

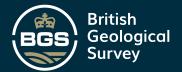
LIST OF SAMPLES,

No.2 Well, Hardstoft.

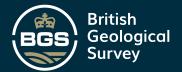
	Ft.		
	-25	Grey mud (? mostly cement)	
25	-30	π π	
	-40	n n	
	-45	11 11	
	-50	19 19	
	-55	TI TI	
	-60	Crey shale	
	-65	11 11	
	<b>-7</b> 0	11	
	-75	ti ti	
	-80	II II	
	-85	п п	
	-90	Hard sandy shale	
	-94	Bright Coal	
	-98	Coal, clay and fine sandstone	
	-102	Fine silt (? cement)	
	-104	11	
	-105	" " with shale	
	-110	Grey shale	
	-115	rt W	
	-120	Bright Coal	
	-125	" and fireclay	
	-130	Silt	
	-135	" with traces of shale, coal and	ironstone
	-140	Shale and fine sandstone	
	-145	и о и и	
	-150	Grey shale	
	-155	· Sandy "	
	-160	T T	
		` ss 11	

-165

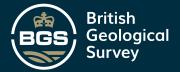
/ -170



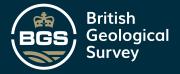
```
Ft.
          Fine sand
-170
-175
-180
-185
-190
          Sandy shale
-200
          Fine sand
-205
          Mud and a little shale
-210
          Sandstone and some ironstone
-215
-220
-225
           Fine sand
-230
-234
-236
-240
                     and traces of coal
-245
                  "
             17
-249
-251
           Dark shale and some sand
-255
                      , ironstone and traces coal
-260
           Sandstone and some shale
-265
                          dark shale
-270
           Dark shale
-275
-280
-285
-290
 -295
                      with coal and ironstone
 -300
 -304
           Coal
           Dark shale with ironstone
 -308
           Mostly fireclay
 -312
           Fireclay and shale
 -315
           Dark shale
 -320
```



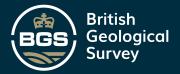
```
Ft.
-324
          Bright Coal
-330
          Dark shale
            " " with trace of coal
-335
          Sandy shale
-341)
          Dark sandy shale
-345
-350
          Soft shale and clay
-355
-360
-365
                      " " and fine sandstone
-370
          Fine sandstone
-375
                     , ironstone and trace coal
-380
-385
          Hard sandy shale
-390
          Shale and ironstone
-395
          Dark shale
-400
-405
                    and trace coal
-410
                    and coal
-415
          Hard sandy shale
-420
-425
-430
-435
-440
-445
-450
           Soft shale and clay
-455
           Grey shale
 -460
                      and coal
 -465
 -470
 -475
           Fireclay etc.
           Shale and ironstone
 -480
               and clay
 -485
```



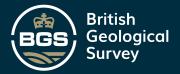
Ft.		
<b>-49</b> 0	Grey shale	
<b>-49</b> 5	11 II	
	11 11	
<b>-5</b> 00	" " with trace coal	
-505	u u	
-510		
<b>-</b> 515		
-520		
<b>-</b> 525	Sandy shale	
-530	Dark shale	
-535	" " and clay, trace coal	
<b>-54</b> 0	и и и и	
-545	Fine sandstone	
-550	п и	
-555	" " and shale	
-560	19 19 19	
<b>-</b> 565	Grey shale	
<b>-57</b> 0	Hard sandy shale	
-575	17 17	
-580	17 17 17	
-585	Fine sandstone	
E 0.5	Sandy shale	
-595	Soft grey shale	
-600	" " traces coal	
-605	n n n n n	
-610	<b>,</b>	
-615	Fine sandstone and shale	
-620	Grey shale and little fine sandstone	
-625		
-630	17 17	
-635	n n	
-640	ri 11	
-645		
-654	n n	



