



Name of Shaft or Bore given by Geological Survey:

MARGAM BORE No. 4.

6-inch Map
Registered
No.

248/96

13

SS88/10

GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		Ft	in.	Ft	in.
	Mudstone; medium-grey, highly sheered.		8	1197	5
	Mudstone; blocky, medium-grey, slightly silty, with sporadic faint striping.	6	11	1204	4
	Sandstone; pale-grey, fine-grained and quartzitic.		9	1205	1
	Mudstone; medium-grey, slightly silty, with patches of striped beds showing false bedding and turbulence.	1	5	1206	6
	Mudstone; medium-grey, slightly silty, with scattered plant debris.	3	3	1209	9
20°@1214	Mudstone; massive, silty, with bedding planes crowded with plant debris.	1	7	1211	4
16°@1216	Mudstone; medium-grey, slightly silty, with plant debris.	8	10	1220	2
	Mudstone; medium-grey, highly sheered.	4	1	1224	3
	Mudstone; medium-grey, becoming gradually darker downwards. Ironstone bands: - 2 1/2 in @ 1226/-, 1 in @ 1227/2, 1/2 in @ 1230/8, 1 in @ 1232/6, 1 in @ 1235/-, 1/2 in @ 1238/10, 1/2 in @ 1243/-, 1 in @ 1243/10, 1/2 in @ 1245/8, 1/4 in (wormy) @ 1246/3. Muscels @ 1237/6 and 1236/6. Passing into:-	22	1	1246	4
11°@1245	Mudstone; dark-grey, rather badly sheered. Passing into:-	1	6	1247	10
	Slale; dark carbonaceous, badly sheered	1	10	1249	8
	CORL (only 1ft 9in recovered)	5	2	1254	10
	Seatearth; medium-buff-grey mudstone. Passing into:-	2	9	1257	7
	Seatearth; medium-buff-grey mudstone with abundant sphaeroiderite.	1	8	1259	3
	Seatearth; buff-grey mudstone with scattered sphaeroiderite. Passing into:-		9	1260	-
	Mudstone; pale to medium-grey with scattered plant traces.	2	2	1262	2
18°@1265	Mudstone; medium-grey with scattered plant traces.	8	10	1271	-
	Ironstone		8	1271	8
	Mudstone; medium-grey, slightly silty.	1	9	1273	5
	Ironstone		9	1274	2
	Mudstone; medium-grey, slightly silty.		4	1274	6
	Mudstone; medium-grey with plant remains.				
	Ironstone bands: - 4 in @ 1275/8, 10 in @ 1276/1	3	6	1278	-
	Mudstone; dark-grey, slightly silty, with plant debris.	1	4	1279	4
	Mudstone; medium-grey.		1	1279	5
	Slale; dark carbonaceous with coal streaks.		7	1280	-
8°@1282	Mudstone; medium to dark-grey, with scattered ironstone nodules.	4	6	1284	6
	Rashings; dark structural		5	1284	11
	CORL		2	1285	1
	Slale; dark carbonaceous with abundant plant debris and scattered coal streaks.	1	8	1286	9
	Mudstone; medium to dark grey, with plant remains and numerous thin ironstone bands from 1289/- to 1294/-	7	3	1294	-
	Siltstone, pale-grey		2	1294	2

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GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		Ft	in.	Ft	in.
20° @ 1296/-	Mudstone; medium to dark grey, slightly silty. $\frac{1}{2}$ -in Ironstone band @ 1295/10	2	10	1297	-
	Sandstone; pale-grey, fine-grained		2	1297	2
	Mudstone; medium-grey, slightly silty.	4	1	1301	3
	Ironstone		4	1301	7
	Mudstone; ^{medium} grey smooth Irregular ironstone nodules in bottom foot.	2	3	1303	10
15° @ 1303/-	CORAL (1ft recovered)	2	8	1306	6
	Shale; black carbonaceous		1	1306	7
	Rashtings; black		5	1307	-
	Seatearth; medium-grey mudstone	1	-	1308	-
	Mudstone; medium-grey, slightly grey silty		2	1308	2
	Mudstone; strong, medium-grey, silty with sporadic patches of striped beds.	2	8	1310	10
	Striped Beds.	1	-	1311	10
	Sandstone; pale-grey, fine-grained.	1	3	1313	1
	Siltstone, strong, massive.				
	Examined to 1315/6				

(2781) *D00586/Wt64575 5,000 4/55 JC&S Gp889

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County **248/96**

6" Quarter Sheet **SS88/10**

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
				1313	1
	Siltstone sharp massive (1315/6)	3'	3"	1316	4
	passing into blocky medium grey slightly silty mudstone (1316/6)				
22° 1316	3" at 1331-3"				
	A little plant debris	8	4	1324	8
	Pale to medium grey quartzitic silt stone to		8	1325	4
	Medium grey slightly silty silty mudstone with plant debris		5	1325	9
	Hard medium grey siltstone		4	1326	1
	massive fine grained sandstone with carbonaceous partings	3	0	1329	1
	Blocky to medium grey mudstone, 1329/2"				
20° 1337	at 1330' 10", 3" 1334' 4", 4" 1337' 2", 8" 1342'	14	11		
	Coal 1' 6" recovered (1341)	4'	9"	1344	
	Partings		6 1/2	1348	9"
	Medium grey slightly silty mudstone scoured	1	8 1/2	1349	8 1/2
	passing into medium grey slightly silty mudstone with roots, with frequent ironstone nodules, with roots becoming fewer downward				
	passing into medium grey mudstone Iron stone 6" 1357	4	0	1355	0
18° 1363	5" 1358' 8", 3" 1361' 11" 3" 1364' 2", 4 1/2 1366' 11" 3" 1368' 7"	17	1 1/2	1372	1 1/2
	Dark grey shale		1/2"	1372	2
	Coal (Recovered 13")		5"	1372	7"
	Blocky grey mudstone with roots	3	1	1375	8
	Blocky medium grey silty mudstone with occasional roots & plant debris				
	Iron stone 8" 1376' 11"	3	6	1379	2
21° 1379	passing into medium grey blocky mudstone				
	Iron stone 4" 1384' 10"	6	1	1385	3
	Blocky medium grey silty mudstone	2	0	1387	3
	Pale grey striped silt stone	-	2	1387	5'
	Iron stone	-	3	1387	8'
	Pale grey fine grained sandstone joints coated with dickite	1	6	1389	2
	Blocky medium slightly silty mudstone	1	2	1390	4

(2781) *Dd0586/Wt64375 5,000 4/55 JC&S Gp689

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6" Quarter Sheet

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GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS			DEPTH	
					1390	4
	Pale grey, quartzitic silt stone with stiffed partings of medium grey mudstone	1	2			
	Sandstone 3" 1390' 10"				1391	6
	Medium grey slightly silty mudstone	4			1391	10
	Pale grey fine grained sandstone	1	5		1393	2
	Medium grey blocky mudstone	-	3		1393	6
	Pale grey fine grained sandstone	-	2		1393	8
	Medium grey mudstone	-	4		1394	2
	Stiffed bed	-	1		1394	3
	Pale grey fine grained sandstone	-	7		1394	10
	Stiffed beds with abundant plant debris	-	5		1395	3
	Blocky medium grey silty mudstone	-	3		1397	6
	Pale grey fine grained sandstone with carbonaceous partings	-	3		1397	9
16° 21396	Medium grey mudstone shales in part.					
	Sandstone 1" 2 1399' 10"; 5" 2 1400'; 13" 2 1403' 1"; 13" 2 1404' 6";	14	8		1412	5
	Passing into medium grey blocky rather silty mudstone					
20° 21411	with plant debris	3	7		1416	0
	Medium grey mudstone	1	1		1418	1
	Pale grey fine grained sandstone	-	2		1417	3
	Blocky medium grey mudstone					
	Sandstone 3" 2 1418' 11"; 1419' 10"; 2" 2 1424' 5"; 4" 2 1425' 8"; 5" 2 1428' 7"	2	9		1430	0
	Medium & dark grey shaly shaly mudstone	3	9		1438	9
	Core broken up showing both medium grey shaly mud- stone and dark carbona- ceous irony shale (shaly)	1	1		1434	10
	Very crushed coal & Rashes	1	6		1436	14
	Coal partly crushed.	2	0		1438	4"
	Rashes.	1	0		1439	4"
	Rashes & coal crushed	1	8		1441	0
	Coal	-	8		1441	8
	Coal & Rashes Rashes crushed	1	0		1443	6
	Clay	5			1443	11

(2781) *D40586/W164575 5,000 4/55 JC&S Gp689

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GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
				1443	11
	Coal	7	8	1451	7
	Roche	1	0	1452	7
	Superior coal	-	9	1453	4
	(18' recovered from 19'4")				
	Roche			1454	5
	Coal			1454	5 1/2
				1454	10
	Coal	2	0	1436	10
	Coal cones	1	6	1438	4
	micaceous rocks - grey	-	-		
	shale sides	1	0	1439	4
	mixture of coal				
	& Roche	1	8	1441	0
	Coal fragments	-	8	1441	8
	clay	-	3	1441	11
	Coal & Roche	1	7	1443	6
	clay	-	5	1443	11
	Coal	7	8	1451	7
	Including 1" band of clay in opposite well (same)				
	Roche - grey, brown	-	-		
	shale sides micaceous	1	0	1452	7
	Coal micaceous	-	9	1453	4
	Roches with thin coal	1	1 1/2	1454	5 1/2
	Black carbonaceous shale				
	scattered with coal streaks	1	6 1/2	1456	0
	Blocky pale & medium grey				
	micaceous shale	2	8	1458	8
	shale with irregular bedding	1	4	1460	0
	Medium grey slightly silty mudstone				
	with occasional pale stripes; iron ore				
	4" at 1462.9, scattered plant debris	6	7	1466	7
	striped beds, mudstone predominating		10	1467	6
	striped beds, silt stone predominating		8	1468	1
	striped beds, mudstone predominating	1	6	1469	7
	striped beds, siltstone predominating	6	5	1475	0
	pale grey fine grained sandstone				
	with striped bedding	1	8	1476	8
	striped beds	1	6	1478	2
	pale grey fine grained sand-				
	stone		5	1478	7
	striped beds, mudstone predominating				
	1" at 1480' 10"	2	11	1481	6
	pale grey fine grained sandstone		8	1482	2
	striped beds		7	1482	9
	pale grey fine grained sandstone				
	with striped bedding	5	10	1488	7
	ironstone		2	1488	9

(2781) *Dd0586/Wt64575 5,000 4/55 JC&S Gp669

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GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
				1488	9
20° at 1497.	Blocky medium grey mudstone; brown stone 5" at 1495.6, 12" at 1497.5, 5" at 1502.3 at 1504.8	18	3	1507	
	Pale grey fine grained sandstone with coal streaks	1	4	1508	4
	Coal	1	11	1500	
	Medium grey mudstone; calcareous		11	1510	11
	Carbonaceous shale &		1/2	1510	11 1/2
	Medium grey mudstone; calcareous with ironstone nodules	4	6 1/2	1515	6
	Medium to dark grey mudstone with plant remains, scattered iron stone nodules	4	8	1520	2
	Coal	4	5 3/4	1524	7 3/4
	Rankings		1"	1524	8 3/4
	Coal		1/4	1524	9
	Rankings		1/4	1524	1
	Carbonaceous shale; calcareous		2	1524	3
	Medium grey mudstone with sporadic roots	2	9	1527	
	Blocky medium grey mudstone with occasional plant traces, ironstone nodules	4	10	1531	10
	7" at 1527.7,				
	Pale grey fine grained sandstone	2	0	1533	10
20° at 1530	Striped bed		10	1534	8
	Blocky medium grey mudstone; brown stone 3" at 1538.3; sandstone 1 1/4" at 1541.6	1	7	1546	3
	3" at 1541.8.	1	3	1547	6
	Dark shaly mudstone	2	1	1549	7
	Medium grey mudstone				
	Medium to dark grey mudstone becoming dark and more carbonaceous downwards				
	Iron stone with worm casts 4" at 1549.8				
	Iron stone with worm casts at 1550.2				
	Iron stone with worm casts at 1550.6	1	5	1551	
	Coal		4	1551	4
	Clay		1	1551	5
	Coal	8	7	1554	0
	Clod		5	1554	5
	Coal		6	1554	11
	Rankings		6	1555	6
	Medium grey siltstone with scattered nodules	2	7	1558	
	Passing into medium grey mudstone with occasional coal markings in top part; sandstone 1 1/2" at 1559.0	5	1	1563	1
	Dark grey shaly mudstone	2	5	1565	6
	2" at 1563.10. with scattered plant remains;				
	Medium grey blocky mudstone/scattered nodules; sandstone 2" at 1566.9				

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GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT.	IN.	FT.	IN.
	4" at 1566.11, 25" at 1569.3, 2" 1569.11, with small plant remains Sandstone 3" at 1574.11, 25" at 1579.4. Medium to dark grey shaly mudstone canonelly in part	16	9	1582	3
CANNELLY	passing into medium grey mudstone; ironstone 16in at 1586.0	2	4	1584	7
	Pale grey fine grained sandstone	2	9	1587	4
20° at 1590	Blocky medium grey silty mudstone passing medium grey mudstone.	1	7	1588	11
	Sandstone 2" 1590.8	9		1589	8
	Highly sheared medium grained mud- stone	2	1	1591	9
	Coal	1	6	1592	3
	shale	6	6	1598	9
	Coal	1	1	1599	10
	Coal	2		1600	0
	Coal and lower washings	7		1600	7
	Inferior coal	10		1601	5
	Coal	8		1602	1
	highly sheared shaly mudstone ^{-seatearth} medium to dark grey ^{-seatearth} shaly and carbonaceous in parts	1	10	1603	11
	Medium grey mudstone; transition 2" at 1606.2; transition 7" at 1606.5; rather broken and sheared from 1609 to 1610.	2	1	1606	0
	Pale grey fine grained sandstone	7	9	1613	9
	Sandstone 5"	5		1614	2
	Medium grey mudstone occasional new plant; somewhat sheared from 1620-1622	5		1614	7
18° at 1620	Medium grey mudstone with faint striations; abundant plant debris. Sandstone 2" at 1622.10	17	3	1625	10
	Pale grey fine grained sandstone Medium grey mudstone slight shearing from.				
	Medium Pale grey fine grained sandstone	4		1626	2
	Blocky medium grey mudstone with sporadic faint striations & occasional plant remains.	5	10	1630	0
	Medium to dark grey mudstone with plant debris; rather sheared	9		1630	9
	Coal	4	0	1636	9
	Medium grey mudstone - ^{-seatearth} shale COAL	1	4	1638	1
	Medium grey ^{-seatearth} mudstone	8		1638	9
	Strong medium grey mudstone with root markings; scattered Brandon nodules	2		1639	11
		4	3	1643	2

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GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		Ft	in.	Ft	in.
	pale grey fine grained sandstone	1	1	1644	3
	medium grey silty mudstone	1	5	1645	8
	blocky medium grey mudstone transition				
	5" at 1649.9, limestone 2" at 1653.6				
	1 1/2" at 1655.9, 3" at 1661'6"				
	Becoming slightly darker towards the base.	19	7	1665	3
	Dark carbonaceous shaly shaly mudstone		9	1666	0
	Coal	4	0	1670	0
	medium grey mudstone				
	seatearth	6	0	1676	0
	passing into strong medium grey mudstone with roots	5	0	1681	0
	medium grey mudstone with plant traces				
	Iron stone 4" at 1685'2"				
	10" at 1685'11", 9" at 1689'9"	9	0	1690	0
	Highly shelled soft grey mudstone (Fault plane)	1	5	1691	5
	Medium grey silty mudstone with faint striping	3	1	1694	6
	Mixed medium grained silty grey mudstone and pale grey silty sandstone (Fault)	1	0	1695	6
	medium grey mudstone; slightly shelled in places. Shells like non-marine				
	muscles from 1698'9" to base.	4	9	1700	3
	Blocky medium grey silty mudstone with shingle	1	1	1701	4"
	Highly contrasted & shelled medium grey mudstone	1	0	1702	4
	Coal	0	3	1702	7
	Highly shelled structural nodules	1	9	1704	4
	Blocky medium grey silty mudstone with some plant traces & occasional roots	2	5	1706	9
	Highly shelled medium grey mudstone		3	1710	0
	Blocky medium grey mudstone with occasional plant traces. Iron stone 1" at 1711'2"				
	2" at 1711'6", 1 1/2" at 1712'9"				
	1 1/2" at 1713'3", 1" at 1714'2"	5	6	1715	6"
	Dark grey shaly mudstone				
	1716'2" bedded firmly out		8"	1716	2

Fault

7' at 1714'

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GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		Ft	in.	Ft	in.
	Buff grey granitic like sealcoth	1	2	1716	2
	Medium grey mudstone - sealcoth with iron stone nodules.	2	0	1717	4
	Medium grey mudstone with roots. I. stone 2" @ 1721'3"	2	11	1719	4
	Pale grey fine grained sand stone with carbonaceous partings	1	6	1722	3
	Blocky medium grey mudstone with occasional nodules. with and a few plant traces. I. stone 2" @ 1732'3", 3" @ 1734'3", 5" @ 1736'9"	2	1	1723	9
	Brown stone	2	4	1744	10
	Medium grey rather silty mudstone with plant traces	0	3	1747	2
	Strong striped medium grey silty mudstone	0	10	1747	5
	Pale grey sand stone	0	4	1748	3
	Blocky medium grey slightly silty mudstone with sporadic pore zone stripes	0	4	1748	7"
	Irregularly pore zone stripes	3	5	1752	0
	Pale grey fine grained sandstone	0	10	1752	10
	Massive medium grey silty mudstone with poorly developed stripes	2	7	1752	10
	Strong medium grey rather silty mudstone	2	1	1755	5
	Pale grey fine grained sand stone with coal streaks	2	1	1757	6
	Strong medium grey mud- stone with plant traces	1	3	1758	9
	Medium grey shaly mudstone. I. stone 2 1/2" @ 1762'2", 1/4" @ 1763'10"	1	11	1760	8
	Coal	3	8	1764	4
	Light brown grey mudstone sealcoth with occasional ironstone nodules	3	9	1768	1
	Massive medium grey slightly silty mudstone with occasional plant traces	5	7	1773	8
	Sporadic roots in top 2 ft	5	8	1779	4

dip
8° @ 1741'

