	Quarte	r Sheet		
		·			,		
GEOLOGICAL ASSIFICATION	DESCRIPTION		HICKNESS	T :		Desta	η
			FF	12.		F+	-
	S. Fr. H. A. I. C. S. F. T. C. S. C.		-	2	1	316	-
	la attack and a teleform		3	13		399	2
	M. de-a sate will be at - a and to		ļ <u></u>	5_		700	_
	ahanda le alaule	ممد		3		401	5
	Septemble of middless of Slike dank from Cook Streets and abundant of Cook Streets and abundant of Septemble of the Septemble		<u> </u>	5		401	lo
	Partie H Gal - million			6		402	
	Stale dark over Cartonaceon	~L£	<u> </u>		<u> </u>		
	Coal Sheeter and ahundant a	4t	†	-5		402	9
	Cool Zin.	******		2	·····	402	11
		····	1	0	<u> </u>	403	77
	Bestearth dank grey to grey mustone Ironstone with rootlets Mustone oney with inoustone would are should grey mustone. Sectionally grey mustone. The grey authorises will cont streets and abundant plant. Cool 2in. Cool 2in. Cool 3theolog and abundant plant. Cool 3tim. Dick 14 in. 3in. Bool 1 in.) Seateanth grey mustone. Cool of in. Mustone, grey silty with sporadic rootlets are plant; abundant in the machine. Restearth grey mustone. Mustone grey silty with inoughous machine and carmes; sporadic plants and at Go, prootlets. Seateanth grey mustone, with sporadic plants and at Go, prootlets. Seateanth grey mustone, with sporadic plants and at Go, prootlets. Seateanth grey mustone made and bands and inoutone made and comme and inoutone made and comme and inoutone made to plant debrie; inoutone band and camme and inoutone bands and camme and inoutone bands and camme and inoutone bands and came grey will prootly-preserved musch thank grey will prootly-preserved musch musched thanks of and abundant inversely. Muddow, dank grey will prootly-preserved musch. Muddow, dank grey will prootly-preserved musch. Muddow, dank grey will prootly-preserved musch.		7	3	Ţ	405	2
							
						<u> </u>	T
				3	[405	5
	end lin.)	,		-		777	
	Perton H are silter multing until	····		†		·	
	profile accorded i important		2	3	·	407	8
				-			
,		14.		-		<u> </u>	
	not le	-	2	a		409	u
	Centerett are multime			2		411	
	AA AA		-	-		3-11	X
							*
	thank and at the most late		4	9		415	a
	U A AA	4.7		-		3,9	
	end strake			2		416	11
	Mudden are silty with suffrage a	المحاركية	_				X-4
	and much and management and well				***************************************		
	bands dut mobilet at to		5	7		422	0
	Mudtone as clumby with abunda						
	plant circl Sheek					423	1
				7		423	
	Sandfore light were inthe nortlets	*********		Н		425	
	Mudfore are silly will sandone but	4	ļ 4				
	and comminde and insufface modules						
	3-in. inoustone hand to usu/						
İ	don't debis: smallent 'numel'						
	hom 432/2 5 433/9		10	5		436	0
	Multare gray, will promotive bands and	L		-			
	lende		6	7	**************************************	442	7
1	Multone, gray silty, with insustance bank	4	······································				
	and abundant 'mussel'	.,,	ľ	10		444	5
		eL'	2	0		446	
	Mudder, dark gren & aren : silka be						
:	the silks downward and nearly	: 115					
	on only slighth with below wh	41-:					
	on only slightly silly below us immsely; a few ostracod at 46	110	24	5		470	10
		† · · ·					