Ft.				
-659			, traces coal	
-664	11	11		
-668	17	11		
-673	17	11		
-678	Hard	shale	and fine sandstone	
-683	Grey	sandy	shale	
-686		grey :		
-694			and some sandstone	
-700	Fine	white	sands tone and hard grey shale	
-706	Hard	grey	shale	
-712	(BG*#)	11	n ( GG )	
-717	ii ii	19	"	
<b>-7</b> 22	7#	11	**	
-727	TF.	77	п	
-732	1.F	77	11	
-736	79	11	" (69)	
<b>-7</b> 39	n	tt	ii	
-745	17	17	" with traces coal	
-750	11	11	11 11 11	
, -755	it	11	11	
-760	n	17	n	
-765	(80")	11	n (BG)	
-769	11	Ŧf	11	
-773	17	18	" slightly sandy	
-779	11	17	π	
<b>-7</b> 83	11	17	"	
-786	IŤ	77	n (BC)	
<b>-7</b> 90	11	:1	"	
-794	n	п	TI .	
<b>-79</b> 8	n	n	u	
-802	***	77	17	
-808	П	17	(65)	
-813	<b>10</b> "	Ħ	11	



Ft.		
_813_	Hard grey shale	
-822	77 17 17	
-825	Grey sandy micaceous shale	
-832	Grey shale, slightly sandy	
-839	Fine sandstone with little shale	
-845	11 11 11 11	
-851	" " " " , trace coal	
-854	Coal and fine sand	
-860	Brown sandstone and little shale	
-864	б и п п п	
-869	п п п п	
-872	11 11 11 11	
-873	Grey mud and shale	
-876	Sandstone and little shale	
-879	Grey shale and some sandstone	
-880	" (cavings) and some sandstone	
-884	Mostly fine sandstone	
-885	Grey mud	
-890	Fine pale sandstone	
-892	Dark grey shalc (? cavings)	
-898	Sandstone and little shale	
-900	и и п п	
-908	11 11 11	
-911	Pale sands tone	
-913	" " and dark shale	
-917	π π	
-922	н п	
-926	п	
-931	11	
-935	п п	
-940		
-945		
-951	n n n / -957	)

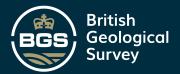


<b>#</b>	•								
	Ft.								
	-957	Hard	sand <b>y</b>	mica	ceous shal	le			
	-962	Dark ;	grey	shale					
	-967	17	7.0	**					
	-972	17	**	11					
	-980	19	11	**					
	-987	77	77	17					
	-997	11	17	**					
	-1005	17	11	**					
	-1011	11	**	**					
	-1016	n	11	11					
	-1021	π	11	77					
	-1031	Ħ	77	77					
	-1037	rt	77	17					
	-1045	11	77	17					
	-1055	11	17	19					
	-1065	11	11	11					
	-1075	17	17	17					
	-1084	17	11	17					
	-1090	11	TŤ	17					
	-1095	11	17	17					
	-1100	G"	17	17					
	-1105	"	17	17					
	-1111	"	77	17					
	-1118	11	17	17					
	-1125	78	79	17					
	-1135	11	79	77					
	-1145	17	17	11					
	-1155	17	17	77					
	-1165	11	11	17					
	-1170	79	f <b>T</b>	17					
	-1181	11	11	77	slightly	sandy s	maa n	nicaceous	
	-11.86	S t	ī†	11					
	-1194	"	**	14					

/ -1204



```
Ft.
-1204
          Dark grey shale
-1212
-1222
-1230
                           slightly sandy
-1235
-1242
-1250
-1257
          Dark shale
          Grey and brown sandstone, little shale
-1266
-1274
          Hard blue sandy shale
-1284
          Grey shale
-1292
-1304
                       slickensided
          Fine sandstone and shale
-1310
                         .rather rusty
-1316
-1321
                          and shale
                    17
-1326
-1330
          Dark grey shale
-1337
-1346
-1356
-1366
-1374
-1384
          Hard white micaceous sandstone and sandy shale
-1393
-1402
-1409
-1415
-1427
-1434
-1440
           Blue sandy shale and sandstone
-1448
           Blue shale and little sandstone
-1456
                                                            / -1464
```