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GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	Striped beds	0	8	1774	4
	Strong medium grey silty mudstone with platy. carbon.	2	10	1782	10
	Highly sheared mudstone	0	5	1783	3
	Coal	0	3	1783	6
	Carbonaceous shale with plant remains, Rotten				
	sheared.	0	10	1784	4
	Coal	0	23	1784	62
	Siltstone	0	33	1784	10
	Carbonaceous shale	0	5	1785	3
	Coal	0	11	1786	2
	Black Rhyolite	1	2	1787	4
	Siltstone	0	10	1788	2
	Coal	0	23	1788	42
	Dark carbonaceous shelly siltstone with coal streaks.	4	13	1792	6
	Strong medium grey silty mudstone with good medium grey mudstone with occasional, roots & plant traces	2	0	1794	6
	Medium grey shelly mud- stone with occasional plant traces. Thin thin	3	4	1797	10
	1/2" 1795'4", 1/4" 1799				
	1/2" 1799'6", 2" 1799'8"				
	1" 1803, 4" 1806'8"	10	2	1808	0
	Blocky, medium grey mud- stone with rather silty in part with occasional faint striae. Siltstone 5" to 1811'	7	10	1815	10
	Medium grey blocky mudstone rather sheared from 1816'1"				
	to 1817'4"				
	sheared from 1828' to 1836'16"	16	8	1832	6
	Completely crushed medium grey mudstone (partly plane)	0	9	1833	3
	Medium grey blocky mud- stone rather silty in part				
	Siltstone 3" 1835'19"	3	9	1837	0
	Passing into strong medium grey silty mudstone	4	0	1841	0
	Dark grey striped siltstone	2	2	1843	2
	Strong medium to fine grey silty mudstone with				
	Striped bedding	1	0	1844	2

dip
7° @ 1817

34° @ 1843



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GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		Ft	in.	Ft	in.
				1844	2
	Pale grey fine grained sandstone with striped flatter bedding.	1	8	1845	10
	Strong medium grey mudstone rather silty in parts with scattered plant debris some what sheared from				
	1850'6" to 1853'6"	9	3	1853	8
	Dark carbonaceous mudstone with plant debris			1855	3
	Coal	1	3	1856	6
	Blocky medium grey mudstone seatruth	3	6	1860	0
	Strong medium grey rather silty mudstone with abundant roots and scattered iron stone nodules	5	0	1865	0
	passing into medium grey mudstone with sporadic roots. Iron stone 182" at 1866'9", 3" @ 1867'1", 2" @ 1869'6", 14" @ 1869'10",	7	0	1872	0
	Medium grey mudstone with sporadic plants. Ironstone 2" @ 1874'. Rather sheared from 1873'6" to 1879'	7	0	1879	0
	Highly sheared medium grey mudstone passing into soft mixture of fine clay with some				
	Coal	2	9	1881	9
	Strong medium grey mudstone seatruth	4	3	1886	0
	passing into strong medium grey mudstone with roots	3	3	1889	3
	Strong medium grey mudstone silty in parts with sporadic faint striping, scattered plant debris. Ironstone 2" @ 1890'7", 4" @ 1889'4", 1" @ 1900'4", 12" @ 1903'				
	3" @ 1915'3"	42	3	1931	6
	Pale Grey fine grained sandstone	-	8	1932	2
	Strong medium grey silty mudstone slightly sheared with abundant plant debris	2	3	1935	5
	Pale Grey fine grained sandstone	-	7	1936	-

12" @ 1899

14" @ 1920



Name of Shaft or Bore given by Geological Survey:

Morgan hor.

20/6/56

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GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		FT	IN.	FT	IN.
	Blocky med. grey mudstone with a little pale striping, & scattered plant debris.				
	Ironstone 5" at 1936-11				
	Rather silty in parts	10	-	1946	
	Passing into strong med grey silty mudstone with scattered plant debris.	7	2	1953	2
	Striped beds with irregular bedding		9	1953	11
	Med grey silty mudstone with scattered plant debris	1	8	1955	9
	Striped Sandstone - Pale grey fine grained with false bedding and pellets of ironstone.	-	9	1956	4
	Striped beds with irregular bedding		3	1959	7
	Medium grey fine grained Sandstone	1	5	1959	
	Striped beds		11	1959	11
	Pale grey fine grained Sandstone	2	4	1962	3
	Striped beds		3	1962	6
	Pale Grey Sandstone		1	1962	7
	Medium to dark grey silty mudstone		2	1962	9
	Pale grey fine grained sandstone		4	1963	1
	Medium to dark grey silty mudstone with bedding planes sheared	-	6	1963	7
	Coal (8-10" not 18" recovered)	1 1/2	1	1974	78
	Medium to dark grey mudstone				
	Leat earth	3	10	1978	6
	Coal		8	1979	2
	Buff grey mudstone leat earth becoming grey downwards	1	6	1980	8
	Medium grey blocky mudstone with roots	2	8	1983	4
	Medium grey fine grained Sandstone		4	1983	8
	Medium slightly silty mudstone with striping	2	7	1986	3
	Massive medium grey fine grained Sandstone	3	10	1990	1
	Medium grey blocky mudstone	-	9	1990	10
	Massive medium grey fine grained sandstone	1	2	1992	-
	Medium grey slightly silty mudstone faintly striped with scattered plant debris	1	10	1993	10
	Pale grey fine grained sandstone		3	1994	1
	Medium grey mudstone		7	1994	8
	Striped beds		7	1995	3
	Medium grey silty mudstone with pale striping & scattered plant debris				



(2781) *Dd0586/Wt64575 5,000 4/55 JC&S Gp669

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

Margam bore

30/6/56

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County
SS88/10
6" Quarter Sheet.

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
				f	m
179@2000 15 October 1957	gstone 2" 1998/4 - 3" @ 1999/7	5	1	2000	✓
	COAL	2	8	2003	-
	Medium to dark grey Mistle Seated on the burning floor downwards	2	4	2005	✓
2007	Pale Grey Silt. Mistle with roots	1	8	2007	0
16@2023' 18 2023' 5"	Striped Beds with occ. bands of poorly striped Mistle IS @ 10' @ 2009'	18	-	2025	0
	Med Grey micaceous slightly silty mudstone with faint striping	18	-	2043	-
200@2030	Quartzite thin bedded Med grey micaceous mudstone with sporadic striping IS 1" @ 2040' 5"	1	3	2041	✓
	Striped Beds IS 3" at 2045' 11"				
	Pale Sandstone with small brown 2044' 0"	1	6	2044	0
	Pale Grey fine grained Sandstone	2	-	2063	0
	Pale Grey striped Siltstone much crushed	-	8	2064	✓
	Pale Grey fine grained Sandstone well bedded	-	10	2065	2
	Much crushed Pale grey silty mudstone (Russettian)	3	10	2069	-
	Medium Grey blocky mudstone badly sheared Blocky medium grey mudstone with sporadic plants with sheared from 2099' 5" 2106'	1	6	2070	6
	IS 5" at 2109' 6"				
26@2113	Siltstone Band H at 2116' 3" to 2116' 9"	4	8	2119	✓
	Medium Grey smooth Mistle				
	IS 2 1/2" at 2110' - IS 1" @ 2121'				
	IS 1 1/2" @ 2125'	7	2	2126	6
	Blocky laminated Shale Mudstone	2	0	2134	6
	COAL - Recovered 1-11"	8	0	2136	6
	Clay 7" Recovered				
	Coal 4-11" Recovered				
	Soft black mudstone	6	2	2137	✓

(2781) *Dd0586/Wt84575 5,000 4/55 JC&S Gp689

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

Margam bore

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County

SS88/10

6" Quarter Sheet

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS			DEPTH	
	Blocky medium to dark grey mudstone seatracks				2136	6
	Passing into Blocky medium grey mudstone with roots rather sheared from	1	3		2137	9
	2138-6" to 2140-0"	2	3		2140	-
	Medium slightly buff grey mudstone seats with little scattered I Stone					
	nodules	1	9		2141	9
	Blocky medium grey mudstone with roots, roots, dipping	4	3		2146	-
	not downwards					
	Passing into striped beds with blue-grey siltstone				2149	9
	Blocky medium grey mudstone	3	9		2150	9
	Blocky medium grey slightly silty mudstone	2	9		2152	6
	Blocky fine grained sandstone	-	1		2154	1
	Striped beds	1	4		2157	5
	Medium grey fine grained sandstone with striped bands	2	3		2158	8
	Blocky medium grey mudstone with faint stratification	3	4		2162	0
	I.S. 3" @ 2159 1/2"	1	1		2163	1
	Striped beds					
	Blocky medium grey mudstone with spherulitic faint striping	4	10		2167	11
	I.S. 3" @ 2167' 6"	3	7		2171	6
	COAL					
	Blocky medium grey mudstone seatracks	3	2		2174	9
	Blocky medium to fine grey sandstone like seatracks	1	3		2176	0
	Passing into massive medium grey slightly silty mudstone with little plant debris	1	0		2177	
	Massive blue to medium grey silty mudstone	3	8		2180	8
	Striped beds, medium grey mudstone mediating	12	11		2192	7
	Massive medium grey rather silty mudstone with scattered plant debris					
	I.S. 5" @ 2195-2" I.S. 6"	1	5		2203	-
	Striped bed medium grey mudstone mediating					

(2781) *Dd0586/Wt64575 5,000 4/55 JC&S Gp669

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

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6" Quarter Sheet

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH	
	Continued			2213	—
240 at 2229	IS 1" at 2232.6				
	IS 2" at 2241.6				
	IS 1 1/2" at 2248.0				
	IS 1" at 2248.3				
240 at 2237	IS 1" at 2249.1				
190 at 2247	IS 1" at 2251.6	3	9	2252	—
	Striped beds medium grey mudstone with sub-parallel bedding	11	6	2263	6
120 at 2256	Massive to grey fine grained sandstone	3	9	2267	3
	Blocky massive medium grey slightly silty mudstone	2	5	2269	8
	Massive yellowish fine grained sandstone with a few thin layers of silty mudstone	1	3	2271	11
	Blocky massive medium grey mudstone with occasional bands showing striped bedding	4	8	2276	7
	Massive pale grey fine grained with distinct pellets of mudstone	2	1	2278	8
	Medium grey slightly silty mudstone	—	2	2278	10
	Dark blue grey shaly mudstone somewhat sheared	6	7	2279	5
	Cobble (3 Gallies)	6	10	2286	3
	Blocky medium grey (massive) mudstone sea earth	1	9	2287	0
120 at 2290	Passing into medium grey silty mudstone with beds	4	—	2291	0
	Passing into Blocky medium grey mudstone with roots	2	3	2293	6
	Mudstone 1 1/2" at 2295	2	6	2298	6
	Passing into medium grey shaly mudstone with poor plant remains	1	6	2298	0
	Blocky med. grey mudstone with plant remains	1	1	2296	1
	Mudstone	—	4	2296	3
	Striped beds pale grey siltstone predominating				
	Mudstone 1 1/2" at 2299.6				
	Striped beds - mudstone	5	1	2301	6
	beds predominating medium grey mudstone	3	—	2301	—
	IS 1 1/2" at 2304.2				

2781) *Dd0586/Wt64575 5.000 4/55 IC&S Gp669

and Number of Shaft or Bore given by Geological Survey:

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6" Quarter Sheet

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS			DEPTH	
	(continued) with shell fragments I.S. 1" at 2306'-1"	4	9	2306	3	
	Blocky medium grey silty mudstone sheared from 2306-3" to 2307-10"					
	mudstone 1" at 2308-2"					
	more shagging at 2308-7"	2	6	2308	9	
	Hard slightly silty mudstone scattered slightly sheared	2	9	2311	6	
	passing into medium grey mudstone with root and plant traces.	1	10	2313	4	
	Blocky medium grey silty mudstone with occ. roots & plant traces with occ.	3	11	2317	3	
	pale grey bands of siltstone massive pale grey fine grained sandstone	9	9	2327	0	
	Medium grey blocky mudstone with layer of striped silty mudstone.					
	I.S. planolites at 2328-6" to 2330-1" I.S. 1" at 2331	4	9	2331	9	
	Pale grey fine grained granitic like sandstone. Med grey slightly silty massive mudstone	2	0	2333	9	
	Striped Beds I.S. 1" at 2334-10"	1	0	2334	9	
	showing turbulent bedding 2336-6' to 2338-10" and to 2340					
	Layers of pale grey fine grained sandstone 2339-6" to 2339-9" & 2340-1" to 2340-5"	6	4	2341	1	
	Blocky medium grey slightly silty mudstone	1	6	2342	7	
	Pale grey fine grained Sand- stone	2	6	2345	1	
	Medium grey slightly silty mudstone with faint striping I.S. 3" at 2345-1"					
	Pale grey siltstone at 2346-1" to 2346-5" I.S. 2 1/2" at 2347-8"					
	I.S. 4" at 2349-3" I.S. 2" at 2352"					
	I.S. 1/2" at 2353-10" somewhat sheared in bottom 12"	11	5	2356	6	
	Rashings (found rollers by)	-	1	2356	7	
	COAL (" " ")	1	-	2357	7	

'2781) *Dd0586/W164575 5,000 4/55 JC&S Gp669

and Number of Shaft or Bore given by Geological Survey:

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County

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GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS			DEPTH		
G.N.B. about 4'65' (one missing) 27°-2366	Rashings 11.9 (from drillers log)	1	9	2357	7		
	Blocky, medium grey mudstone			2350	4		
	seatearth.	7	4	2365	0		
	passing into strong med. med. grey slightly silty mudstone						
27°-2366	passing into striped beds, pale grey siltstone tending to beddom at top. Apparent dip varying from about 20° at top to nearly vertical at 2390' to about 20° at 2391'. Rools at top.	31	0	2392	0		
	Passing into striped beds medium grey mudstone tending to beddom at top.	8	8	2400	8		
	Passing into striped beds pale grey siltstone predominating	7	10	2408	6		
	striped beds	4	6	2413	-		
27°-2392	Passing into striped beds medium grey mudstone predominating	23	0	2436	-		
	Passing into striped medium grey slightly silty mudstone with faint striping	3	1	2434	1		
	Passing into striped beds	1	4	2438			
	Passing into striped beds pale grey siltstone predominating	2	2	2443	2		
27°-2410	I. Stone	1	0	2444	2		
	Med. Grey slightly silty mudstone with faint striping	1	11	2446	1		
	Passing into striped beds	1	11	2448	0		
	passing into medium grey silty mudstone with sporadic striping. Apparent dip 24° at 2451. Deepening to vertical with concretion at about 2455 (? Slumping) with apparent dip 50° at 2456.	12	5	2460	5		
27°-2451	Passing into striped beds pale grey mudstone predominant but with bands of top						
	thick with pale grey siltstone predominant	12	1	2472	6		
	passing into striped beds showing slumped structures. ? fault at base	10	10	2483	4		
	Medium grey mudstone with poorly developed striping.						
27°-2483							

(2781) *D0586/W164575 5,000 4/55 JC&S Gp669

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

Margam Hall

County

6" Quarter Sheet

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GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS			DEPTH	
	Up 53° at 2484' : 73° at 2485' 6"				2483	4
	Vertical at 2487' 6"	4	6		2489	0
12° at 2491'	Blocky medium grey mudstone with occasional plant bases					
2m thick 1" at 2489' 6"	Shear Planes at 2489' & 2490'					
	with curved bedding nears	4	0		2492	0
	Vertical between					
	Dark carbonaceous mudstone with plant debris	-	2		2492	2
	Coal	3	2		2495	4
	medium slightly buff grey blocky sandstone	2	0		2498	0
	Passing into med. grey slightly silty mudstone with roots & clay nodules in the top 18"	1	10		2499	10
	passing into strong pale to med. grey silty mudstone (nearly all stone) I.S. 6" at 2504' 3"	7	2		2507	0
	med grey mudstone with plant remains	1	4		2508	4
	Strong medium grey silty mudstone with plant debris					
	Spotted beds. Striping not well developed. Beds mainly silty mudstone	15	8		2514	-
	Massive pale grey siltstone with striped partings	3	10		2517	10
	Medium grey silty mudstone with poorly developed striping in patches	4	0		2521	-
18° - 2521'	Striped beds	5	9		2526	7
	Pale grey silty sandstone with striped partings	-	7		2527	7
	Strong medium grey silty mudstone with faint striping	1	0		2528	2
	END	2			2530	2



FORM P 70
SERIES 680

CONFIDENTIAL

Section of **MARGAM BOREHOLE No. 13.**

Purpose **Shaft Investigation**

Exact Site **NGR E 284149.108**
N 185053.316

Level at which ~~shaft~~ bore commenced relative to O.D. **Kelly Base Level 10278.14**
~~core~~ (Ground level **-10268.3**)

Date of sinking or boring **May - August 1978.**

Sinker or borer **Foraky (Thyssens -site engineers)**

8-INCH MAP	B/H REGD. No.
SS 88 NW (County, Sheet and Qtr.)	23
1" 248 (Nat. Grid, Sheet & Qtr.)	
Attach tracing from a map or sketch map if possible	

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Open hole to 9.92m., coal returns reported.			9	92
	Recovery to 35.15 metres poor; casing set at 30.09m.				
	<u>Run 1</u>				
	Core lost 2.53m. 9.92m. to 12.85m.				
	Rolled fragments of silty mudstone, grey rootlets ferruginous		10		
	Fragments of sandstone fine grained, light grey, sub vertical jointing.		30	12	85
	<u>Run 2</u>				
	Core lost 3.00. 12.85 to 16.85 including 40 cms. fast drilling @ 16.35. (no coal on electric logs).				
	Sandstone fragments		40		
	Mudstone silty fragments		30		
	Sandstone broken core		30	16	85
	<u>Run 3</u>				
	Core lost. 21 cms. 16.85 to 17.47. Sandstone, light grey laminations; two subvertical joints at right angles.			17	47
	<u>Run 4</u>				
	Core lost 1.65, 17.47 to 19.27.				
	Mudstone/sandstone fragments recorded.		15	19	27
	<u>Run 5</u>				
	Core lost. 2.90, 19.27 to 23.05				
	Mudstone, silty grey with faint sandstone laminations. Vertical and 60° joint at right angles - broken core fragments		75 13	23	05
	<u>Run 6</u>				
	Core lost .56. 23.05 to 23.86. Mudstone, silty. 2 sets of jointing vertical and 60°				

Dip 17°

7PU.917

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Section of

23

*Delete as appropriate

80

FORM P 71
SERIES 680

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8-INCH MAP	B/H
SS88NW	23

Section of MARGAM BOREHOLE No. 13.