	10008/W101875 8,000 4/86 JCAS Gy000			unty	1 pV	C	8
Name and	Number of Shaft or Bore given by Geological Survey: Paltexton Colliny Boralde	••••	6*	Quarte	er Sheet.		
······		7	HICKNES		!	Д вртн	· · · · · · ·
BOLOGICAL BRIFICATION	DESCRIPTION		PT	i.,		FH	1
					700-	470	10
	Multine dark and will him a ule			9		471	7
	TWO-FOOT (Top head)						
	Gae 20 in. (15 in. of pagnet	***************************************				4.72	-
	Seiteantt dark gray multone bear	بحب	1 1	8		473	4.
	silty downwards; inouston w	nel					
. •	Two-FOOT (Rotton Lead)	***************************************	6	2		479	5
	Cool & 23in. (19in. recovered)	1	11		481	4
, ,	Seateant, oney mudding		_	6		481	10
	making any silve in part ; irongh	_					
	Randy bands below 497/4:						
	plant debin		16	u		498	9
	Mattere, dark only, with Contonace	,		2		498	11
	FURNACE_			_		410	<u>!</u> .L
	Coal (we traphetany i						
	Centralt, gray multone with inon	tore	2	0		<u>500</u>	<u> </u>
	hodules in middle part	1000	3	9		504	8
•	Core missing		L	1		202	9
	New year silly trilly			Ц	***************************************	506	8
	sandytone band about 515/4:						,
	Scallered ironstone nodules and					_	
	Centerett, grey mudfore, passing don	<i>k</i> '-	11	8		518 520	
	Mudtone, gray, will plant delin	- 43 .	l	11		522	8
	Cool lin.						
	Sesteout, oney mustone, becoming			.		522	9
	silly at bottom; ironstone note	l.					
	below 523/9		2	9		525	6
	Muddone apen silly; ahundant fale-be bands of sandware below 532 (6;	led.	1411.AFFEREN				
	mottlets at top; plant deline		11	6		537	0
	Sandstore, Eight grey this - gowied,						
	Contonaciono malta i edditis t	4		,			n
	Scallered Consonaceons plant del	ز منا	·····				
,	ironstone pulles botures 565/9 - 567/9	- 	27.	a		571	
			34	9_		- /1	9
	Cont (Mille records 17:n.; 10:n.	,					
	Sestearly grey multiple with county bands is hotter part		_1_	5		573	2
	bands in bottom and		2	0		<i>5</i> 75.	2.



SULNE 18 (2781) *Dd0586/Wt64575 5,000 4/55 JC&S Gp669 Name and Number of Shaft or Bore given by Geological Survey: Paltaton Collieny Boulde 6" Quarter Sheet..... THICKNESS GEOLOGICAL CLASSIFICATION DESCRIPTION F1-Fr ià. 575 2 Interbanded gray Silty mustone by It grey sand tone; nortlets in top 2 ft; passing down to: -579 2 4 0 Mustone, gray, silty in porty with 4 583 6 Muddine, grey, with Spreadic frontine bands and large.

Muddine, dark grey, with musseld's below 586/1; 9 585 3 this ironstone bands; sandstone ba in bottom part 61 588 92 Cool 13 in. 101 in. 101 589 8 Sesteatt, grey silky multone, will involve nodules in bottom Ift. 3 0 592 8 Mustere, grey, silty, with sandy lan 4 596 0 Muddone, darle gray, will plant delins 2 517 Interbuled dark gray mulkone and light Sesterett, grey multime, with laye 100/9; 5:14 599 8 Multine gray Silty; rostlet at top; plant 7 1 602 3 Mudfore, oney silty, with sandstone has ironatione and less and bands, and plant definis 19 8 627 8 gray to dark gray, with my mel and this belly ironstone bands; control 2in. 10 630 6 God (break people 37., a few papert recovered with approximations 630 9 5 632 2 , his-gravied 635 36 671 672(3); Witness, box soll and w insisting bands 10 4 682 0 685 5



	Number of Shaft or Bore given by Geological Survey: Palteton Colliny Borelse			unty	Er Sheet		5
		7	THICKNESS		1	Дертн	
GEOLOGICAL LASSIFICATION	DESCRIPTION		FI-	iù.		Fr	1:
	8.4.4.				ha	685	5
	Seatenty gray middone will irons! nodules in love part Seatently, gray silty muddone		(7		687	_
	Sectionth are silly modified		<u> </u>	6		687	
		H					
	Cone Cost		_	9		688	3
	Cone lost			9	ļ	689	0
	Base of Borable at	- 694	/				
		1001	/ - -				ļ
				 			
•		,		*			
	•						
	•		***************************************			***************************************	