-1464 Hard blue shale -1470 " " " -1477 " " " -1483 Hard shale, sandstone and Coal -1491 White micaceous sandstone -1502 " " " -1509 " " " -1515 Hard sandy shale and some sandstone -1525 " " " -1530 Shale and sandstone -1538 Blue shale and mud -1546 " " -1554 " " -1550 " " -1571 " " -1580 " " -1580 " " -1592 " " -1602 " " -1617 " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1636 " " -1645 Hard blue shale.	Ft.	
-1477 " " " " " " " "   1483	-1464	Hard blue shale
-1477 -1483 Hard shale, sandstone and Coal -1491 White micaceous sandstone -1502 " " " -1509 " " " -1515 Hard sandy shale and some sandstone -1525 " " " -1530 Shale and sandstone -1538 Blue shale and mud -1546 " " -1554 " " -1560 " " -1571 " " -1580 " " -1580 " " -1612 " " -1612 " " -1612 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1470	11 11 11
-1491 White micaceous sandstone -1502 " " " " -1509 " " " " -1515 Hard sandy shale and some sandstone -1525 " " " -1530 Shale and sandstone -1538 Blue shale and mud -1546 " " -1554 " " -1560 " " -1571 " " -1580 " " -1580 " " -1592 " " -1602 " " -1612 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " "	-1477	11 11 11
-1502 " " " " " " " " " " " " " " " " " " "	-1483	Hard shale, sandstone and Coal
-1509 " " " " " " " " " " " " " " " " " " "	-1491	White micaceous sandstone
-1515	-1502	17 19 17
-1525 " " " -1530 Shale and sandstone -1538 Blue shale and mud -1546 " " -1554 " " -1560 " " -1571 " " -1580 " " -1586 " " -1592 " " -1602 " " -1612 " " -1612 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " "	-1509	п п п
-1530 Shale and sandstone -1538 Blue shale and mud -1546 " " -1554 " " -1560 " " -1571 " " -1580 " " -1586 " " -1592 " " -1602 " " -1612 " " -1617 " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " "	-1515	Hard sandy shale and some sandstone
-1538 Blue shale and mud -1546 " " -1554 " " -1560 " " -1571 " " -1580 " " -1586 " " -1592 " " -1602 " " -1612 " " -1617 " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " "	-1525	п п п
-1546 " " -1554 " " -1560 " " -1571 " " -1580 " " -1586 " " -1592 " " -1602 " " -1612 " " -1612 " " -1612 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1530	Shale and sandstone
-1554 " " -1560 " " -1571 " " -1580 " " -1586 " " -1592 " " -1602 " " -1612 " " -1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1538	Blue shale and mud
-1554 -1560 " " -1571 " " -1580 " " -1586 " " -1592 " " -1602 " " -1612 " " -1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1546	п п
-1571 " " -1580 " " -1586 " " -1592 " " -1602 " " -1612 " " -1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1554	11 19
-1580 " " -1586 " " -1592 " " -1602 " " -1612 " " -1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1560	н п
-1586 " " -1592 " " -1602 " " -1612 " " -1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1571	п п
-1592 " " -1602 " " -1612 " " -1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1580	п п
-1602 " " -1612 " " -1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1586	et 11
-1612 " " -1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1592	п
-1617 " " and trace sandstone -1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1602	11 11
-1621 Pale medium-grained sandstone, little shale -1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1612	
-1628 Sandstone and shale -1633 " (ganister-like) and shale -1638 " " "	-1617	
-1633 " (ganister-like) and shale -1638 " " "	-1621	Pale medium-grained sandstone, little shale
-1638 " "	-1628	Sandstone and shale
-16.98	-1633	" (ganister-like) and shale
-1645 Hard blue shale.	-1638	п п
	-1645	Hard blue shale.

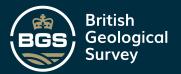


SK46 5W/2

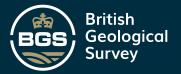
Second List of Samples.

No.2 Well, Hardstoft.

```
Shale, clay, coment, etc.
Shale, coment, etc.
Shale cavings, coment, etc.
Fine brown sendstone
1645-1660
    -1655
    -1660
    -1665
    -1470
             Sendstone and little shale
    -1675
    -1480
    -1665
    -1690
-1695
    -1700
             Shale and clay
    -1706
    -1710
    -1715
             Shale and sandstone
    -17E0
    -1786
             Dark chale and come sand
    -1780
-1785
             Dark shale
               辫
                     *
                          end clay
     -1740
    -1750
    -1786
                     *
     -1760
                     豑
     -1765
                     w
     -1770
                     #
     -1775
                           and clay
    -1780
-1785
-1790
               .
               *
             Sandy shale and fine candatone
     -1795
    -1800
-1805
                             *
     -1810
             Hard slightly sandy misacous
     -1815
     -1820
     -1885
     -1830
                                 *
                                                    *
                #
     -1835
     -1840
-1845
             Fine candstone and shale
             Shale and fine sandstone
     -1860
             Slightly micageous shale
     -1855
     -1870
                                                    [Belper Lawn Coal] No Q'K
             Shale and carbonaceous shale
     -1875
             Shale and coal
     -1860
     -1885
                                                                    No. O.K.
                                                    lough lock
             Shale and white candetone
     -1890
             White sandstone and shale
     -1895
     -1900
     -1905
```