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
End of run 41.07	"Striped" beds, rapidly alternating light grey sandstone and silty mudstone, ripple bedding.			41	45
Dip 22° @ 41.50	Mudstone, silty grey, occasional sandstone laminations, ocre fragments from 41.77 to 42.00.			41	90
	COAL ocre lost		60	42	50
End of run 42.82	LOST CORE. 95cms. from to			42	00
				43	12
	Seatearth - mudstone, silty grey brown roots and stigmata. Occasional listric surface				
				43	60
	Sandstone, fine grained grey massive scattered roots.			43	90
Dip 19° @ 44.20	Mudstone, silty/slightly silty grey/dark grey scattered roots. 10cms. core fragments @ 44.33 70° joint @ 44.80 to base. with irregular vertical fractures.			45	30
	Sandstone fine grained, light grey, silty laminations throughout.			45	58
	Mudstone, very silty, grey, occasional sandstone laminations, numerous ironstone nodules, occasional root.			45	72
Sample 2. A 45.72 to 46.24	Sandstone, fine to medium grained, light grey, occasional carbonaceous wisps to 46.60, massive below, jointing 47.40 to 48.30.				
B 46.24 to 46.78					
End of run 47.46.					
Sedimentary Dip 20° @ 49.00	Numerous laminations 48.80 to 49.00. Muddy bands from 49.85.				
	Carbonaceous wisps from 50.40. massive from 51.00 to 51.45. 10cms. mudstone band @ 51.55				
Dip 22° @ 51.50	Bands of darker sandstone to 52.33. Massive light grey, fine/medium grained sandstone below, carbonaceous laminations from 52.70, muddy bands from 53.10.				
Sample 3 49.43 to 49.75.					
	10cms. siltstone, micaceous, packed with plant debris at 53.50. Slumped bedding at 53.65.			53	85
	Siltstone, grey, scattered plant debris, occasional sandstone laminations.			54	00
Dip 17 at 54.30	Mudstone, silty, grey, sandstone laminations in top, some partings packed with plant debris.			54	60

YPU.918



FORM P #1
SERIES 680

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6-INCH MAP	B/H
SS88NW	23

Section of

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				54	60
End of run 54.72	Siltstone, grey, massive with scattered plant debris, sandy patches, sub-vertical filled joint @ 56.30.				
Sample 4					
A 54.72 to 55.21	20 cms. sandstone at 56.20.			57	00
B 55.21 to 55.71	Mudstone, very silty, grey, scattered plant debris, bedding poorly developed. Sandstone laminations from 57.30 to 58.20. Several sub-vertical filled joints from 57.00 to 59.00. Occasional thin ironstone bands.				
Dip 19° @ 61.50					
Sample 5	Silty from 63.00 becoming well-bedded with occasional polished bedding planes. Planolites s.p. at 64.50.				
A: 63.06 to 63.53					
B: 63.53 to 63.92					
End of run 64.34					
Dip 15° @ 64.70.	Sub-vertical joint at 65.30.				
	P. Bphtalmoides at 67.00.				
Sample 6					
A: 66.28 to 66.71	polished surfaces at 67.30 and 67.42.				
B: 67.01 to 67.30					
	Coalified plant debris at 67.50, bedding plane shear @ 67.63, Darker grey from 68.00.				
Horizon of Foraminifera Marine Band	Pyritised worm trails at 68.30 numerous Planolites s.p. below becoming slightly silty/dark grey from 69.00. Blebs.				
	Sheared with rashes in basal 3cms.			69	31
PENTRE RIDER	COAL 65 cms. stick. 7 cms. fragments. [See images]	90	70	21	
	Seatearth, mudstone, silty, grey. Ironstone nodules, roots, faint sandstone laminations. Sub-vertical pyritised joint to 70.70.			70	90
	Sandstone, light grey medium grained silty laminations and ironstone lenses. lode structures in base.			71	15
Dip 15° @ 71.60	Mudstone, silty, grey, scattered roots to 73.30. Stigmara. Ironstone nodules, sandstone laminations to 72.40, polished partings at 72.82. Numerous ironstone band in base.			73	54
Sample 7					
A: 72.44 to 72.82					
B: 72.82 to 73.19					
End of run 73.32	Gouge with mudstone fragments.	10	73	64	
Dip 22° @ 73.40					
	Mudstone, silty, dark grey, micaceous. Coalified plant debris in base.			73	83
Dip 21° @ 73.70					
	Seatearth, mudstone, grey/brown, dark grey patches, numerous listric surfaces.				

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Form P 71
Series 680

Section of MARGAM BOREHOLE No. 13.

8-INCH MAP	B/H
SS 88 NW	23

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Sample 8 A: 74.60 - 75.07 B: 75.20 - 75.58 Dip 22° @ 76.20 Dip 17° at 76.68	Sheared/broken at 74.30			73	83
	patches of sphaerosiderite			74	60
	Mudstone, very silty, dark grey, scattered roots, poorly bedded, sphaerosiderite throughout.				
	Sub-vertical jointing in top. Silty from 75.50, occasional polished surfaces.			76	40
	Mudstone, slightly silty, dark grey, packed with plant debris (some coalified) and Ironstone bands.				
	Sub-vertical joint with pyrite at 76.30.				
	Coal streaks in basal 8 cms.			76	68
	COAL 5 cms. core.				
	5 cms. fragments.				
	5 cms. core. [on timing.]	20	76	88	
Sample 9 79.39 to 79.58	Seatearth, mudstone, brown with roots packed with polished surfaces, friable with occasional steep shear plane.			77	80
	Mudstone, grey/dark grey, packed with plant debris, friable, sheared and broken 77.80 to 78.20.				
	1 cms. coal band at 78.24				
	2 cms. coal band at 78.28				
	Contorted, polished bedding below;			78	45
	Rashes, dark grey with coaly streaks, contorted/friable.			78	90
	Rashes, dark grey, including fragments of coal.			79	10
	Seatearth, mudstone, silty, grey, roots, polished surfaces throughout.				
	23cms. vertical ironstone band from 80.00.				
	Slickensiding at 80.80.				
End of run 82.83	Occasional ironstone lenses, rashy in places.			81	77
	1.00m. core lost.			82	77
	Mudstone, silty, grey, vague seatearth texture, packed with plant debris, scattered roots, very silty in base.			83	26
	Sandstone, fine to medium grained, light grey, quartzitic, rooty in top, silty laminations to 83.75, carbonaceous wisps below.			85	85

YPU.918

FORM P 71
SERIES 680

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6-INCH MAP	B/H
SS88NW	23

Section of

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YPU.918

FORM P 71
SERIES 680

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Section of MARGAM BOREHOLE No. 13.

8-INCH MAP	B/N
SS 88 NW	23

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				96	90
Dip 27° at 97.20.	Sandstone band 98.60 to 98.75			98	75
Dip 20° at 98.80	Siltstone, grey, micaceous with sandstone laminations and bands.				
Dip 16° at 99.10	"Striped" in planes to 100.00.			102	00
	Mudstone, silty/slightly silty, grey/dark grey, scattered plant debris, irregular polished surfaces, rashes				
Sample A: 101.00 to 101.30	at 102.20.			102	50
B: 101.34 to 102.00	Core lost 59 cms. to			103	09
	Plant debris (annularia)				
Dip 13° @ 102.30	Core fragments in base, 2 cms. gouge to			103	29
Lower Penne	COAL 49 stick		49		
	dirt (Tonstein) 4 stick		4		
	COAL 10 fragments		10	103	92
	Seatearth, mudstone, silty, grey, roots, polished surfaces to 103.50. Ironstone masses.			104	60
	Mudstone, silty, grey, roots.			105	15
Dip 11° @ 104.80	Sandstone, light grey, silty laminations, carbonaceous debris			105	40
	Mudstone, silty, grey, sandstone laminations in top, rashes at 106.01, and at 106.55, disturbed/broken ground below in solid core.			106	90
Dip 14° @ 106.20	Mudstone, very silty/silty, grey, poorly bedded, sheared and rashes at 107.62, and at 108.20; sheared at 108.90, 109.00, 109.88.				
Dip 16° @ 109.20	Sheared with rashes 110.05 to 110.10 becoming slightly silty with G. carbonaria, sheared/raschy 110.35 - 110.50.			110	64
	COAL 34cms. fragments.		60	111	24
	core lost 112cms. to			112	10
	Clay with mudstone fragments. Broken fragments of silty seatearth.			112	40
	Siltstone, grey, roots, faint sandstone laminations.			112	70
	Sandstone, light grey, fine/medium grained.			112	90
	Mudstone, silty, grey/dark grey.				
	Thick ironstone band in base			113	23

YPU.918

FORM P-71
SERIES 680

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6-INCH MAP	B/H
SS 88 NW	23

Section of

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 4° @ 113.10	Sandstone, light grey, medium grained, massive to 113.45, carbonaceous and silty wisps below.			113	88
Dip 13° @ 114.20	Mudstone, very silty, grey, scattered plant debris. Irregular polished surfaces throughout, some slickensiding.			114	50
	Sheared from 114.50 with rashes.				
	core fragments only.			114	77
	<u>COAL</u> 13 cms. fragments (some dirt fragments). 17 cms. stick.	50		115	27
Sample 14 116.46 to 116.10	Seatearth, mudstone, very silty roots, some steep polished slickensided surfaces.			115	45
	Sandstone, light grey, fine/medium grained carbonaceous laminations in base.			116	30
Dip 11° @ 116.70	Mudstone, very silty, rooty, numerous sandstone laminations from 116.80.			117	35
	Sandstone, light grey, fine grained laminations.			117	80
Dip 10° @ 117.90	Mudstone, very silty, grey, sandstone laminations, comminuted plant debris.			119	35
	Siltstone, medium grey, fine grained sandstone lenses, sedimentary structures throughout.			120	60
	Mudstone, silty, grey, scattered plant debris, occasional sandstone laminations. Sub-vertical infilled joint 123.35 to 124.00.				
Sample 124.04 to 124.51 Dip 10° @ 124.50	Sheared/rashes, some slickensiding core fragments 126.55 to 127.05			128	20
	Structural rashes, grey/brown			128	40
Dip 10° @ 127.90	Seatearth, mudstone, grey/brown, roots sheared throughout, mainly rashes from 128.50 with ironstone lenses. Coal fragments in base.			129	83
	Core lost 30 cms.			130	03
	<u>COAL</u> 90cms. stick.	1	00	131	03
GORILLWYN [disturbed]	Steep shear planes throughout				
	Seatearth, mudstone, silty grey with roots, broken throughout.	35		131	38
	<u>COAL</u> 90 cms. sheared/broken	1	00	132	38

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8-INCH MAP	B/H
SS 88 NW	23

Section of **MARGAM BOREHOLE** No. 13

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 19° at 133.80 Sample 16 135.43 to 135.75 Dip 25° @ 139.50	Seatearth, mudstone, silty grey, roots fairly firm, sheared at 132.90, thick ironstone @ 133.40			133	70
	Mudstone, very silty, grey, scattered roots, poorly bedded. Carbonaceous streaks from 134.20.				
	Steep and sub-vertical polished surfaces at 134.60.				
	Numerous polished surfaces from 137.50 to 138.90, becoming darker grey, packed with leaf impressions from 139.15 to			139	12
	Core lost 22cms.				
	Coal streaks at 139.15				
	Sandy wisps in base.			139	80
	Mudstone, rashy, disturbed, sheared.			139	85
	Seatearth, mudstone, grey/brown, large ironstone masses.			140	30
	Mudstone, silty/very silty, grey, rooty, sandstone wisps, numerous sandstone laminations from 142.70 with occasional band. Fracture at 143.20.			143	30
Dip 24° @ 141.00	Alternating bands of sandstone/silty mudstone, some low angle fractures.			144	12
Dip 19 @ 143.00	Sandstone, light grey, fine/medium grained, quartzitic, wispy bedded, occasional fracture; erosive base @ 146.13 onto greyer medium grained sandstone with carbonaceous laminations; pyrite infilled fracture at 146.40			147	10
Sample 145.86 to 146.40	Siltstone, grey, light grey, sandstone laminations.			147	35
Dip 20° @ 147.12	Sandstone, light grey, medium grained, carbonaceous laminations, broken core from 147.85 in fractured sandstone to 149.24.				
End of run 148.57	4 cms. of ironstone nodules at 148.60. Sub-vertical fracture with pyrite patches 149.88 to 150.77.				
	Several fractures in base.			151	65
Dip 33° @ 151.90	Mudstone, very silty, grey, scattered small plant fragments.			152	60
	Sandstone, light grey, very quartzitic, numerous carbonaceous wisps. "striped" sandstone 154.00 to 154.27. Pale white/sugary texture from 154.27. Band of ironstone nodules at 154.50.				

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6-INCH MAP	B/N
SS 88 NW	23

Section of

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 23 @ 155.88	Packed with coaly bands from 154.72 to 155.60, erosive base			155	27
	Mudstone, silty grey, unbroken.			155	88
	Sandstone, very pale grey, medium grained, very quartzitic, carbonaceous laminations, some steep joints, coarser grained from 156.50 with tiny ironstone pellets. Mudstone pellets 156.75 to 156.84. Medium/coarse grained from 157.00, dirty grey colour with carbonaceous flakes, coarse grained 158.00 to 158.36; lighter grey in parts, Broken core/jointing from 159.00 to 159.40 with some slickensiding; ironstone pellets in base.			160	55
Dip 25° @ 160.97	Mudstone, sheared throughout, rashy.			160	97
	Sandstone, dark grey, quartzitic, irregular carbonaceous laminations, faint vertical wisps.			161	09
	Mudstone, silty grey packed with polished surfaces, broken/poorly bedded.			161	49
End of run 161.82	Sandstone, fine/medium grey, light grey, quartzitic, wisps, some fragments 161.49 to 161.82.				
Sample 163.90 to 164.35	Quartz filled vein 162.30 to 162.70, cross bedded, medium grained from 162.90. Steep foreset bedding from 168.70 to 165.30. Lenses of mudstone at 164.95.				
	Sub-vertical fracture 165.90 to 166.23. Core broken with jointing 166.70 to 167.46; massive from 167.90.				
End of run 167.46					
Sample 172.96 to 173.62	Packed with laminations @ 168.30, steep foreset bedding at 168.95 to 169.25. Fine/medium grained with colour banding, carbonaceous specks from 171.10; fractured in base			172	52
	Mudstone, silty grey, large plant debris, polished surfaces, ironstone lenses in base.			172	75
	Sandstone, light grey fine/medium grey quartzitic, packed with coaly streaks/ bands to 174.10. Irregular sub- vertical filled fractures. Pyritic ironstone nodule at 173.90. Clayey partings below to base. Ironstone in base.			174	10

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Section of **MARGAM BOREHOLE No. 13**

6-INCH MAP	B/H
SS 88 NW	23

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Sample 175.66 to 176.13.	Sandstone, medium grained, quartzitic, "dirty" grey colour, massive with specks of carbonaceous debris throughout. Partially pyrite filled vein 175.00 to 175.50.				
	Steep jointing 176.80 to 177.60, staining on joints to base.				
End of run 176.80	Pyritised ironstone nodules in base.			179	45
Dip 16° @ 180.80	Mudstone, silty, dark grey, micaceous. Occasional ironstone and steep polished joint @ 181.50 and 181.70; blotchy colouring grey/dark grey.				
	Ferruginous 185.20 to 185.80.				
Sample 182.09 to 182.61	Mussel at 186.20; becoming slightly silty/grey from 186.20.				
Dip 17° @ 183.80					
End of run 180.11	Shuffled/polished bedding from 186.80 with occasional shear to base of unit.				
Dip 26° @ 188.50	Broken/sheared 187.80 to 188.33, vaguely wormy, sheared and broken @ 189.60. Closely polished/raschy from 189.00.				
	Dip steepens below thick ironstone band at 189.50				
Dip 58° @ 189.95	Raschy mudstone from 189.80 ; fold in core @ 190.60, raschy below to 191.00; irregular vaining from 191.40. Irregular bedding from 192.15.				
Dip 50° @ 191.00	Solid rashes in basal 15cms.				
Cefn Coed Marine Band (Horizon)	Solid contact.			192	55
Dip 5° @ 192.58	Seatearth, mudstone, brown, few roots and pyritic nodules, polished surfaces throughout.				
	Core fragments only from 193.00, some with sphaerosiderite and disseminated pyrite.			193	70
End of run 195.57	Core lost 1.87m. to			195	57
Dip 33° @ 195.90	Mudstone, silty, grey/dark grey, finely micaceous. Finely disseminated pyrite. Fractured ironstone @ 196.50. Fractured core from 198.00 to base of unit, with some slicken- siding. Steep shear at 198.10.				
Dip 26° @ 197.20	Core fragments from 198.35, becoming slightly silty and darker grey.			199	07
Dip 18° @ 198.85	Coal (core lost)	10		199	17
End of run 199.37	Rashes, dark grey with coal streaks to end of run.			199	37
	Seatearth, mudstone, silty grey, packed with roots.			199	50
	Mudstone, very silty, grey, sandstone laminations, roots.			200	25