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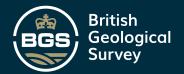
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	nantan tahun t					······································	
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	mber of Shaft or Bore) (
	MICIENTON COLLIERY BOKE HOLE				Pa
For Messrs	N.C.B., No. 1 Area, East Midlando Divisios	6-inch	Man		
Town or Villa	gelalkutor	Regist No.		.ela:	2
	Cee altacled plan SK 41018 4594 69 280 yd N. 79° W of Doc Lea Bridge	20 Attac a m map	h a tracing ap, or a sl , if possibl	ketch- e.	
Level at which	hich made To prove quality of cools as records in shaft commenced relative to O.D. +243.52 ter cases give angle of inclination and direction				tal (
Made by	Royales Rome 1881.				
Information fr Specimens	om Core examination by E.G. Smitt Date of	of Sinking	1958		
	Additional Notes in Space Overlea	Í			
For Survey use only) GEOLOGICAL	NATURE OF STRATA	THICKNES	5	D ертн	
CLASSIFICATION		Ft	ıà.	FF	1
UPPEI2					_
CARBONIFEACUS		19	6	. 19	6
VESTPHALAN	Sandtone, Soft brown-any micaccours	٠			
В	(core frametany)	క	6	25	- 2
. (4 ft of come missing between 19 ft 6in. as	u	0	29	-
	Mudtone, gray silty; plants above 354		6	4-3	-
,	Mudsone, faile dark gray: 1-in shell	1			
.	ironstone @ 46 H 2 ing; sportate pla	47			
come /	hagnets; poor stells above 48 ft.				- -
broke 73A	for scale of base	10	3	<u>53</u>	9
	Shale, dark oney, silty and miraceons 54 ft 10 in: 2-in. ironstrue band wi	below	-		-
- 1	poor nuncl" frequels at 55 ft 6in.	W			.,
- 11	Sporadic plant frameto	_ a	0	55	9
V	Mudtone, grey silly, will plants	(17	3	73	C
	Mustone, oney becoming darker downwa	_ هم			-
[and dark gray below 82 ft; 23 1		_		-
	ironstone band at 88 fr Gin.	18	8	91	2
•	Mudstone, gray with ironstone band on		-	02	-
	sprace prant framers		4	93	
,	Coal lin. (Driller's Huzlers; Roogness	·			
Ì	recorded)	-		93	
	Scatcarth, dark grey mudstone		2	93	3
, ,	Seateanth, brown mustone, with patches				-
	of sphaerosidents	8	4_	101	17
:		Court	inued	Overleaf	-
				//	1



	Palterton Collieny Boselole		Le	Quar	er She	4	D
_	<u> </u>	-	HICKNE	SS	1	Depth	
Geological Classification	DESCRIPTION		F	- in		Ft	in
					from	101	7
I ESTAHALIAN	Seatenth, dark gray mustone, with in	ms/ac	ļ			ļ	_
R	modules in love part		2	. 5	<u> </u>	104	0
	Multione, donk gray, wilt nootlet; ironstone modules above 109 ft 3 in a					ļ	_
	in littom 1 le ; shor fragment at	-			ļ	ļ	-
	111 ft 8 in.		9	9		//3	9
	Soul 13 in.) Dint 22 in. { 38 in.						
			3	2	<u> </u>	116	<u> </u>
	Sectently gray multone		t	4		118	3
	Mudtone gray wilty; pyritised rootles;						
	60 184; plat delis; runerons irons	bre					
	Interested grey multare or silly much		4	9	,	123	0
	and eight every sandtone; plant de		8	4		131	4
	V						
	God 8in.			8		132	0
	Section to hand gray silly		3_	9		135	9
	Multone, grey silty becoming darker of below 134/-; 3-in inonetone borne	ney_		ļ			
	@ 140/1		6	3		142	0
	Haughton Marine Band					· · ·	
•	Muddone, dark gray with ironston	و يسر					
	leases and nodules: 105-in innertand	_				<u> </u>	
ŀ	bank @ 149/3 (white oplithe is to	4-)					***************************************
. [(rostore) below 166/6; facoids? le	ala					
		71/11					
	ad 173/4: Onsimbode @ 168/1						
	foramifera, Nuclid Tamellilon	es					
	@ 163/4 ad 164/-; gatropode 1 Fix spine @ 172/11	69(>;	34	6		176	6
. [Multone, dark gray, will bonds of pyrif	š.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u> </u>	
-	i-lave part; scallared plant def	<u>ن</u>					
. -	and a few 'musel' hamet			6		77	0
-	Mudtone, gray with invalore band; Southour laminae above 180/9;						
	plant delvis		4	4		32	¥
r	Undlove Lank gray, with in one bank						
	plat deliis			7		173	ją
· · -	Suley cord lin.						
·	Gree 24in.						
. [Duk Oti-						,
	Ge 12:n. / 19:n.		1	6		2//	
	Die 12;.					85	