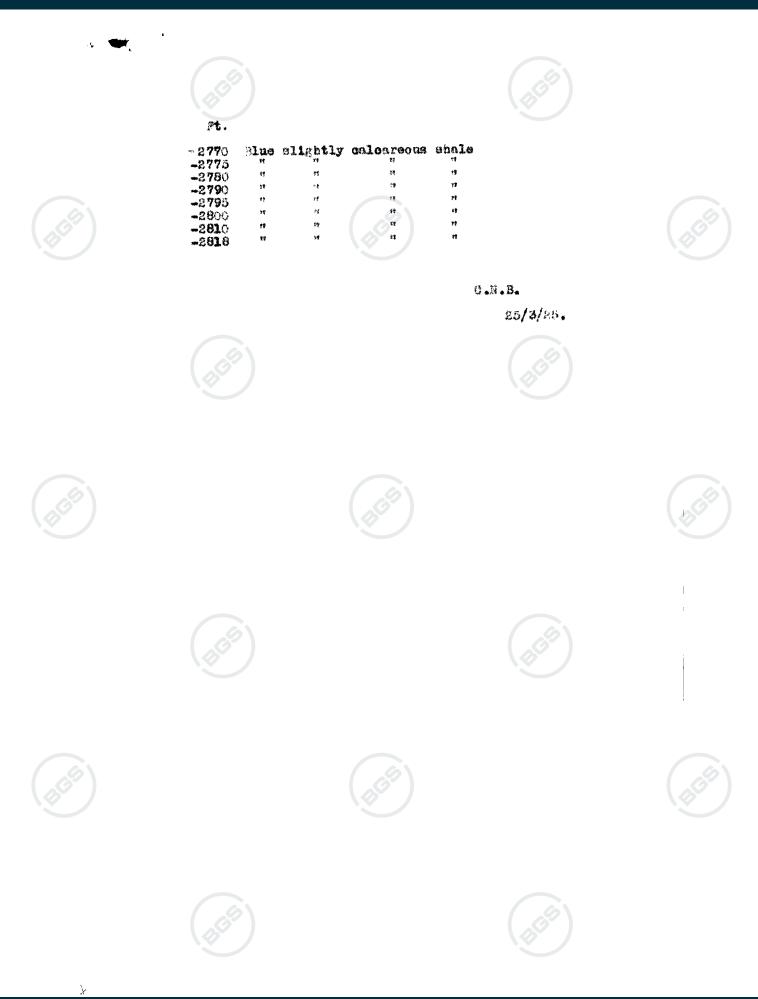
```
Bt.
     -1910
              Fine white sandstone
     -1915
                 77
                       74
                                  57
     -1920
                       44
                                  #ŧ
                 **
     -1925
     -1930
                 *1
                       11
                                  79
                                  24
     -1935
     -1940
                 **
                       **
                                  **
     -1945
                                           and little shale
                 17
                       35
                                  18
     -1950
     -1955
                 **
                       4
                                  11
                                  18
     -1960
                       Ħ
                                  78
                 17
     -1965
                                           and shale
     -1970
                 11
                       75
     -1975
              Sandy shale and white sandstone
     -1980
              Sandy shale
     -1985
     -1995
                 11
     -2005
              Shaly sandstone and fragments white sandstone
     -2010
    - 2020
    - 2030
- 2035
                *7
              Sandy Shale
    - 2040
              Fine sand.
    - 2045
                            shale and cement
    - 2050
                18.00
    -2055
                       12
                               **
                                     11
2055-2085
              Fine
                    sandy micaceous shale
     -2090
                                                 and shale cavings
                 54
                                  35
                                            78
     -2100
                15
                                            æ
    -2110
                **
                       14
                                            t#
    -2120
                                  18
                **
                       11
    - 2125
                       99
                                            **
                38
    -2130
    -2140
                e,
                       17
    -2150
              Sandy shale
    -2155
                **
                17
    -2165
                        **
    -2180
                44
                **
    -2165
                - 17
                        ХŢ
    -2190
    -2195
              Blue
                    ebale
    - 2200
- 2210
                13
                       12
                77
    -2215
    -2225
    -2235
              Sandy micaceous shale
    -2245
    - 2255
                18
                           **
                                     69
                77
                           **
                                     Ħ
     -2260
                17
                           72
                                     钟
    - 2265
                           **
                                     ?4
    - 2270
                11
                           ü
                                     14
    -2275
                17
                                     **
    -2285
                Ŧŧ
                           77
                                     17
    - 2290
    - 2295
                11
                           **
                                     45
                                     Ħ
    -2300
                11
    -2310
                           75
                                     77
                           ŦŖ
                                     92
    -2315
                **
                           47
                                     11
    ~2325
                71
                           28
                                     桦
    -2330
    -2335
                           48
                **
                                     51
    -2340
```