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6-INCH MAP	B/H
SS88NW	23

Section of

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 22° @ 199.90	Siltstone, grey, scattered roots, poorly bedded, sandy from 200.40; sedimentary structures.			200	25
				201	00
Dip 20° @ 201.40	Mudstone, silty/very silty, grey, scattered roots - highly slumped bedding with sandstone laminations 201.40 to 202.10.			292	10
	Siltstone, grey, scattered roots, sandstone laminations, partings packed with plant debris.			202	90
	Mudstone, silty, grey, comminuted plant debris, sheared and broken @ 203.70 and 203.90.			204	04
Dip 21° @ 203.80	<u>COAL</u> stick, 11cms. with ankerite veining and dirt lenses. Pyrite film in base.	11		204	15
	Seatearth, silty, grey/brown with carbonaceous roots and plant debris, sandstone lenses in top, sphaeroiderite patches 204.40 to 205.40.			205	40
Sample 205.80 to 206.30	"Striped" beds interlaminated silty mudstone and sandstone, "blotchy" colouring to mudstone. Occasional thick sandstone band from 205.15				
End of run 208.71	Parting packed with plant debris				
Dip 18° @ 207.10				209	50
Dip 17° @ 209.00	Mudstone, very silty, grey, massive, broken core with sub-vertical joints to 209.90. Steep joint with slickensiding at 210.20.				
Dip 22° @ 213.00	Silty from 213.00 with thin dark muddy bands.				
Dip 24° @ 214.00	Occasional thick ironstone band. Shear @ 216.10. Shear/rashes to 216.50 to 216.80. Shear at 217.30, becoming less silty, vaguely wormy.				
Dip 23° @ 217.60	Slightly silty from 220.00. Planolites s.p. at 220.50 with pyritised tubes, becoming dark grey. Worm trails at 220.85. Shear/rashes @ 220.90. Pyrite lenses in base.			221	23
Britannic Marine Band					
Dip 25° @ 221.00	Channel bands with <u>Lingula</u> in top and pyrites.	10		221	33
	<u>COAL</u> fragments 30 cms. pulverise in base.	30		221	63
	Seatearth, siltstone, roots, light grey, sandy patches and bands.			222	10
Sample 223.48 to 223.97	Mudstone, very silty, grey, scattered roots and sandstone laminations.				
Dip 20° @ 223.50					
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Section of MARGAM BOREHOLE No. 13.

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				222	10
End of run 226.02	Sandstone stripes 225.00 to 225.30 and 226.60 to 226.90; becoming silty. Shear @ 227.70				
Dip 21° @ 227.90	Thick ironstone @ 229.17, becoming darker gray/micaceous, sheared with rashes @ 229.60.				
Sample 230.76 - 231.21	Pyrite blebs @ 231.30 to 232.00. Shear @ 232.10, steep shear @ 232.25, shear @ 233.25, with polished surfaces to 233.40. Fish fragments @ 235.50.				
Dip 19° @ 232.30					
HAFOD HEULOG	Core lost 20cms. to			235	75
MARINE BAND	Mudstone, slightly silty, dark gray, sheared, rashy to 236.33. Lingula @ 236.90			237	15
Dip 24° @ 236.50	COAL 15cms. fragments.		15	237	30
	Seatearth, mudstone, light brown roots and Stigmara, Pyritic joints and listric partings, sandy bands from 237.60. Gray and silty with sphaerosiderite in base.			238	20
Dip 17° @ 238.90	Mudstone, silty, medium/dark gray, sandstone bands, rooty. Ironstone mass 239.30 to 239.70. Steep shear at 240.10.				
Dip 31° @ 240.50	Shear at 240.65; becoming slightly silty. Sheared mudstone @ 241.05.			241	20
Sample 241.20 to 241.63	Sandstone, fine grained, light gray, silty laminations and wisps. Oily (Hatchetite) in fractured ironstone 241.70 to 241.90.			241	90
Dip 19° @ 243.35	Mudstone, silty, gray, occasional roots, sandstone wisps, packed steep polished partings from 242.20, with veining and ironstone bands to 243.10. Sandstone laminations 243.10 to 243.25; polished surface below with ironstone lenses to 244.50. Still rooty.			245	15
End of run 245.01					

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6-INCH MAP	B/H
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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
				245	15
	Interbanded, silty mudstone and sandstone.			245	75
Dip 21° @ 246.50	Mudstone, silty, grey, scattered plant debris, small ironstone nodules.			246	60
Sample	Sandstone, light grey, fine/medium grained, wispy bedded, vertical jointing with pyrite, irregular veining from 248. to 249.25. Cross bedding. Grey and massive in base.			250	00
246.69 to 247.26.					
	Siltstone, grey, scattered plant debris.			251	10
Dip 23° @ 250.15.	Mudstone, silty, grey, sandstone laminations Broken with steep shears 251.85 to 252.85, rashy in parts. Very silty from 252.85. Sub-vertical jointing 253.00 to 254.00.			254.	20
	Siltstone, fairly massive, steep veining with pyrite.			254	50
End of run 254.50	Mudstone, silty, grey. Sheared/broken with steep polished joints 254.55 to 254.75, polished bedding below; faint sandstone wisps from 256.00. Steep fault plane @ 256.76, with 5 cms. of gouge dipping at 50°.				
Dip 15° @ 254.95	Vertical bedding below.				
Dip 19° @ 256.55	Core fragments only 256.81 to 258.30.				
Dip 90° @ 256.80	Thick ironstone band at 258.80.				
Dip 37° @ 258.30	Sheared ground below to 259.20				
Dip 80° @ 259.20 to 259.80.	Sheared/rashy to 262.10; friable. Carbonaceous with polished partings to base.			262	20
Dip 22° @ 262.20	COAL 8 cms. fragments.		8	262	28
	COAL/Ironstone mixture. 9 cm. stick.		9	262	37
	COAL 10 cms. stick.		14	262	51
	4 cms. fragments.				
	Sphaerosiderite. 3 cms.		3	262	54
	COAL 6 cms. (on timings)		11	262	65
	Seatearth, mudstone, silty, roots, grey, listric surfaces. Ironstone nodules, very silty from 263.00. Patches of Sphaerosiderite.			263	50
End of run 263.90					
	Mudstone, silty/very silty, grey, poorly bedded, sphaerosiderite to 253.90, rooty, broken/sheared 263.90 to 264.00				

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Section of MARGAM BOREHOLE No. 13.

6-INCH MAP	B/H
SS 88 NW	23

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 21° @ 264.60	20 cm. veined ironstone.			264	00
				264	20
	Mudstone, slightly silty, dark gray, polished partings to 264.50. Canneloid in base. polished surfaces @ 264.75			264	94
	COAL 4 stick	4			
	dirt 1 stick	1			
	COAL 8 stick	8	265	07	
Dip 12° @ 266.40	Mudstone, silty, medium/dark gray, scattered roots and plant debris; sandstone laminations to 265.20.				
	Coal band at 265.20 and 265.25.				
	Seatearth fracture to 265.70.				
	Steep polished parting at 265.65. Ironstone mass 265.70 to 266.20, rooty, sheared @ 267.05, becoming slightly silty from 267.20. Ironstone @ 267.40, polished surfaces to base.			267	80
	COAL 33 stick				
	dirt 1				
	COAL 10 stick				
	6 fragments.				
	on timings	75	268	55	
	Core lost 25 cms. to		268	55	
Dip 12° @ 269.10	Seatearth, mudstone, silty, gray/brown. Steep shear planes with rashes in top. Carbonaceous roots, pyritic nodules. Shear @ 268.75.			268	85
	Mudstone, slightly silty, gray/brown, scattered roots.			269	14
	COAL 25cms. fragments.	40	269	54	
	Core lost 15 cms.				



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Section of

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Sample 269.92 to 270.36	Seatearth, mudstone, silty, medium/dark grey roots, polished surfaces to 269.80, slightly silty from 270.40, grey/brown, carbonaceous roots; lens of sphaerosiderite at 270.80; sandstone 4 cms. below. Steep irregular polished surfaces 2.70.80 to 271.10.			271	00
	Siltstone, grey, sandstone laminations and bands.			271	55
Dip 20° @ 271.60	Mudstone, silty, medium grey. Sandstone bands/laminations to 273.00; poorly bedded.				
	Occasional thin ironstone band becoming darker grey slightly silty, well bedded. Mussel fragment at 273.50.				
End of run 272.91					
Dip 16° @ 272.95	Coal band 273.60/273.65.				
	Large coalified plant debris below. Silty from 275.00.			275	22
	Siltstone, grey, scattered plant debris, massive, sandstone laminations.			275	85
	Sandstone, light grey, fine/medium grained quartzitic, wispy bedded. Ironstone lenses.			276	80
Dip 15° @ 276.90	Mudstone, very silty, grey, poorly bedded, scattered plant debris, sandstone wisps, comminuted plant debris.				
	Siltstone band, massive, 277.60 to 278.20.			278	50
	Sandstone, light grey, fine grained laminations, ironstone top, mudstone band 278.75 to 278.90. Striped in base.			279	50
	Mudstone, very silty, grey, fairly strong mudstone laminations to 280.80, thick ironstone at 281.50, and in base.			282	00
Sample 279.92 to 280.86					
End of run 281.18	Siltstone, grey, massive, slumped bedding throughout.			282	40
Dip 14° @ 281.75	Mudstone, silty, grey, scattered plant debris, ironstone bands, vaguely wormy from 284.80. Carbonaceous partings several sub-vertical joints from 285.00 to 287.30; becoming slightly silty and darker grey from 288.00; irregular ironstone at 288.10				

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6-INCH MAP	B/H
SS 88 NW	23

Section of Margam 13

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Gamma high at 287.50	Mussel @ 288.40				
End of run 290.74	Wormy ironstone bands (Chubby worms).				
Dip 13° at 290.70	Sheared at 291.00, 291.15 and 291.35.				
	Thick wormy ironstone @ 291.90				
	Dark grey from 292.00				
	Sheared at 292.10.				
	Scattered coaly plant debris. Sheared/rashy 292.40 to 292.45.				
	Carbonaceous in base, welded contact			292	60
TWO FEET NINE	Thin coal in roof [Electric Logs]				
	COAL 1.34 stick .10 tiny fragments.	1	90	294	50
Sample 294.05 to 294.52	Seatearth, mudstone, silty, grey/dark grey, roots and stigmara. Small ironstone nodules from 295.00, carbonaceous debris.			295	10
Dip 23° @ 295.80	Mudstone, slightly silty, grey/dark grey ironstone masses. Steep shear at 295.50, rooty, packed with polished surfaces from 296.10 to base. Coal band at 296.46.			296	48
	COAL 4cms.		4	296	52
	Dirt 5cms. (Mudstone dark grey)		5	296	57
	COAL with thin dirt bands 17cms.		17	296	74
	Mudstone, dark grey packed with plant debris (some coalified) occasional coal streak, polished surfaces. Pyrite lens at 296.90. Sh/rashes at 297.00.			297	00
	Seatearth, mudstone - slightly silty roots. Steep shear at 297.10.			297	30
Dip 17° 298.00	Mudstone, silty grey, poorly bedded with sandstone bands, well preserved leaf; numerous ironstone bands 298.00 to 298.50; and from 299.00 to 299.20 with associated polishing, unbroken from 299.80.				
End of run 299.74. Sample 301.61 to 302.09	Faintly wormy, numerous ironstone bands from 301.00 with dark muddy bands. 4 cms. sandstone @ 301.50;				
Dip 15° @ 299.80.	becoming slightly silty, darker grey in base.			303	45

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6-INCH MAP	B/H
SS 88 NW	23

Section of

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 20° @ 303.30	COAL 55 cms. stick in all		10	303	55
	dirt - Mudstone - rashes		03	303	58
	COAL		42	304	00
	Seatearth - mudstone, dark grey roots and plant debris. Occasional polished surface; thin coal band at 304.10.				
	Shear at 304.20			304	30
	Mudstone, dark brown, planty, with polished surfaces, occasional roots.			304	50
	Seatearth - mudstone, slightly silty. Irregular ironstone 304.70 to 305.00			305	00
Dip 16° @ 305.20	Mudstone, silty grey/dark grey, rooty. 15 cms. sandstone band at 305.40, sandstone laminations below.			306	00
	Sandstone, fine/medium grained, light grey, ripple bedded throughout.			306	25
	Mudstone, very silty grey sandstone wisps and laminations, vertical joint from 306.25 to 306.80, polished bedding from 307.20.			307	70
Sample 306.98 to 307.42.	"Striped" beds - alternating bands of sandstone and mudstone, sandstone pre-dominant from 307.90, slumping in base.			308	10
Dip 17° @ 307.70	Sandstone, fine/medium grained, light grey, wispy bedded, "striped" from 308.80 to 309.30.			309	95
End of run 309.04	"Striped" beds, sandstone, very silty mudstone laminations. Ironstone band in base.			310	25
Dip 17° at 312.00	Mudstone, silty/very silty grey partings packed with plant debris.				
	Thick ironstone at 311.70; vague worm trails, polished surface with slickensiding at 313.00.			313	80
Dip 27° @ 313.95	Mudstone - broken/disturbed packed with polished surfaces, rashes/core fragments 313.95 to 314.00. Gouge 314.10 to 314.15			314	30
Dip 15° @ 315.30	Mudstone, very silty, grey, numerous sandstone laminations to 315.00, broken top				
Sample 315.98 to 316.43	10 cms. Fracture @ 314.85.				
	Silty from 316.00.				
End of run 316.04	Occasional polished bedding plane.				
	Steep shear with slickensiding at 316.55.				

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Occasional thick ironstone			319	50
Dip 15° @ 319.00	Mudstone, slightly silty, grey, wormy.				
	Low angled shears/broken from 319.95/320.05.				
	G. Carbonaria - becoming darker grey.				
	10ms. Inferior Coal Band at 320.12.				
	Rashy in base			320	20
	COAL		28	320	48
	dirt (core lost / on electric logs)		10	320	58
Lower Four Feet	COAL 1.34 stick (fragments in top)	1	24	321	82
	Rashes grey/brown.			321	90
	Seatearth- mudstone, silty, grey, scattered roots, Ironstone nodules.				
	Stigmara, listric surfaces in top.			322	05
	Sandstone, light grey, fine/medium grained, laminated, thick ironstone in base.			3 2	35
	Siltstone, grey, sandstone laminations.			322	60
	Mudstone, silty/very silty, grey, rooty, sandy wisps, poorly bedded. Small ironstone lenses.				
	Rashy at 323.05				
End of run 323.58	Core lost 38 cms to			323	58
Dip 11° @ 323.60	C. Kochi at 323.60 becoming silty/ bedded.				
	Occasional large ironstone. Steep shear planes 325.80 to 326.10.				
	Darker grey/slightly silty, polished bedding and steep polished surface to 326.80.				
Dip 12° at 327.00	Sheared/rashes at 326.80.				
	Silty/grey from 327.00.				
	Unbroken to 327.90; becomes slightly silty, faint mussel impression at 328.20; some C. Kochi.				
	Dark grey, wormy			328	46
	Mudstone, slightly silty, carbonaceous with ironstone nodules and coalified plant debris/coal lenses.			328	52

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	COAL 19 stick.		19	328	71
	Rashy Mudstone, grey/brown 8cm stick		8	328	79
	Rashes, black with coal streak 3 cm. stick		3	328	82
	Seatearth - mudstone, very silty roots.				
	Ironstone nodules from			329	70
	Mudstone, very silty, grey, sheared @ 329.80				
Sample 329.12 - 329.60	Sandstone laminations (slumped bedding) from 330. Numerous from 331.00 to 331.70.				
	Thick ironstone in base.			332	10
Dip 17° @ 332.00	Sandstone, medium grained, quartzitic, light grey, wisps, steep irregular joints.			333	00
	Siltstone, grey, muddy locally, sandstone bands, massive, unbroken, thick ironstone band in base.			334	50
Sample 334.49 to 334.97	Sandstone, fine/medium grained, light grey quartzitic carbonaceous wisps.				
	Irregular vertical fracture 335.30 to 336.00, massive/medium grained in base.			337	60
End of run 337.74	Mudstone, slightly silty grey/dark grey, wormy, mussel at 337.75.				
Dip 7° @ 337.80	Sheared with rashes at 337.86, 10cms. sheared ground to 338.05.				
	Polished bedding with occasional shear to 338.65.				
Dip 12° @ 339.70	Steep shear @ 339.45			339	85
	"Striped" beds - alternating laminations of sandstone and silty mudstone.			340	20
End of run 341.64	Mudstone, very silty, grey, sandstone laminations and bands. "Striped" beds 340.40 to 341.00, and from 342.00 to 342.50; laminations to 343.50. Sheared @ 344.00			344	00
	Mudstone, silty/slightly silty, dark grey, vaguely wormy with polished bedding planes. Thick ironstone at 345.15, with shear dips below.				
Dip 10° @ 345.00					