Name and	Number of Shaft or Bore given by Geological Survey: Palterton Colliny Borelole		6"	Qyarte	T SI- A A	5
		1 .	HICKNESS		DEPT	
GEOLOGICAL .	DESCRIPTION		P	i.	<u> </u>	*
· · · · · · · · ·					10m 12	१८ इ
IESTHALIAN B	Sestement, donk grey muddone,			4	18	25 9
	becoming hande downwards;					
	Schoent Feile below 189/6		6	9	19	2 (
	Intelanded light grey sandstone as			-		
	grandic ironeline mediles and band			ļ		
	plat delas	· ·	5	1	19	7 7
	8 4 44 4	······································		5	*	
	large ironstone modules belone 20		7	4	20	4 1
	Mudkae gray becoming donber i					
	bottom 6 in ; band of light gren	<u>.</u>				
	Sandtone above 206/31; ironstone					
• \	hodules; abundant plant debis		_5	9	20	o 3
					21	2 6
	Gal 16is		1	4	3.1	ع بد
•	Scatterett, arey multone, becoming s	and y		4	212	2 4
*	dominands					
	bando and partings below 2-17	77 :				
•	mother in 65 2ft 9in.		8	10	22	. 2
	Multine arey with sporadic nume	(:	7			
	glant deline at top		12	6	23	3 8
	Slale duk grey wilt spoudic free		,			
	fragment; 2-in ironstone band					
	36/1; but a lane of stell	7				
	fronting below 237/3		4	4	23 23	- 1
,	pronstone with Goal incluing					داه
	Cool 7:n. (bin recovered)	,		7	23	8 10
	Senteanth grey silly muddone with					
	inoutine abdule in 650 1 Pt; pa	وسو				
	Sentearth grey silly muddore will insurface adule in 65 1 ft; por down 5:-		3	<u> </u>	24	2 9
•	Mudsone, gray silty i Go Ralf; few porticits	^				
	Jan wille		_3_	4_	24	16 1
•	Muchone grey, silty will band of eight grey sands tone above 254	<u> </u>				
	numerous sandsome Jamine	elow	······································			
	258/6; very soundant plant a		24		26	7 2
	Mustone		7	0	27	
	lame to a			2		4 4
•	Mudstone, dark grey, with thin is	nstone				
	Mudsone dark gray, with this is hand; sporadic fill and mu	rel'				_
•	- Maries		ည		27	6 4
	Sestement, proun to grey muditions	·				
	with numerous large ironston	ع	·nii,			·
. ,	hodules below 281/-; pasidom 5:	7 -	6	77	283	3 3



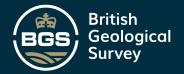
Name and	Number of Shaft or Bore given by Geological Survey: Pallerton Colliny Borelole		6	Qyar	DE LIC	4+74 -
GEOLOGICAL	DESCRIPTION	1	THICKNE	\$9	E TEN)
LASSIFICATION			FF	in	-	
STPHALLAN	Mudstone, grey, silty above 293)-;		_	-	from 28	3 3
B	numerous ironstone nodules and a far					
. •	Shale dock come with 'number'; about	dani	13		29	7 2
•	ostracodo below 306/6		10	4	30	2 6
	Mudstore, grey, becoming gradually of	mhe	-			
		أجد	ļ			
	faguet at bottom		9	0	316	6
ř	CLOWN USIN.		3	9	32	₀ γ
j	Seateenth, making passing from dark					
	silly i love part; a few san	<u>ن</u> خ				
	ironstone modules below 321/9.	un	5	3	32	5 6
		and				
	integred below)	4/-,	12	. 4-	33-	7 10
	Multione, grey will investore band,	L				
•	bonstone will contacted bands of dank		5	6	343	4
,	Slule			2	343	6
	Mudtone, doub gray, with 3-in. camery band @ 346/2; pare fish					
	- homek		3	6	347	10
	Manton Esteria Band			_5_	347	5
	Mudtone, dark grey, with Estler	خ				
	and high		2	۴	340	7 9
	Mudtone, dark grey, slightly silty with plant delins Seatearth, brown makine; innertone		<u> </u>	7	351	4
-	Seatearth, brown mattere; inoustone			k		
-	mobiles and patriles of spherosidelike belo		6	2	357	1/-
	Mudkove, gray the becoming faily old gray below 371/6 and dark gray below 382/3; silty i pout in the	4	<u> </u>		331	٠
47	gray below 371/6 and dark gray	- 4				
	portale while and the bands	317	26	10	384	4
, ·	6.1.10:					
	Gol 19in. Seatement, grey multone ; jungtone made	e		7	385	<u> </u>
	helm 384/2; pming down 5:		3	1	399	0
	above 394/9: dark one hand	6				
	Seatements, grey muchtone; insortione nodes below 384/2; passing down 5: Muchtone, grey, Silly with insortione would shove 394/9; dark grey band so 394/9; plant and rootlets		7	4	396	4
7	Cool Ožin.)					
	Oin- Ot in { 2i		-	2	396	6
	Core lin.					