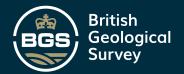


Ft.							
-2345 -2350	្នុចដំនួ	r mlo	aceous	ebalo			
- <b>236</b> 0	£9		r#	# <del>†</del>			
- 2365	10		79	<b>F3</b>			
- 2375	18		**	45			
-2360	14		78	4.5			
-2385	27		r‡	#1			
-239⊜	<b>~</b> \$		**	#1			
	ž <del>ė</del>		*1	uy.			
-2395	18		91	11			
-2400		* *					
-2410	Mue			\O` /			
			anoeous	anale			
			stale	_			
			sand y	mi caceous			
-2440	78	79	, 7 <b>8</b>	ă. <b>4</b>	<b>7</b> 9		
- 2445	秤	775	74	£4	1¢		
- 2450	14	**	14	t <b>y</b>	**	and navings soft shale	
-2455	17	64	12	4.8	ŧŧ	•••	
-2460	89	14	**	59	**		
-2465	If	<b>5</b> 3.	4.2	***	X\$		
-2475	25	74	78	Ν¥	**		
-2480	11	28	শে	**	>5		
-2485	47	ĦŢ	**	11	#1		
-2495	19	7-#	78	**	<b>**</b>		
-2500	rt	19	7	>1	<b>*</b> ‡		
-2505	*1	**	и	94	+1		
-25\\ -2 <b>51</b> 0	19	22	z <b>ş</b>	*9	5\$		
	11	4.8	>2	24	17		
-2515	71	Y#	17	18	<del>8</del> 3		
-2520	79	77	18	**	#9		
- 2525	17	78	78	84	**		
- 2535	**	28	69	11	71 71		
-2540	53	Ligi	107		.3		
-2550	37 18	**		PT	15		
-2560	** **	59	57 2¥	¥ŧ	uş		
-2570							
- 2575	17	**	14	74	#		
-2580	#T	34	*1	74	**		
-2585	F\$	1\$	**	17	39		
-2595 -2600	lus	oligi	itly of	lonreous	elsde "		
-2610	26	24		79	ep		
-2615	79	5 €		*7	**		
-2625	717	17		*:	17		
-2630	78	T#		82	<b>F</b>		
-2640	17	M		21		fragments impure limestone	
-2645	11	57		H	49 19	HAR TO GET BELLEVILLE OF THE PARTY OF THE PA	
	**	**		11	17		
-2650	н;	35		15	* <del>*</del>		
- 2665	57	14		27		Manager orange prairies to see the second se	
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## SK4L SW/2//

THIRD LIST OF SAMPLES.

NO. 2 WALL, HARVSTOFT.

Pt. Hard dark grey-blue shale, slightly calcareous; 2819-2825 specs. of pyrites ditto \*\* Softer ŦŦ **4** traces of bitumen \* rŧ \*\* ## \*\* \*\* Harder traces of bitumen Hard dark grey-blue shale, slightly calcareous 粹 veined calcite \*\* \*\* traces of chert) Fine sand, minute quartz crystals with finely divided shale and little calcareous matter Black shale and little grey limestone Grey limestone and little dark shale ry a little chert \*\* \*\* 