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Section of Margam 13

6-INCH MAP	B/H
SS88NW	23

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Sample 344.39 to 344.85	Sheared with rashes at 346.05, polished surfaces to 346.40, dark gray below.				
End of run 346.00	Polished surfaces from 346.60 to base, low angled shear at 347.00				
	Dark grey ferruginous band at 347.00 with mussel impression. Packed with polished surfaces to base.			347	07
	<u>COAL</u> 35cms pulverised fragments.		40	347	47
	Rashes, gray/brown (dark in top).				
	Coal trace at 347.77		55	348	02
SIX FEET SEAM	<u>COAL</u> /rash mixture 10		10	348	12
	Ironstone band 7		7	348	19
	Rashes gray/brown 8		8	348	27
	<u>COAL</u> 31 cms. fragments.		50		
End of run 349.68	<u>DRF</u> (core lost)		25		
	Sphaerosiderite band 05cms. (End of run here)				
	<u>COAL</u> 130 cms.	1	97	350	99
	Rashes, dark grey coal streaks in top 20cms.		40	351	39
	<u>COAL</u> /rash bands		07	351	46
	Rashes, gray/brown		26	351	72
	Rashes, dark with coal streaks/bands		20	351	72
	Rashes, brown.		14	352	06
	Mudstone, silty/very silty, grey leached appearance, scattered roots, sphaerosiderite in base.			352	47
	Mudstone, grey/brown, roots, sheared/rashy in top to 352.60.				
	Scattered sphaerosiderite.				
	Sheared at 352.80 and @ 352.88.				
	Sheared/broken from 353.10, locally rashy. 5 cms. rashes at 353.60. Coalified plant debris at 353.70.			353	70
	Mudstone, rashy/friable with fragments of mudstone from 353.70. <u>Gouge</u> in base.			355	10

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8-INCH MAP	B/N
SS 88 NW	23

Section of

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Seatearth - mudstone, silty, grey/brown roots, occasional polished surface, ironstone lenses.			356	00
Sample 356.00 to 356.45	Mudstone, silty grey, scattered roots and plant debris.				
Dip 14° @ 356.80	Sheared/broken 356.45 to 356.70.				
	Steep joints 357.00 to 357.50; broken/polished surfaces 357.65 to 357.95. Sheared/core fragments rashy from 358.35 to 358.65.				
End of run 358.69	20 cms. Ironstone at 359.60				
	85 cms. Ironstone at 359.95				
Dip 12° @ 360.40	Some large plant debris (Calamites)				
	Coalified plant debris @ 363.00.				
Dip 17° @ 363.50	20 cms. Ironstone at 363.80, with Hatchetite. Occasional thick ironstone, sheared with rashes 366.50 with polished surfaces to 367.00				
Sample 365.12 to 365.73	(Sandstone laminations from 367.00, thin sandstone bands from 368.00 to 368.60; partings packed with plant debris.			369	40
Dip 14° @ 367.60					
End of run 368.33	"Striped" beds, alternating sandstone/mudstone bands.			369	90
	Mudstone, slightly silty, grey/dark grey, scattered plant debris, some coalified - polished bedding throughout, sheared/broken with slickensiding @ 370.10. Wormy, mussel @ 370.45. Sheared with rashes in base.			370	51
Dip 11° @ 370.50	COAL 50 cms. stick		78	371	29
	Seatearth, mudstone, grey/brown roots packed with polished surfaces.				
	5 cms. rashes @ 371.33.				
	Grey/silty from 371.40, packed with polished surfaces from 372.00 to base.	1	24	372	53
CAERAU	COAL 30 cms. Fragments, 116cms. broken stick.	1	80	374	33
	COAL/rash 09 cms.		09	374	42
	Rashes, brown 05cm.		05	374	47
	COAL 05 cms. stick		05	374	52

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6-INCH MAP	B/H
SS 88 NW	23

Section of Margam 13.

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Mudstone, rashy, polished surfaces with occasional coal band.				
	5 cms. rashes at 374.65				
	2 cms. Inferior Coal @ 374.70			375	00
	Rashes grey/brown		05	375	05
	Mudstone, silty, grey, rooty, sandstone laminations firm.				
	Irregular fracture from top to 375.00.			375	45
Sample 375.10 to 375.45	Sandstone, light grey, fine/medium grained, silty laminations, bands through-out.			375	75
	Mudstone, silty/very silty, grey scattered plant debris.				
Dip 14° @ 376.20	Joint 376.00 to 376.50 with slickensiding.			376	65
End of run 376.73	Sandstone, light grey, fine grained, numerous ironstone bands to 376.90.				
	Laminations			377	23
	Mudstone, silty, grey sandstone laminations to 377.70, scattered plant debris and roots, faintly wormy.				
Dip 16° @ 379.30	Ironstone bands.				
	Mussel impression @ 380.80.				
	Sheared/rashes @ 381.05 to 381.20, several steep polished surfaces below to 381.50.				
Dip 30° @ 381.70	Sheared/rashy below to 381.65, locally slightly silty.				
	Solid mussel/wormy @ 382.00.				
	Core fragments 382.25 to 383.00, packed with polished surfaces, rashy on ironstone bands. Tight fold in core @ 383.20				
Dip 24° @ 382.90	Dark grey/slightly silty from 383.50, worm trails (especially in ironstone).				
Dip low in base.	COAL 20 cms. broken core.			383	81
	30 cms. pulverised core.				
Lower Red	20 cms. COAL/rash mixture.		72		
	dirt core lost		14		
	COAL core lost		34	385	01

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6-INCH MAP	B/H
SS 88 NW	23

Section of

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	70 cms. core lost in all				
End of run 385.21	including 20 cms. of floor lost.		20	385	21
	Rashes, grey/brown in top of next run, then				
	Mudstone, silty, grey, rooty, scattered plant				
Dip 5° @ 386.00	debris. Ironstone lenses with				
	pyrite 20 cms. Ironstone @ 386.40				
Dip 10° @ 387.00	Slightly silty/dark grey from				
	387.20, slightly carbonaceous				
	with coalified plant debris at				
	387.80.				
	Sheared/rashes @ 387.90.				
	Grey from 388.05.				
	Silty from 388.70				
Dip 12° @ 390.00	Slight shear @ 390.60.				
End of run 391.70	Several vertical joints with				
	slickensiding 394.08 to 395.00.				
	Slight shear @ 395.80.				
Dip 9° @ 392.30	Sub-vertical jointing 396.00 to				
	396.50.				
	Slightly silty/carbonaceous from				
	396.00, wormy in parts, otherwise				
	smooth to 396.50				
	Grey/silty from 397.50.				
Dip 10° @ 396.00	Sandstone band @ 397.85.				
Dip 11° @ 398.25	Several polished/slickensided				
End of run 398.21	bedding planes @ 398.80				
	Core lost 20 cms. to			399	00
Foraky Barrel (Bearing dropped in hole)					
	Sandstone, light grey, fine grained, ripple				
	bedded.			399	60
	Mudstone, silty, grey, scattered plant debris,				
	occasional sandstone laminations,				
	shear with rashes @ 400.10.				
	Sheared @ 400.32				
Dip 12° @ 400.25	Slight shears 400.60 to 400.70,				
	partings packed with plant debris.				
	Sheared/rashy mudstone from				
	400.95 to base.			401	17
	COAL 75cms. broken stick		63		
	± siderite band				
	Siderite band/coal		09		

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6-INCH MAP	B/H
SS 88 NW	23

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	<u>COAL</u>	1	05		
	40 cms. fragments.				
	S				
End of run 402.62	End of run				
	1.00cms fragments				
	<u>Siderite band</u>	07		403	01
	<u>COAL</u>	66		403	67
UPPER NINE FEET.	Dirt including 10 cms. Ironstone, 20 cms.	20		403	87
	<u>COAL</u> 30 cms. pulverised fragments.	50		404	37
	Rashes, grey/brown and ironstone band.	10		404	47
	Core lost. 18cms. to			404	60
Sample 404.83 to 405.26	Mudstone, silty, dark grey, roots, coalified plant debris; numerous ironstone nodules to 404.80.				
End of run 404.61	20 cms. fractured ironstone band, occasional thick ironstone.				
	Sheared/rashes 405.80 to 405.90; becoming grey/no roots.				
	Sheared/rashes 406.60 to 406.85.				
Dip 12° @ 406.40	Sheared/broken @ 408.00.				
	Wormy.				
End of run 409.03				409	70
	Sandstone, light grey, carbonaceous wisps. (fast drilling)				
Dip 10° @ 410.40	Mudstone, silty grey, sheared/rash @ 411.30, darker/less silty, occasional sandstone laminations below.			410	35
Sample 410.62 to 411.12	Scattered plant debris.			413	90
	"Striped" beds, alternating sandstone/silty mudstone bands, ripple bedding.				
	Thick ironstone in base			414	50
	Mudstone, silty, grey/dark grey sandstone laminations from 414.60				
Dip 5° @ 414.80	15 cms. sandstone band @ 415.00			415	35
Dip 10° @ 415.20	Mudstone, rashy/shears to 415.50 dark grey mudstone with coalified plant debris to base.			415	56
LOWER NINE FEET	<u>COAL</u> 35 cms. pulverised fragments. (poor response on electric logs)	40		415	96
WASHOUT?					
End of run 416.16	Sandstone fragments with coaly streaks, vague seatearth texture.				
	Mudstone, silty, grey/numerous roots.				
	Ironstone nodules, polished surfaces, especially from 417.05 to 417.30; becoming dark grey/slightly silty, packed with plant debris, some coalified.				

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6-INCH MAP	B/N
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Section of

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Sample @ 417.38 to 417.83	Sheared at 417.30; silty below, sandstone laminations			418	00
	"Striped" beds - alternating sandstone/mudstone bands, ripple bedding, erosive base.			418	42
	Mudstone, silty, grey, sandstone wisps, low angled fractures in sandstone band at 419.00.				
Dip 7° @ 418.80	Fractured sandstone band 419.20 to 419.45, less silty below, broken with irregular fractures from 421.50, steep shearing with rashes @ 421.75; broken core to 422.40 with steep joints.				
End of run 422.93	Ironstone band 422.50 to 422.70 Gouge below with mudstone frag- ments, steep shears to 422.90. Broken, rashy mudstone below, wormy, shears to base, becomes slightly silty/darker grey.			423	28
Dip low	<u>COAL</u> 40 cms. stick - pulverised/ disturbed.		46	423	74
[disturbed]	Steep base.				
	Gouge with fragments of mudstone and ironstone.			424	15
	Mudstone, silty, grey, rents, ironstone nodules, highly fractured, packed with polished surfaces.				
	Sheared/rashes 424.40 to base.			424	60
	Gouge, grey/brown fragments of mudstone, friable, clayey.			425	00
	CORE LOST 45 cms. to			425	45
	Mudstone fragments 425.45 to 425.60. Ironstone lens at 425.60 Rashy/sheared mudstone below. (Core fragments to 426.30			426	40
	Gouge, grey/brown, traces of pulverised coal at 426.50. Dark grey in parts, fragments of mudstone and ironstone				
	Coal band at 426.70.				
Dip 70° @ 426.70	Coal fragments at 426.75.			426	90
	Mudstone, silty/very silty, grey, sheared/ broken from top with slickensiding.				

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8-INCH MAP	B/H
SS 88 NW	23

Section of **Margam 13**

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Ironstone @ 427.25.				
	Sheared/rashes below to 428.00, in broken mudstone, becoming less silty/darker from 427.50.				
	Wormy (G. Carbonaria), dark grey, micaceous with coalified plant debris at 428.00, silty below with sandstone laminations to			428	25
	Sheared in base.				
Dip low	Seatearth - mudstone, very silty, roots, broken core/jumbled listric surfaces, sheared/rashes at 429.00. Solid core below packed with polished surfaces.				
	Ironstone lenses.				
	Sheared/rashes at 429.25.			429	50
Dip 25° @ 430.05	Mudstone, silty, grey, sheared with rashes locally from 429.70 to 430.10, sandstone laminations below.				
Dip 50° @ 431.40	Rashy 430.30 to 430.65; broken below, thick ironstone bands.			431	44
End of run 431.44	Rashes/core fragments on top of run				
	Seatearth - mudstone, silty, grey/brown, packed with roots, listric surfaces. Gouge with core.				
	Fragments 431.60 to 431.80			431	80
	Siltstone, grey, massive with sandstone laminations (no roots), packed with polished surfaces, thick veined ironstone @ 432.			432	40
	Mudstone, very silty, grey, massive, polished surfaces. Numerous irregular fractures from 432.60.				
	Sandstone laminations from 432.80.				
	Fractured/broken below to 433.25			433	80
	Sandstone, light grey, silty bands			434	35
	Mudstone, very silty, grey, micaceous, scattered plant debris, sandstone laminations, slump structures.				
Dip 21° @ 435.00	Occasional thin ironstone packed with sandstone laminations 436.50 to 436.80.				

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6-INCH MAP	B/H
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Section of

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Silty from 437.50, occasional thick ironstone band.				
	Slight shear @ 438.25.				
Dip 20° @ 438.60	Sheared @ 439.80.				
	Steep joint 440.10 to 440.40				
Dip 21° @ 439.70	Mudstone, slightly silty, grey, packed with polished surfaces.			440	50
End of run 441.00	20 cms. ironstone @ 440.75			441	00
Sample 441.13 to 441.60	Mudstone, very silty, grey, with sandstone laminations.			441	60
Sample 442.15 to 442.72	Sandstone, light grey, fine/medium grained quartzitic, laminations, irregular veining.			442	72
	Mudstone, silty, grey, sandstone laminations from 443.70.				
Dip 15° @ 443.90	Sub-vertical joint at 443.00 and 444.00.				
	Core fragments from 444.00 to 445.55.				
	Becoming slightly silty and wormy (G. Carbonaria) from 444.50				
	Sheared/rashy @ 444.50 and 445.00, polished surfaces, locally rashy.			445	55
YARD	COAL 1.00 fragments	1	26	446	81
	Seatearth - mudstone, very silty, grey/brown roots, becoming grey with sandy patches, listric surfaces.			447	50
Sample 447.87 to 448.43	Mudstone, silty, dark grey/grey, scattered roots; very silty in base.			449	00
	Sandstone, fine grained, light grey, silty laminations and bands.			450	00
	Mudstone, very silty, grey, rooty, sandstone laminations.			450	65
	Sandstone, light grey laminations, ripple bedding.			450	80
	"Striped" beds alternating sandstone/mudstone bands.			451	50
Dip 11° @ 452.20	Mudstone, silty/very silty, grey, scattered plant debris, sandstone bands.			452	20
	10 cms. sandstone in base onto				

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	COAL with dirt bands - 11 cms. stick.		11	452	31
	Mudstone, dark grey, packed with plant debris, coal streaks, polished surfaces.				
End of run 453.25	CORE LOST 57 cms. to			453	25
	Thin Coal (B.P.B. Logs)		10	453	20
Dip 22° @ 453.30	Seatearth - mudstone, dark grey, roots, plant debris, polished surfaces to 453.50.			453	50
	Mudstone, silty, grey, faint sandstone laminations, rooty.			454	10
Dip 20° @ 454.10	Rashes, grey			454	54
	CORE LOST 1.36 to			456	00
End of run 456.63	Mudstone, silty, grey, scattered plant debris, rooty, sandstone laminations and thin ironstone bands; polished surfaces. Core fragments 456.00 to 457.00; jumbled core fragments 457.00 to 460.90.				
Dip 20° 456.50	Fragments of slightly silty mudstone, rooty from 457.00				
	fragments of seatearth (dropped core?); fractured core @ 458.20, in very silty mudstone with sandstone laminations, rooty.			459	80
	Seatearth, mudstone, grey/brown rashy in top becoming silty/gray below, core fragments 461.20 to 461.70.			461	20
Dip 15° @ 461.80	Mudstone, silty, grey, rooty, sandstone laminations from 462.00, very silty in base.			462	30
	Sandstone, light grey, laminations striped in base.			462	85
	Mudstone, very silty, grey, partings packed with plant debris, sandstone bands in top. Sheared/rashy at 463.00. Sub-vertical jointing from 463.30 to 465.50. Sandstone laminations from 465.70 to 466.50.			466	90
Dip 18° @ 463.40	Mudstone, slightly silty/silty, well preserved plant debris, Calamites packed with polished surfaces friable from 467.46, locally rashy, rashes in basal 10 cms.			467	59
End of run 464.59	COAL 20 cms. stick 33 cms. broken stick		60	468	19
Sample 465.98 to 466.54					

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6-INCH MAP	B/H
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Section of