	Palte	ton Collie	by Geological y Borekol	e .			6" Qua	r A		Ę
SOLOGICAL	9.	DESCRIPTI	. ·			THICKNI	188		Dигти	
BSIFICATION		DESCRIPTI	ON .			F1	- 1.		FF	-]
STPHALIAN	Sentements d					_		Tre		
зитници В	Ironstone	ark grey	- grey m	nostone		3			399	
			inonstone		0			-	_ ५००	2
		dant plan				-	3	-	401	5
	Ironstone					_	· 5		401	
	Seateenth.	······································	udstone				- 6		402	
		ule gray	Carbonac	eon, i	nee					
	Conl	streetes	and about	dant p	lant		+5		402	- 9
	Cert	2in.	***************************************				_ -		- 4-5	
	Conly shall		***************************************			<u> </u>	0		403	- !!
	Sentents,	grey mus	etone	•		,	3		405	2
		1								
1		02 in.)								
ŀ	Gal	14 in.}	3ix.				− 3		405	5
ŀ	0	man silty	n., St.	e, with					_	ļ
	rootlet	nesewe		-Store		2	3	-	407	8
. [grey silty			.,,,,					<u>.</u>
	<u>tostels</u>	and plane	E abund	ant iro	stre					
	nodile,				,	2	2		409	lo
	Seatlants,	grey m	More		.,		3		411	
-	Mudstone, a	ney silty	<u>, www. 10</u>	clove	ع	····				-4
,	plant-	ad at	ses; spo	el-		4	7		415	<u>a</u>
	Seateautt a	rez much	one, will		ملتح		4			
		meluko				L	2		416	"
<u> </u>	Undrove, an		will sad	A. development difference Leave	mire	····				
. -	and build	e, al non	stone mod	we a	<u>.</u>					
Ī	Mudfore, q	plants;	7001 COS 6	~ C39	-	_5_			422	0
L	blank.	CONC SIN	alis		4				423	1
3	enternto, c	men mud	Hove.				7		423	
كا .	andlose t	in the grey,	inth moot	lets		1	И		425	7
1	Mudfore, a	ey silly , w	ntl Sanduts	ne band						
ļ		malone ba	anest one no	dulles !					-	************
	sant de	onatione bar Suis; assur	lant 'nu	els.		4			·	*********
		432 3 G	t33/9			10	5		436	0
	Mudtone gra Cerres	y, will in	notone ban	ds and	_					
. -	Milter		· · · · · · · · · · · · · · · · · · ·			6	7	····	442	7
-	Multone, are	y silly, will will have	سوالاستهام	e band	2			····		·············
· .	Cank, grey,	with more		100	<i>,,</i> ,	2	10		444	
	Muchan, da	she gray G	gren : Si	I'm helen			<u> </u>		770	
										······································
	on onl	3 SIAUS ; a few	silty but	5w 486	از-/					
L L.	musel	; a suri	Ost many	at whil	10	4	5] "	470	10



	Palterton Collieny Boralde		6	Quart	f She			
	DESCRIPTION	THICKNESS			DEPTE			
GEOLOGICAL LASSIFICATION			FI	- i		F+	e.	
ESTPHALIAN	Two-Fort Marine Band				Tw-	470	10	
B	Muddone dank gray with Lingula	·····		9		471]	
	TWO-GOOT (Top head)			-				
	Cool 20 h. (15 m. of fragment recovered)		- <u>-</u> -	8		473	2	
	Sentement, dark grey muddone, bear	رد						
	silty downwales; ironston whe	ين الم	6	2		479	5	
	Two-FOOT (artton Lead)						,	
	Cool & 23in. (19in. recorded) Seatent grey muddone			11		481	4	
	Mudrone, grey Silly in part; ironshoe					 01		
	Randy bands helm 485/7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************	·····		
	landy bands holon 497/4;		16	II		498	9	
	Multone, donk only, with conforaceon	-						
	FURNACE.			2		498	11	
	Cool (core trapmetary i							
	Secteantly are much one with inouton		ည	0		<u>500</u>		
	nodules in middle part		3	9		504	8	
•	Come missing		1		· .	202	9	
	Mudfore gray very silty tilly;	.,		u		506		
	sand tone band above 515/9;							
,	Enter i monstone nodule, and Enter : slant hapment		11	2		518	4	
	Seat coult, grey multine passing don to Multime, grey, will plant delies	·-	2	5		<u>520</u>		
	Mudkone, gray, will plant delis			11		522	8	
	Coul lin-					522	9	
	Seatearth, oney mudstone, becoming silly at bottom; ironstone notelle							
ļ	below 523/9		2	9		525	6	
	Multime gray Silly; abundant fale-belle bands of Sandfore below 532 (6;	e .						
	postlets at too; plant defins		11_	6	.,,	537	0	
.	Sandbac, Eght grey fine-grained in	H						
	contonaceous matter is addition to						10	
F	Scalled Consonaceons plant delis	<i>)</i>						
	ironstone public between 565/9 -		34	9		71	9	
	•							
	Cool (Mille record 17:n.; 10:n.		4	5		573	2	
	Seatenth gray mother, with county bands is bottom part							



Name and	Number of Shaft or Bore given by Geologic Palterton Colliny Bores	cal Survey:		County 6 Qua	er Sho	
			L	2.7		-
GEOLOGICAL CLASSIFICATION	DESCRIPTION	· •	THICKN	. T .	ДВРТН	7
				<u> - </u>	Pt Fac	-
IESTPHALIAN B	Interlanded gray Silly much light gray sandfore: 10	one and			ha 575	
,	top 2 ft; passing down	6:-	4	. 0	579	2
	Mudtone, gray silty in parl Sporadiz saultone boar	s with				-
	lamine M. 16		ų	4	583	6
	bands and langes	adic ironstan		9	585	3
	Multone dark grey with					
	this ironstone bands; sand			-2	59 6	-
	in bilton put		3	61	588	92
. (Col 12 in.)					
	Dint 6 in \$ 10\$ in. Coal 3 in.			101	589	8
						ļ
ŀ	Sestearth, grey silky muditors	, and ironsto	.4	0	592	8
	Mustare, grey, silty, with a	endy lamina	د ے		574	0
	Mandelone dade and willing	plant delni	3	2	<u>596</u>	2
	Interbused dark yey middone				59.7	
-	Seatearly grey multime will	lave	2	- 6	599	8
	i-onstane nodules below to	0/9;5:16				
1	in parts; passing down to Multime, oney silty: postlet	in the state of th	ہ ک]	602	3
ļ	delis			9	608	0
	Mudione, oney silly with s ironstone madeles and be	andstone la	4,			
	plant defins		19	8	627	8
	And the belly ironstone	with musel				,
	Calonellows with flats	- 6/th. 2:	2	10	630	6
	Cool (Brenate reards	32:0		ļ		
o	- Tens hamet a	(correct)		3	630	9
2 2	extent gray muddone and tone gray fine gray	hined	1	5	632 635	2
V	uddone, grey silty above	662/5.			633	
. [montane had so 669/31	(4-1-1	36	5	671	8
N	when dad no will co	markie Manatan				
	672(3); Witon Sin las	anmaced_				
	plant gamels, poor stell	al rumbon				***************************************
	HIGH HAZLES		10	4	682	0



GEOLOGICAL CLASSIFICATION	Number of Shaft or Bore given by Geological Survey: Palterton Colliery Borelste DESCRIPTION	6" Quap					
			F(-	12.		DEPTH	7.
NESTPHALAN	Carta H an all a sur al			-	ho	685	5
В	Seateauth grey muddone, will promote modules is love part Seateauth, grey silty muddone Seateauth, dark grey muddone, with		(7		687	0
	Seateauth grey silry muchone			6		687	6
	Cone Streaks Cone Cost			9		688	3
	Come lost			9		689	0
	· Base of Borelde at	681	/_			-	ļ
				,.			
-). •		
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<u> </u>		····		- II			