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Seatearth - mudstone, silty, dark grey roots, plant debris, coaly streaks, listric surfaces, sheared/rashy at 468.30; strong silty below			469	00
	Sandstone, light grey, fine grained, silty mudstone laminations. Ironstone nodules. Fractured 469.40 to 469.55. Pyrite in nodules below. Slumped structures. Mudstone band 469.90 to 470.05; Ironstone/mudstone/sandstone bands to 470.20. Fractures/veining 470.15 to 470.30. "Striped" in base.			470	60
Dip 12° @ 471.70.	Mudstone, very silty, grey, scattered roots, large ironstone nodules, silty from 471.00. Shear @ 471.05. Millerite in joint @ 472.60. Polished partings from 473.00.			473	00
	Mudstone, slightly silty, dark grey/grey, carbonaceous/core fragments.			473	81
End of run 473.61	<u>COAL</u> few fragments only	10		473	91
	Seatearth - mudstone, carbonaceous top, 5 cms., medium grey below with listric surfaces, dark grey roots, soft to 474.10, slightly silty below. Ironstone nodules at 474.90. Broken/rashy @ 475.20 to 475.50. Ironstone from 475.70 to 476.20.			476	20
Dip 10° @ 476.50	Mudstone, medium grey, slightly silty roots, coalified plant debris; small ironstone nodules. Silty with sandstone laminations from 477.30 with plant stems. Coaly threads @ 477.60.				
Sample 478.16 to 478.61	Sheared - with listric surfaces from 478.15. 20° fractures, near vertical polished surfaces at 479.50. Rashes from 479.50 to 480.20 with a little pulverised <u>Coal</u> at 480.00			480	20
Dip 50° on laminations at 479.00	Seatearth, mudstone, medium grey, slightly silty/silty, dark grey roots, unbroken. Very broken from 480.70 to base.			481	00
Dip 15° @ 482.00	Mudstone, slightly silty/silty, ironstone nodules; broken, sub-vertical fracture at 481.20; rooty. Large plant straps. Broken/sheared silty mudstone from 483.25 to 485.00. 80° fracture with slickensiding at 483.50.				
End of run 483.25.	Ironstone nodules, strong/silty from 486.45; broken with polished surfaces from 487.80 to 489.35; sheared with 35° fractures. rashes at 488.40				
Dip 20° @ 485.10					
Dip 30° @ 486.00					
Dip 25° @ 486.80					
Sample 486.07 to 486.51					

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
End of run 489.25	Core lost 30 cms. to			489	25
	Mudstone, very silty, grey, fairly strong. Ironstone nodules, quartz veining at 490. Sandstone laminations from 490.35, striped from 490.60 to 492.00. 25 cms. laminated sandstone in base.			492	90
Dip 20° @ 491.20	Siltstone, medium grey, fairly massive, finely micaceous.			494	10
Sample 493.47 to 493.87	Mudstone, sheared/rashy, sub-vertical dip. 30 cms. rasches @ 495.20. 40° fracture @ 495.20. 40° fracture @ 495.80			496	10
Dip 90° @ 494.10	Mudstone, slightly silty, medium grey, plant straps, thin ironstone bands to 496.50; silty below. 60° shear at 496.90.			496	90
Dip 90° @ 497.00	Mudstone, sheared/rashy, vertical bedding. Mudstone, silty, medium grey, occasional sandstone laminations. Ironstone nodules in top			499	75
Sample 500.07 to 500.52	Vertical fracture/polished surfaces. Broken @ 501.10 to 501.50. Clay gouge @ 501.20.			501	50
Dip 50° on laminations at 500.60 Dip 90° @ 501.00 End of run 501.10.	Mudstone, very silty, medium grey, plant debris, finely micaceous, sandstone laminations from 501.90 to 502.10. 60" polished surfaces @ 502.90.			503	90
Dip 45° on laminations at 502.00	Sandstone, pale grey, wispy bedded, quartzitic, broken/rashy @ 504.30; striped beds below to 504.00.			505	55
Dip 80° @ 505.90	Mudstone, very silty, grey, occasional sandstone laminations, very broken from 506.20 to 506.50.			507	00
End of run 507.40	Sandstone, fine grained, pale grey, quartz veining, muddy wisps.			507	80
Dip 25° @ 509.00	Mudstone, silty, medium grey, sandstone laminations to 508.20; rare plant debris. Slightly silty from 510.00. Occasional thick ironstone, fairly fissile, occasional polished surface. Ironstone bands and nodules. Rashy from 512.40 to base.			512	28
Sample 509.33 to 510.00	COAL few fragments, pulverised.	20		512	48
Dip 30° @ 511.00 Dip 40° @ 512.00	Mudstone, silty grey, (vague seatearth texture) roots @ 515.40, broken core packed with polished surfaces from 514.10 to 514.79. Steeply dipping polished surfaces 515.50 to 515.90				

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 60° @ 512.40 on laminations.					
Dip 45° @ 513.80 on laminations. End of run at 514.79.	Steep shear with slickensiding @ 517.25. Very steep polished surfaces in broken core @ 513.00. Very silty from 518.70. Calamites @ 518.80. Silty from 519.40 with sandstone laminations. 30 cms. ironstone @ 520.60; broken/rashy core from 520.60 to 521.15; gouge @ 520.80. End of sandstone laminations @ 524. Steeply dipping polished surfaces, broken core to end of run 525.61.				
Dip 26° @ 514.90	Very silty from 526.20 with scattered plant debris.				
Dip 40° @ 516.50	Vertical/sub-vertical fractures and polished surfaces.				
Dip 25° @ 517.00	Very broken/rashy 526.90 to 527.20.				
Dip 19° @ 518.80					
End of run 520.24					
Dip 65° @ 521.15 on laminations.	Vertical polished surfaces below. 30 cms. of sandy ironstone, dark grey @ 528.50. Steeply dipping polished surfaces and fractures from 529.00, becoming vertical @ 529.50.			529	60
Dip 90° @ 522.70 on laminations.					
Sample 522.40 to 522.95.					
Dip 70° @ 523.10 on laminations. End of run 525.61					
Dip 90° @ 529.50					
Dip 80° on laminations.	Sandstone, pale grey, medium grained, laminated, steeply dipping and polished; dark grey with abundant scattered plant debris. Pale grey laminations from 531.60 to 532.00; then similar dark grey sandstone with abundant plant debris.				
Sample 531.04 to 531.46	Vertical bedding in dark grey, fine grained sandstone at 533.00			533	15
End of run 533.15					
Dip 90° @ 534.20	Siltstone, medium/dark grey, sandy patches, abundant plant debris, very steep fractures. 40 cms. dark grey sandstone with coalified plant debris in base.			534	80
Dip 70° @ 534.90	Mudstone, very silty, medium grey, well preserved ferns (Neuropteris). Steep polished surfaces. Sub-vertical polished surfaces in dark grey, silty mudstone. Packed with partially coalified plant debris @ 536.00. Very silty from 537.10. Sandstone laminations from 538.20. Broken core 539.60 to 540.20. Steep polished bedding planes. Sandstone laminations from 540.20 to 543.30. Broken/rashes from 545.30 to 546.40; silty below numerous crosscutting steeply dipping polished surfaces from 546.40. Well preserved ferns, sandstone laminations @ 547.40			548	00
Dip 60° @ 536.40					
Dip 90° @ 539.00					
End of run 539.80					
Dip 80° @ 543.00					
Sample 541.90 to 542.41.					

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
End of run 549.17	Siltstone, medium grey, scattered plant debris. 55' polished surfaces.			549	17
Dip 70° @ 550.	Mudstone, very silty, scattered plant debris, silty with coalified large plant straps @ 550. Sheared/rashy at 550.50. Ironstone nodules at 553.30. Rashy from 553.45;				
Dip 90° @ 552.40	occasional ironstone from 553.82.			555	10
End of run 553.82					
Dip 30° @ 555.00	Siltstone, medium grey, plant debris. 10°				
Dip 10° @ 555.90	polished planes. Rapid changes in				
Dip 90° @ 555.95	dip 556.00 to 557.50; sandstone				
Dip 8° @ 557.60	laminations from 556.80.			557	60
End of run 568.65	Mudstone, silty with sandstone laminations, broken core from 558.10. Very				
Dip 20° @ 559.00	silty from 559.10, polished bedding,				
on laminations.	sandstone lens with thick ironstone				
Dip 17° @ 569.70	@ 560.10. Silty from 560.30,				
Dip 20° @ 561.00	partings packed with plant debris,				
Dip 15° @ 565.00	locally slightly silty and wormy,				
Sample 565.34 to	thin ironstone. 10 cms. rashes				
565.68.	from 564.90; partially coalified				
	plant debris @ 565.90. Wormy at			566	45
	566.40.				
	Mudstone, black, smooth, carbonaceous from				
	566.60; vaguely canaloid, pimples				
	@ 566.65, listric surface @ 566.68				
	Slightly silty @ 566.70, with				
	partially coalified plant straps				
	(Lepidodendron). Black rashes in				
	base.			566	93
End of run 567.37	COAL 48 cms. recovered, to end of run.	1	34	568	27
BUTE	core lost 1.10m. in all to			568	45
	Seatearth-mudstone, medium grey, soft/clayey				
	in top 20cms., silty with dark				
	roots below. Overholed/broken to				
	570.50.			570	80
Sample 569.49 to	Sandstone, fine grained, medium grey, large				
569.86	dark grey roots.			571	40
Dip 12° @ 571.60	Mudstone, medium grey, silty, scattered				
	plant debris, pale/medium grey				
	from 572.30, with medium grey				
	mudstone bands, wormy, occasional				
Sample 572.45 to	plant sten to 572.60. Sandstone				
573.50	laminations from 572.60, medium				
	grey from 575.80 with plant stems.				
End of run 576.49	Broken core from 577.00, packed				
	with polished surfaces @ 577.50.				
	Vague seatearth texture @ 577.70.			578	31
End of run 578.31	Sandstone, medium grained, pale grey, quartz				
	veining, laminated.			578	60
	"Striped" beds, interlaminated sandstone/ mudstone.			579	90

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in
Sample 579.91 to 580.22	Mudstone, slightly silty, medium grey, occasional sandy laminations in top 30 cms. Mussel fragments at 581.30. 20 cms. sandstone, fine grained with quartz veining @ 582.20, medium to dark grey, silty, finely micaceous. 50° polished surfaces and slickensiding @ 583.00. Slightly silty, dark grey, with listric surfaces from 583.00.				
Dip 24° @ 580.50	Rashy @ 583.10. Pyrite pimples at 583.40. Lingula @ 583.50 in black, slightly silty mudstone, finely micaceous.			583	59
Dip 10° @ 582.30	<u>GOAL</u> 18 cm. stick.		18		
	Dirt 3 cm.		3		
	<u>GOAL</u> 8 cms. fragments.		8	583	88
Dip 30° @ 583.88	Steeply dipping in base, mudstone silty, in immediate floor				
	Seatearth - mudstone, medium/dark grey, clayey rashes. Gouge @ 584.20 to 584.57. Broken mudstone with ironstone fragments, rashes to 585.00. 15cms. Ironstone band. 20 cms. rashes @ 585.35.			585	35
Dip 40° @ 584.50 in core fragments	Mudstone, silty, grey, medium grey with 60° listric surfaces with slickensiding. Sandstone laminations from 585.90 to 586.30. 70° slickensided polished surfaces from 585.90. Slightly silty with large plant stems from 586.50. Silty from 587.40.			587	72
Sample 586.50 to 586.89	Mudstone, very silty, medium grey, occasional large plant straps, irregular fractures.			588	40
Dip 20° @ 587.10	Seatearth - mudstone, silty, roots, medium grey, wormy in top. Rashy @ 588.90.			589	00
End of run 587.72	Mudstone, slightly silty, medium grey, plant straps.			589	52
Dip 15° @ 588.00	<u>GOAL</u> 77 cms. fragments. 46 cms. stick/broken stick. 18 cms. [high density band in middle of coal (siderite?).]	1	25	590	87
	Seatearth - mudstone, slightly silty, medium/dark grey, roots. Ironstone nodules.			591	50
YARD					

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Mudstone, silty, medium grey, ironstone nodules, roots, sandstone laminations to 592.10; becomes medium dark grey and slightly silty @ 592.90. Black rashes 592.93.			592	95
	Inferior Coal - 10 cms. stick.		10	593	05
	COAL/Mudstone mixture.		10	593	15
	Mudstone, dark grey, carbonaceous, planty.		18	593	33
	COAL Coal 19 cms. stick.		19	593	52
Dip 8° @ 593.32	Seatearth - mudstone, mottled dark grey/brown, coalified roots. Brown rashes from 593.65. 4 cms. black, rashy mudstone from		62	594	14
	COAL 20 cms. broken stick.				
	17 cms. stick.				
	13 cms. fragments.		50	594	64
	Seatearth - mudstone, dark grey/brown, rashy/clayey, roots from 594.70; continuing rashy. Rashes @ 595.95 and 595.70			595	90
	COAL/Mudstone mixture.		04	595	94
	Rashes - black		05	595	99
	Rashes - brown		11	596	10
	COAL 10 cms. stick.				
	30 cms. fragments.		58	596	68
End of run 596.55	Seatearth - mudstone, silty, dark grey roots, rashy.		30	596	90
	COAL/Mudstone mixture.		04	596	90
	Mudstone, dark grey, rashy, large fragments of coal in rashes. Rashes to 597.30.			597	30
	Seatearth, mudstone, silty, dark grey. Ironstone nodules			597	40
Sample 597.50 to 598.00	Mudstone, silty, medium grey, sandstone laminations to 597.60. Sandstone lenses 598.50 to 599.10; polished bedding. Broken core from 599.10, becoming slightly silty, packed with polished surfaces.			599	95
Dip 5° @ 599.00	COAL 9 cms. broken stick		10		
	Dirt 4 cms. fragments.		10		
	COAL 6 cms. broken stick.		20	600	35
	Seatearth - mudstone, silty, medium/dark grey roots, friable, listric surfaces.			600	50
	Mudstone, slightly silty, medium/dark grey, partially coalified plant straps, 40° polished surfaces, friable.				

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 5° @ 600.80	Roots @ 600.90 with ironstone nodules, medium grey/silty, worm burrows from 601.00. Sandstone laminations from 602.10. Cross-bedded to 604.00. Large plant straps and well preserved plants from 604.00. Broken from 606.00. Slightly silty, medium grey/brown with coalified plant straps from 606.10.			606	46
Sample 602.15 to 602.79.					
Dip 6° @ 609.10					
End of run 605.96					
Dip 5° @ 606.00	COAL [1.03 stick overall ± dirt band]		45		
	dirt		3		
	COAL	1	16	608	10
	Seatearth - mudstone, packed with polished surfaces, vertical breaks to 608.15. Rashes from 607.70 to 608.00. Silty with roots packed with polished surfaces from 608.05			609	00
Sample 609.20 to 609.62	Mudstone, silty, medium grey roots. Ironstone masses 609.90 to 610.20.			610	20
	Seatearth - mudstone, silty roots, medium grey, ironstone masses.			611	00
Dip 55° @ 611.50	Siltstone, medium grey roots, steep polished surfaces. Sandstone wisps from 612.00, packed with steep polished surfaces.			613	90
End of run 613.01	Mudstone, silty, medium grey plant stems, broken/rashy becomes very silty from 614.10. Sandstone laminations from 614.90 to 615.40, comminuted plant debris. Small ironstone nodules @ 615.10. Slightly silty from 615.50. G. Carbonaria at 615.70 with plant stems. Many polished surfaces, rashy and medium/dark grey from 616.00, core broken, vaguely wormy. Mussel in slightly silty mudstone, rashes in immediate roof.			616	34
Dip 5° @ 615.60					
	COAL [5 cms. fragments, 24 stick,]	c.	43	616	77
	[9 fragments.]	d.	09	616	86
core lost {	dirt			616	99
	COAL	c.	13	616	99
	Rashes, black.			617	47
	COAL pulverised.		02	617	49
	Seatearth - mudstone, medium grey, silty, rashy in top, roots @ 617.60. Very silty from 618.20. Ironstone mass from 618.50 to 619.00.			619	00
Dip 10° @ 619.40	Mudstone, very silty, finely micaceous, grey, well preserved ferns. Coalified plant stems; sandstone laminations from 620.00 to 620.50, some polished partings, coalified calamites at 622.00. Sandstone lenses from 622.50.			622	80
Dip 15° @ 619.70					
Sample 620.82 to 620.14					

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 8° @ 621.00	Sandstone, fine grained, medium grey, pale grey coarser bands.			624	00
End of run 622.24	Mudstone, very silty, medium grey, ferns and stems. 20 cms. fine grained sandstone with abundant plants at 624.70. Silty below, large Calamites. 50° slickensided fracture at 626.20. Small ironstone nodules at 627.60, very silty below 45° polished surfaces @ 628.10, and at 628.80, with slickensiding. Abundant plant straps/stems at 628.90, Ironstone mass @ 630.10.				
Dip 8° @ 624.50					
Dip 10° @ 626.00					
Dip 7° @ 627.50					
Dip 5° @ 628.80					
End of run 630.85					
	CORE LOST 20 cms. to			630	85
	Strong roof.			631	37
	COAL 60 cms. stick.		70	632	07
	Floor lost 20 cms. to			632	27
	Rashes		06	632	37
	Mudstone, silty, medium grey polished surfaces, thin ironstone bands. Slightly silty from 632.80.			633	50
Dip 9° @ 632.60					
	Siltstone, medium grey, sandstone laminations, plant debris. Slip planes from 639.70 to 635.00. Sandstone bands from 638.60			639	00
Sample 634.41 to 634.76					
	Sandstone, pale grey, medium grained, wispy.			639	80
Dip 60° on sandstone laminations.					
	Mudstone, silty, medium grey, abrupt change, very broken packed with polished surfaces, 80° fractures. Canneloid mudstone; basal 6 cms packed with polished surfaces.			641	72
	COAL 50 cms. stick. 45° pyrite band 16 cms. from base.		90	642	62
	Mudstone, black, smooth, packed with polished surfaces, very carbonaceous.		40	643	02
	COAL 20 cms. pulverised with mudstone fragments.		48	643	50
	Seatearth-mudstone, medium grey, tough sandy patches, thick ironstone at top. Jumbled broken core from 644.00 to 644.90, polished surfaces.			644	40
End of run 644.00					
	Mudstone, silty to slightly silty, medium grey, polished surfaces and bedding planes. Ironstone nodules. Calamites, broken/rashy from 645.50				
Dip 15° @ 645.00					
	Steep fractures at 647.00, rashes @ 647.20. Variable dip, folds in core with steep fractures from 647.50 to 649.00. Rashes from 648.20.				
Variable dip 35/40 @ 647.50 to 647.80.					

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 28° @ 649.10	Largely unfossiliferous, occasional small stem. 40 cms.				
Dip 36° @ 650.20	ironstone @ 651.50. 45° fracture				
Dip 60° @ 650.70	@ 653.10, broken, rashy core				
Dip 47° @ 652.00	packed with polished surfaces				
Dip 75° @ 653.00	below to 656.10. Broken jumbled				
	core to 659.00. Sandstone				
End of run 653.43	laminations from 660.00 to 660.60.				
	40° fracture/polished surfaces,				
Dip 90° @ 654.50	coalified plant straps in dark				
Dip 90° @ 657.00	slightly silty mudstone to 660.70,				
to 659.00	silty below. Rashes medium grey/				
Dip lessens @	brown, clayey (Seatearth texture)				
659.90	from 661.10 to 661.25,				
	20 cms. core lost to 661.45.				
Dip 40° on lamination @ 660.10.	Well preserved ferns, occasional				
Dip 40° @ 661.00	polished parting, rashy with				
End of run 661.45	coalified plant debris in steep				
Dip 38° @ 661.60	ground @ 662.80, Millerite on				
	polished surfaces.				
	Core very broken, rashy packed with				
Dip 70/80° at	near vertical polished planes				
662.80	662.90 to 663.50, then silty				
	medium grey mudstone with abundant				
	ironstone nodules and pyrite to				
Dip 45° @ 664.30	664.20; Very silty with abundant				
	plant stems from 664.25, packed				
	with polished surfaces from 664.50.			664	80
	Rashes, black, occasional fragments of medium/				
	dark grey, slightly silty mudstone				
	with plant straps. Dark grey silty				
	and carbonaceous, Fish scales and				
	seed pods, pyrite specks.			665	75
BUTE (disturbed)	COAL 72 cms. large fragments, disturbed.		90	666	55
	(Thin coal only on electric logs,			667	55
	based on timings).				
	Core lost 1.00m. to				
	Mudstone rashings, black, sheared			667	77
End of run 668.27	Seatearth - mudstone, very silty, sandy				
	patches in top, roots, disturbed,				
	vertical fractures and polished				
	surfaces, very broken, silty from				
	669.50; Ironstone nodules from				
	670.60, broken/rashy 672.00 to				
	672.80,			673	00
	Mudstone, silty, grey, rooty with abundant				
	ironstone and pyrite, core more				
	solid and compact from 673.00, with				
	45° fractures.			667	50
End of run 667.51	Clay gouge (top of run)		10	667	60
Dip 30° @ 667.80	Mudstone, slightly silty to silty, medium grey				
	rooty, abundant polished surfaces,				
	broken from 667.51. Sandstone				
Dip 70° @ 679.50	lenses 679.80 to 679.90, broken				
	core/curved polished surfaces from				
	680.00. Rashes/contorted core @				
Dip 35° @ 681.50	680.90 to 681.25, polished bedding				
	plane, scattered plant debris				
	@ 682.20.				

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*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Broken core from 682.30.				
	20 cms. of clay gouge from 683.00,				
	20 cms. ironstone from 683.20,				
	with ironstone nodules, large roots				
	@ 683.90.			685	30
Dip 15° at 683.90	Seatearth- mudstone, silty, medium grey, dull grey roots.			685	46
Dip 12° @ 685.00					
End of run 685.46					
	Mudstone, silty, medium grey roots to 686.79.				
	30° fractures with slickensiding,				
Dip 8° @ 686.80.	broken core, irregular dips, quartz veining from 686.95.			687	00
Sample 689	Seatearth - mudstone, very silty, medium grey, dull grey roots. 40° polished surfaces. Abundant ironstone nodules from 689.00 to 692.00. Vertical fractures with Millerite and 45° fractures and polished surfaces.			691	00
	Mudstone, silty to slightly silty, medium grey polished surfaces, abundant ironstone nodules polished bedding planes. Medium to dark grey and well preserved ferns from 692.90; 10 cms. dark grey clayey rashes from 693.00. Large Calamites, 10 cms. black rashes @ 693.80; becoming slightly silty with blebs.			694	48
End of run 693.11					
Dip 30° @ 693.20	<u>COAL</u> (Core lost)		30	694	78
	72 cms. core lost 694.06 to 694.78.				
	Seatearth - mudstone, silty, medium grey, dull grey roots. Broken and clayey with polished surfaces from 695.70 to 696.10.			696	10
Sample No. 78 696.19 to 696.48	Mudstone, silty, medium grey, rooty in top 10 cms. Sandstone laminations to 697.00, fracture core with steep abundant polished surfaces and slickensiding. Ironstone nodules from 697.00, becoming medium/dark grey and slightly silty.				
Dip 35° @ 697.20	10 cms. Ironstone band at 697.40			697	60
	Rashes, clayey, black.			698	10
	Siltstone, dark grey, very planty, fairly fissile, occasional polished surface.			698	00
Dip 5° @ 698.15	Core lost 23 cms.			698	36
	<u>Thin Coal</u> (on gamma log)				
	dirt			698	36

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6-INCH MAP	B/H
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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	<u>COAL</u> (5cms. pulverised fragments recovered).		24	698	60
End of run 698.76	Seatearth, mudstone, silty, dark grey roots. 5 cms. of clay in top. Clayey, grey/brown from 698.76		52	699	12
	<u>COAL</u> 22 cms. fragments recovered)		60	699	72
	Seatearth - mudstone, medium grey/brown, dark grey roots, packed with polished surfaces, rashy.			699	90
	Mudstone, slightly silty, medium/dark grey, packed with polished surfaces, black, rashy mudstone in top.			700	20
	<u>COAL</u> 70 cms. fragments/pulverised mixture. 1	40		701	60
End of run 702.03	Core lost 67 cms. to			702	03
	Mudstone, slightly silty, dark grey, wormy contorted bedding, overturned, rashy.			703	65
Overtaken beds	Seatearth, mudstone, silty, medium grey, few roots. 15cms. sandstone/ironstone band in base.			704	50
Dip 8° @ 704.80	Mudstone, silty, medium grey, roots to 70 . becoming dark grey with abundant plant debris below. Ironstone fragments in base.			704	78
Dip 5° @ 705.20	<u>COAL</u> (core lost) based on timings.	30		705	08
	dirt (core lost)	24		705	32
	<u>COAL</u> (core lost) from electric logs	14		705	46
	Seatearth, mudstone clayey brown dark grey roots				
Dip 5° @ 705.80	Mudstone, silty, carbonaceous, abundant plant debris including seed pods.			705	94
	<u>COAL</u> (30 cms. pulverised core recovered)	60		706	54
	Seatearth, mudstone, light/medium grey, clayey/rashy, soft.			706	64
	Core lost 65 cms. to			706	99
	Seatearth, mudstone, silty, medium grey/brown, roots.			707	10
Dip 40° @ 707.45	Mudstone, silty, medium/dark grey, abundant plant debris, irregular listric surfaces; contorted bedding at 707.13, vertical/overtaken beds at 707.60. Coaly mudstone at 707.90. Small ironstone nodules at base.			708	20
Dip 90° @ 707.60					
Overtaken.					
Dip 20° @ 707.80					

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Seatearth, mudstone, silty, roots, thin sandstone band at 708.90; Ironstone nodules. 20 cms. Ironstone band at 709.50.			709	70
	Interlaminated/medium grey mudstone, pale grey sandstone.			710	50
	Mudstone, silty, medium grey, plant stems.			711	10
Dip 15° @ 710.60	COAL 11 cms. recovered.	11		711	21
Sample 712.58 to 712.15	Seatearth, mudstone, silty, roots. Ironstone nodules.			713	00
	Interlaminated mudstone/sandstone.			714	-20
End of run 715.38	Sandstone, pale grey, medium grained, quartz veining, muddy/carbonaceous wisps, quartzitic. 10 cms. mudstone band at 715.10. Quartz veining 715.50 to 716.40.			716	50
	Mudstone, with sandstone laminations (sedimentary structures).			716	80
Sample 716.36 to 716.98	Sandstone, fine/medium grained, pale grey, quartzitic, carbonaceous/muddy wisps. Quartz veining in top.			717	30
Dip 26° @ 718.50 (?sedimentary)	Mudstone, silty, medium grey, scattered plant debris, sandstone laminations with sedimentary structures to 718.20. Very silty from 718.20, sandstone laminations again from 718.90.			720	00
End of run 720.91	Core lost 1.34 to			720	80
	COAL (Core lost) approximately	70		720	70
	Gouge with 75° fractures, rashy, fragments of seatearth in clay gouge.			721	00
	Seatearth - sandstone, muddy, medium grey with roots and ironstone nodules.			721	40
	Interlaminated mudstone/sandstone, core broken with polished surfaces from 722.40 to 722.60.			723	50
	Sandstone, medium grained, dark grey, quartz veining in top, carbonaceous/muddy wisps.			726	00
Dip 10° @ 727.60	Mudstone, silty, medium grey, unfossiliferous. Broken from 727.10 and packed with polished surfaces, slightly silty/silty, and wormy from 727.60, rashy in basal 10 cms.			727	88
	COAL (few large fragments (2cms.))	02		727	90
End of run 728.35	?Seatearth - mudstone mainly brown/dark rashes, dark grey mudstone pellets. Broken to 729.00 with 30 cms. veined ironstone below.			729	30

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6-INCH MAP	B/N
SS88 NW	23

Section of

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Mudstone, very silty, scattered plant debris, medium grey, vertical jointing and polished surfaces. 10 cms.				
Dip 20° @ 729.50	Ironstone band at 731.40. Abundant plant debris.				
Dip 25° @ 730.50					
End of run 731.72					
Dip 13° @ 732.30					
	Sandstone band, muddy, laminated, medium grey packed with plant debris (straps/ferns) from 732.90 to 733.30.				
	Sandstone bands and laminations from 734.90, polished bedding planes.				
B.F.B. logs ran to 737.00m. except verticality log.	Sandstone laminations increase from 738.60.			739	00
End of run 737.28					
	Sandstone, pale grey, medium grained, mudstone laminations. Ironstone nodules at 739.90 and 740.20, becoming more muddy and medium grained from 740.60.			740	70
	Medium/dark grey with abundant plant debris from 740.60.				
	COAL/mudstone mixture (Raft)?	06		740	76
	Mudstone, cannaloid, smashed from 740.95 to 741.10; rashy below, sandy/coaly in immediate roof.			741	32.
FIVE FEET	COAL 45 cms. stick. 10 cms. pulverised.	60		741	92
	Clay, pale brown with many coal bands (seatearth?)			742	00
End of run 742.17	Sandstone, pale brown, abundant carbonaceous plant straps (roots?) in irregular bedding. Coal streaks and mudstone in base. Erosive base.			742	30
	Siltstone, medium grey, occasional sandstone laminations, slickensided surfaces @ 742.40. Plant straps at 742.40.				
Dip 70° @ 742.50	Small scale folding on sandstone laminations from 743.20. Sandstone				
Dip 70° @ 743.20	"balling" at 748.00. 60° polished				
on laminations.	surfaces at 750.80. End of				
Dip 90° @ 745.40	sandstone laminations at 752.00.				
on laminations.	Comminuted plant debris at 752.30.				
Sample 745.	Sandstone lenses at 753.30.			756	30
Dip 45° @ 748.50					
on laminations.				757	00
End of run 751.17	Sandstone, pale grey, medium grained, quartzitic.				
Dip 20° @ 751.80				757	50
Dip 5° @ 752.30	Siltstone, medium grey.				
Sample 755.					
	Mudstone, silty, medium grained and coalified plant straps, polished surfaces and rashy from 758.00, slightly				
Dip 5° @ 757.60	silty from 758.00. Well preserved plant debris @ 758.30.			758	70
	Mudstone, clayey, rashes.			758	76
	COAL 10 cms. pulverised recovered.	20		758	96

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6-INCH MAP	B/H
SS 88 NW	23

Section of Margam 13

*Delete as appropriate

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
End of run 759.01	Seatearth, siltstone, muddy, sandy in parts, medium grey, roots.			759	20
	Seatearth, mudstone, very silty, medium grey roots, clayey/rashy, 760.90 to 761.30.			761	90
Dips low	Mudstone, silty, medium grained, sandstone laminations. 10 cms. sandstone band at 762.30.			763	20
Sample 762.49 to 762.94	Sandstone, fine grained, pale grey, muddy wisps, quartzitic, mudstone laminations dominant from 764.60 to 765.00.			765	60
Dips low	Mudstone, silty, medium grained, sandstone laminations and sedimentary structures.				
End of run 768.17	End of sandstone laminations 768.60; silty/slightly silty from 768.60, more plant debris and micaceous in roof.			768	79
Dip 5° @ 778.70 FIVE QUARTERS	GOAL 40 cms. stick. 60 cms. fragments.	100		769	79
	Seatearth, mudstone, slightly silty, medium/dark grey, roots. Sandy in basal 30 cms.			770	70
Sample 772.29 to 772.74	Mudstone, silty, medium grey sandstone laminations/sedimentary structures, sandstone dominant from 774.50.			775	00
Sample 775.54 to 776.52	Sandstone, fine grained, quartzitic, muddy wisps, 30 cms. very silty mudstone from 776.50.			777	20
End of run 776.52	Interlaminated mudstone, medium grey and pale grey sandstone, sandstone dominant from 779.00			780	00
	Sandstone, pale grey, medium grained, quartzitic, muddy wisps.			781	00
	Interlaminated, medium grained mudstone and pale grey sandstone. 50 cms. of sandstone from 783.30			784	40
Sample 782.13 to 782.85	Sandstone, medium grained, pale grey muddy wisps, mudstone bands from 787.60 to 788.30. 30 cms. sandstone band to 792. Abundant muddy laminations from 793.00 to 793.30.				
End of run 787.17					
Sample: A 790.82 to 791.19	Mudstone band @ 794.10			795	10
B. 791.19 to 791.61.	Interlaminated medium grey mudstone and pale grey sandstone.				
End of run 796.41				797	70
Sample A: 796.35 to 796.17	Sandstone, medium grained, pale grey, carbonaceous muddy wisps to 800.20.			802	60
B: 796.77 - 797.37					

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6-INCH MAP	B/N
SS 88 NW	23

Section of

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
End of run 799.07	Siltstone, medium grained, large dark grey plant straps.			803	20
Sample A & B 799.95 to 801.78	Mudstone, silty, medium grey, scattered plant debris, some coalified, irregular polished surfaces and vertical joints, broken.			804	80
Dip 10° @ 803.00	Core lost 30cm. to			805	10
Dip 5° @ 803.50	Sandstone, pale grey, medium grained, occasional carbonaceous wisps.			805	32
Sample: - A 803. - 804.24 B 804.23 - 804.47	Conglomerate, fine grained, pale gray sandstone matrix with large rounded mudstone boulders orientated right angles to core.			805	82
	COAL 27 cms. stick. 13 cms. fragments.		50	806	32
	Quartzite, pale grey, dirty - muddy wisps.		24	806	56
9610064 [disturbed]	Mudstone, silty, medium grey, packed with irregular polished surfaces. (No roots seen).		14	806	70
	Sandstone, medium grained, paled grey, muddy, quartzitic, muddy lenses.		12	806	82
	COAL 40 cms. fragments recovered.	2	62	809	44
End of run 809.32	Seatearth, mudstone, very silty, strong medium grey, large roots, sandy patches.			813	00
Sample: A 809.75 to 810.38 B 810.45 - 810.42	Mudstone, very silty, medium grey roots, sandstone laminations 813.20 to 813.40, occasional polished bedding plane			814	20
Dip 30° on laminations @ 813.40	Mudstone, slightly silty/silty, medium grey. 10 cms. ironstone band @ 814.90. Sandstone laminations from 815.30. 20 cms. ironstone band at 818.20.				
Dip 15° @ 813.60					
Sample:- A 816.68 - 817.35 B 815.82 - 816.35	Plant straps.				
End of run 818.20	Core lost 40 cms. to			821	60
Dip 10/20° on sandstone laminations from 818 to 820.	Mudstone, silty, dark grey, micaceous. 60° joints @ 822.40. Slightly silty from 822.60. Calcified mussels @ 822.72. Large calcified <i>C. Pseudo-robusta</i> at 823.00 in ironstone band. End of mussels 823.30.				
Dip 15° @ 822.40					
Dip 15° @ 823.70					
	Mussel debris @ 823.70; small plant fragments. <i>C. Pseudorobusta</i> 824.10 to 824.53. Wormy from 824.60. Mixed medium grey/dark grey laminated mudstone.			825	30
Dip 10° @ 824.90					
Fish Coal	Inferior Coal - 6 cms. recovered.		06	825	36
	Mudstone, canneloid, black, smooth, conchoidal fracture.			825	41

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8-INCH MAP	B/H
SS 88 NW	23

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 20° @ 825.55	Mudstone, slightly silty, black, occasional partially coalified plant debris.				
	Smooth mudstone from 825.10. Scattered plant debris 825.73.			825	75
	Siltstone, medium/dark grey, carbonaceous, packed with plants.			825	82
	<u>COAL</u> Core lost.	10		825	92
End of run 826.72	Seatearth, siltstone muddy medium grey, dull grey roots.			827	00
Sample: A 825.90 - 826.22 B 826.22 - 826.52 Dip 15° @ 827.50	Mudstone, very silty, medium grey sandstone laminations to 827.50, rooty.				
	Sandstone bands and laminations from 828.00.				
	25 cms. ironstone band @ 828.30.			829	05
	Sandstone, pale grey, fine/medium grained quartzitic, mudstone swirls in top 10 cms. Mudstone wisps to 830.00.			831	50
Dip 15° @ 831.60	Mudstone, silty, medium grey, finely micaceous scattered plant debris. 80° joint @ 831.60. Sandstone laminations 831.80 to 832.20. Occasional ironstone band very silty from 833.20. Occasional sandstone laminations 834.00 to 835.30. Silty from 835.30, some vertical polished joints from 836.50.				
Sample 95 833.00	Occasional plant strap. <u>Planolites</u> sp. - like markings @ 837.50.			837	70
Dip 15° @ 836.80	Mudstone, slightly silty, medium/dark grey, wormy, broken core 838.30 to 839.00, fragments of thick ironstone, smooth dark mudstone from 838.80. Ostracods @ 838.90. Fish scale @ 839.00. Broken/contorted core with polished surfaces @ 839.20, polished surfaces below. Wormy to 840.00. Pyrite blebs @ 840.40. Coalified mussels from 840.60. C. Psuedorobusta from 840.80 to 841.50, disorientated.			841	80
Dip 20° @ 842.00	Mudstone, slightly silty/silty, medium grey, occasional sandstone laminations, polished bedding, wormy, broken core.				
End of run 843.03	CORE LOST 38cms. to			845	75
Dip 50° @ 844.00	CORE LOST 60cms. to			847	00
End of run 845.75	Mudstone, dark grey, silty, finely micaceous. Calcified mussels @ 846.90.				
Dip 90° from 845.75, becoming overturned.	C. Psuedorobusta @ 847.15. 10 cms. rashes @ 847.15. 25 cms. ironstone below; partially coalified plant debris, pyrite (marcasite) in vein.			850	10
Dip 40° @ 846.20					
End of run 848.78	Seatearth - mudstone, medium grey, carbonaceous, shiny, roots.			850	30
Dip 8° @ 847.00					

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6-INCH MAP	B/H
SS 88 NW	23

Section of

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Seatearth - siltstone, medium grey, dull grey roots.			851	00
Sample 850.44 to 850.85 Dip 5° @ 851.30	Mudstone, silty, medium grey, carbonaceous plant straps, sandstone laminations from 851.30, discrete roots @ 851.80.			852	50
	Striped beds, sandstone/silty mudstone laminations, bands of sandstone from 852.80, fault plane @ 853.00 with hard compact gouge dipping @ 35°.			853	00
Dip 5° @ 854	Mudstone, silty, medium grey, polished surfaces and sandstone laminations in top, occasional root, polished bedding to 853.50. Sub-vertical vein from 853.50 to 854.00.			854	10
	"Striped" beds, sandstone/mudstone laminations, thick ironstone in base.			854	75
Dip 75° @ 857.00	Mudstone, very silty, grey, scattered small plant debris, compact, several sub-vertical joints from 855.50 to 855.90, silty from 856.00. Polished surfaces/slickensiding from 856.50 to 856.60. Dip steepens below. Several steel polished surfaces then core fragments from 857.30 to 857.74. Thick ironstone @ 859.00, steep jointing @ 859.50, faint sandstone laminations from 860.00. Slightly silty, darker grey from 861.50 broken from 862.80 to 863.00, then 20 cms. of rashes with 30 cms. ironstone below. Dark grey from 863.50, micaceous with coalified plant debris. Core fragments 863.50 to 863.70 with jointing, low angled polished surfaces 865.00 to 865.87. Grey/wormy bands @ 865.50. Planolites sp. @ 866.40 with occasional polished parting. Core fragments 866.90 to 867.40; numerous polished surfaces below to end of run 870.70. Occasional thick ironstone, dark grey.				
End of run 857.74 Dip 85° @ 859.00 Dip 68° @ 861.00 Dip 55° @ 863.00 Dip 58° @ 864.00 Dip 65° @ 865.00 End of run 865.37 Dip 65° @ 865.46 Dip 45° @ 866.80 End of run 870.70					
	CORE LOST	1.56	to	811	76
Dip 90° @ 872.00 to 874.00 Dip 10° @ 874.30	Core fragments to 874.60, packed with polished surfaces, medium dark/grey, slightly silty, rashy @ 874.00, broken with irregular veining from 874.40 to 874.70.			870	85
Dip 20° on laminations at 875.00	Mudstone, silty grey with sandstone laminations, occasional polished parting, faint veining 875.50 to 876.00.				

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6-INCH MAP	B/H
SS 88 NW	23

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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
Dip 5° @ 876.40	Steep polished surfaces from 877.22				
End of run	to 877.80, dark grey/slightly silty				
877.22	from 878.50, scattered plant debris				
Sample 876.50 to	and ironstone bands. Worm trails				
876.99	@ 880.00. Chitinous mussel @ 880.50;				
	Mussel at 881.30. Large Mussel @				
	881.50, packed with polished surfaces				
	881.60 to 881.70. Broken ground at				
Dip 5° @ 878.00	882.50 to 882.90, rashes @ 883.10.				
End of run 880.35	Core fragments 883.30 to 885.80,				
Dip 5° @ 882.10	rashes @ 883.60, steep polished joint				
	884.00 to 884.50. Mussel with radial				
	ornamentation @ 885.00. Broken core				
Dip 65° @ 883.70	885.00 to 885.40 with polished surfaces				
Dip 50° @ 884.00	Small fold @ 886.60, polished surfaces				
Dip 20° @ 884.90	with slickensiding @ 886.60.				
Dip near 90° at	Occasional ironstone band, packed with				
886.10	polished surfaces 887.10 to 887.80.				
Dip 35° @ 886.50	Steep polished/ slickensided surfaces				
Dip 45° @ 887.90	below, occasional polished bedding				
End of run 888.00	plane. Steep joint @ 889.00.				
Dip 7° @ 888.50	Slight shear @ 889.40, medium grey				
Sample 99 888.57	from 890.00, occasional ironstone				
to 888.81	lens. Pyrite bleb @ 891.60. Vertical				
Dip 5° @ 891.00	jointing 891.80 to base, vaguely				
	wormy. Dark grey finely micaceous				
	with coalified plant debris from				
	891.95, slightly carbonaceous in			892	16
	roof with pyrite patches.				
GARW	COAL 17 cm. fragments recovered		64	892	80
	Seatearth - mudstone, silty, grey, packed				
	with roots, Stigmara with pyrite				
	@ 893.10; Ironstone lenses at				
	893.70, patches of sphaerosiderite			893	90
	@ 893.90.				
	Mudstone, silty, grey, rooty.			894	10
Sample 894.19 to	Sandstone, pale grey, fine grained, quartzitic,				
894.82	massive.			894	75
Dip 5° @ 896.00	Mudstone, silty, grey, medium/dark grey from				
	896.30; large mussel debris from				
	896.50. Fish scale, occasional dark				
Sample 101	ironstone becoming medium grey, shear				
897.72 to 898.21.	@ 897.70, thick ironstone below.			897	80
	Sandstone, pale grey, fine grained, striped				
	with silty mudstone laminations/bands				
	to 899.00. Slumping @ 898.80, laminated				
	below fractured/veined with Quartz/				
	pyrite infill @ 900.00; massive below				
	with darker bands, wisps from 901.				
End of run 901.95	45° fracture @ 901.40. Massive from				
Sample 902.13 to	902.00. Veining from 903.30 to base.				
902.74.	Several 55° veins from 904.00.				
	Wisps from 909.30.			904	75
Sample 905.25 to	Mudstone, very silty, grey, strong and				
905.65	compact, poorly bedded. Broken iron-				
	stone in top. Mixture sandstone/				
	mudstone to 906.00			906	40

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6-INCH MAP	B/N
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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Fault Zone dipping @ 80° from 906.40, highly broken and fractured on one side.				
	Core fragments of sandstone/striped beds to 907.30, recemented fragments of striped sandstone @ 907.20. Steep irregular base.			907	30
Dip 75° @ 907.30.	"Striped" beds, sandstone/silty, mudstone laminations fractured with irregular quartz veining.				
Dip 33° @ 907.60 on laminations.	10 cms. gouge @ 908.40. Core fragments from 908.10 to 909.50.			909	50
Dip 15° @ 908.00					
Dip 40° in fragments.	Mudstone, silty/very silty, medium grey, compact/strong, faint sandstone laminations; bands from 910.50 to 911.00. Steep vein from 910.00 and 911.15. Steep closed joints with small amount of displacement from 913.00.			915	00
Dip 10° @ 909.80					
Sample 911.35 to 911.74					
Dip 9° @ 913.80	Mudstone, grey, slightly silty, wormy, numerous polished bedding planes to 915.00. Rashy/broken, core fragments from 915.80 to 916.60. Rashes @ 916.10, dark mudstone packed with polished surfaces below to 916.60. Gouge @ 916.60. Small amount of plant debris. Sheared/broken @ 917.30, numerous polished surfaces below, becomes very dark grey, finely micaceous with scattered pyrites. Sheared/broken from 918.40 to 918.70, with some rashes packed with polished surfaces below to base, becomes medium/dark grey. Fish scale @ 920.30, dark grey in base.			920	45
Dip 5° @ 917.00					
End of run 918.08					
Dip 13° @ 919.20	Sandstone, pale grey, fine grained quartzitic laminations.			921	00
	Mudstone, silty/very silty medium grey sandstone laminations to 922.90. Wormy from 933.00. Planolites sp. Sub-vertical joint, locally slightly silty. Steep shear @ 925.60, broken rashy below.			925	80
Dip 5° @ 922.00					
Sample 924.00.	Siltstone, medium grey, sandy patches, strong/ massive with pyrite infilled tubes, irregular veining in top. Vague seatearth texture (no roots). Steep joints.			927	40
Dip 5° @ 926.30.					
Sample	Sandstone, pale grey, fine/medium grained quartzitic. Quartz veining @ 928.50, laminations from 928.90. Steep base 55°.			929	25
End of run 928.09	Rashes			929	40
Dip 35° @ 929.50	Mudstone, slightly silty/silty, medium grey polished surfaces. Rashy/broken from 930.00; vertical polished surfaces at 930.90. Thick worm trails, micaceous partings, steep joint @ 932.50.				
Dip 15° @ 931.00					

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6-INCH MAP	B/H
SS88NW	23

Section of Margam 13.

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
End of run 931.45	Planolites sp. (small) @ 933.05;				
Dip 15° at 931.45.	large Mussel @ 933.30.			933	45
Dip 5° @ 932.20.	Siltstone, medium grey, very tough and sandy, steep quartz veins from 934.00; muddy with pyrite infilled burrows in beds.			934	20
Dip 5° @ 934.40	Mudstone, medium grey, silty, very micaceous in base.			935	20
	Sandstone, pale grey, fine grained, quartzitic, muddy laminations from 936.00.			937	30
Sample	"Striped" beds, sandstone/mudstone laminations, cross bedding, low dips, mudstone dominant from 944.50, thin ironstone @ 945.90, very muddy in base.			948	80
End of run 949.89	Mudstone, silty, medium grey, large vertical quartz veins, vaguely wormy, occasional sandstone laminations, becomes slightly silty/silty, fairly fissile, compact core. Wormy horizons from 950.70, largely unfossiliferous, Sandstone wisps from 951.10 to 960.50, Fimples @ 952.00; thin quartz veining throughout @ 952.50. Plant strap @ 953.00, vertical joint 953.00 to 954.00 and 956.00.				
Dip 5° @ 949.50	Occasional thin ironstone, wormy from 957.30, small ironstone nodules at 959.40. Silty from 962.50. Sandstone wisps from 962.70. Slightly silty/silty from 963.50, wormy with plant straps (some coalified plant debris).				
Dip 8° @ 950.70	Pimples @ 965.20, very wormy/slightly silty from 965.50 to 966.10. Coalified plant straps @ 966.00. Medium/dark grey from 966.10; dark grey/smooth with pyrite blebs 966.80. Joint from 967 to 967.40, vaguely wormy @ 967.00. 10 cms. of Sphaerosiderite @ 967.35. Medium/dark grey, slightly silty, wormy, finely micaceous.				
Dip 5° @ 953.00					
Sample 955.					
Dip 5° @ 956.00					
Dip 5° @ 959.00					
Sample 961.00					
Sample 963.00					
Dip 5° @ 966.00					
End of run 967.95	Core lost 25cms.			967	95
Dip 5° @ 968.20	Pyrite patches, Fish scale @ 968.50, Dark grey from 968.80, with coalified plant debris. Fish scale @ 968.80. Thick, ironstone @ 969.50, medium/dark grey with rare pyrite. Irregular dark grey colouring below 97.00 to 970.30; steep polished surfaces @ 971.00. Silty and more massive from 971.50, with pyrite blebs and veining. Coalified plant debris @ 971.90.			972	00
	Seatearth - mudstone, silty, gray/brown leached appearance, roots, polished surface @ 972.35.			973	00
	Siltstone, grey, massive, rooty.			973	30

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6-INCH MAP	B/N
SS88NW	23

Section of

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Sandstone, light grey, wispy			973	70
Dip low	Mudstone, silty, grey, discrete roots, poorly bedded, sandstone bands to 974.00; rooty with vague seatearth texture @ 974.50 in solid core, becomes very silty with Ironstone nodules.				
Dip low	Stigmaria @ 975.00. Sandstone laminations below, darker silty bands from 976.00. Silty from 977.40 with occasional root packed with plant debris at 978.60, very silty below in patches. Sandstone laminations 979.80 to 980.00. Packed with plant debris, some coalified @ 980.70, plant straps and roots; patches of Sphaerosiderite @ 981.60. Slightly silty, rooty with polished surfaces from 981.80. Vague seatearth texture from 982.00 to 982.20 with polished surfaces/friable. Dark grey with scattered plant debris. Very dark grey/carbonaceous in base, packed with plant debris.			982	40
	COA L 20 cms. fragments. 45cms. pulverised.	65		982	05
	Core lost 60 cms. to			982	65
End of run 983.65	Seatearth - mudstone, grey/brown, hard/very silty from 983.80.			984	15
	Sandstone, fine grained, dark grey, quartzitic, hard quartzite band @ 984.50. 15cms. silty band below, sandstone/mudstone mixture to 985.25, massive below to 985.60. "Striped" to 986.20. Medium/coarse grained dirty grey, very quartzite (glassy texture) brittle, carbonaceous debris, sub vertical fracturing from 987.00 to base, speckled with white felspars? Conglomeratic bands from 987.50 with large quartz grains.			987	75
	Conglomerate angular fragments of quartz, well cemented, dirty grey, very quartzitic, sub-vertical fracturing throughout, coaly threads. Rock fragments below with specks of white felspar?.			988	72
Dip 43 @ 989.80	Mudstone, slightly silty, grey, core fragments from 989.00 to 990.30; rashy from 989.80 to 990.30; pyrite blebs from 991.30, darker grey and more silty				
Dip 23 @ 990.50	Lingula @ 993.00. Vertical joint at 992.10.				
Dip 5° @ 992.00					
MARGAM MARINE BAND	Core lost 42 cms. to			992	62

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FARM P 71
SERIES 680

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8-INCH MAP	B/H
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GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
End of run 992.30	Sub-vertical joints at 993.20 packed with pyrite blebs, broken core 993.50/993.70, and 994.10/994.30. P.Ophthalmoides at 993.70. Sub-vertical joints 994.50 to 994.80. ?Nautiloid and ?Ostracods @ 995.10. Fish scale at 995.50. Strong/silty from 995.50 with pyrite blebs to 997.80. Large P. Ophthalmoides. Ironstone bands from 998.00, becomes slightly silty with scattered plant debris (some coalified) Packed with plant debris from 99.10 to 999.30, scattered plant debris with P. Ophthalmoides, fairly fissile, rashy in base.			1000	22
Dip 5° @ 995.00					
Dip 5° @ 1000.30	Seatearth-mudstone, very silty, grey, sandy from 1000.70 to 1001.20, roots below.			1001	90
End of run 1000.50	Sandstone, fine grained, light grey, carbonaceous roots. Slumped in top, grey siltstone bands from 1002.40			1002	80
	Mudstone, very silty, grey roots, vague seatearth texture.			1003	70
Dip 7° @ 1003.70	Mudstone, silty/slightly silty, dark grey/brown, rashy, coal streaks @ 1004.18, dark grey rooty below with polished surfaces, rashy, mainly fragments from 1004.25 to 1005.00.			1005	15
	Siltstone, grey/dark grey, rooty, scattered sphaerosiderite.			1005	50
	Mudstone, silty, grey/brown roots, vague seatearth texture, broken, packed with polished surfaces 1005.50 to 1005.90. Sphaerosiderite			1006	35
Sedimentary dip 12° @ 1007.80.	Sandstone, pale grey, fine grained, quartzitic, silty bands, sub-vertical quartz veining from top, green mineralisation on veins @ 1007.00 (Chlorite?) Silty bands 1007.80 to 1008.10, broken core (jointing) 1008.10 to 1008.60. Silty laminations from 1009.00. Sub-vertical joints/irregular veining 1009.40 to 1011.30. Medium grained from 1009.00. Medium/coarse grained 1010.00 with wisps and white specks (Felspar?) to 1011.40. Red staining in base.			1011	40
End of run 1010.42					
Dip low	Siltstone, grey, massive, scattered plant debris, sandy, reddening in core fragments from 1012.80, slumped in base.			1012	90

YPU.918



FORM P 71
SERIES 680

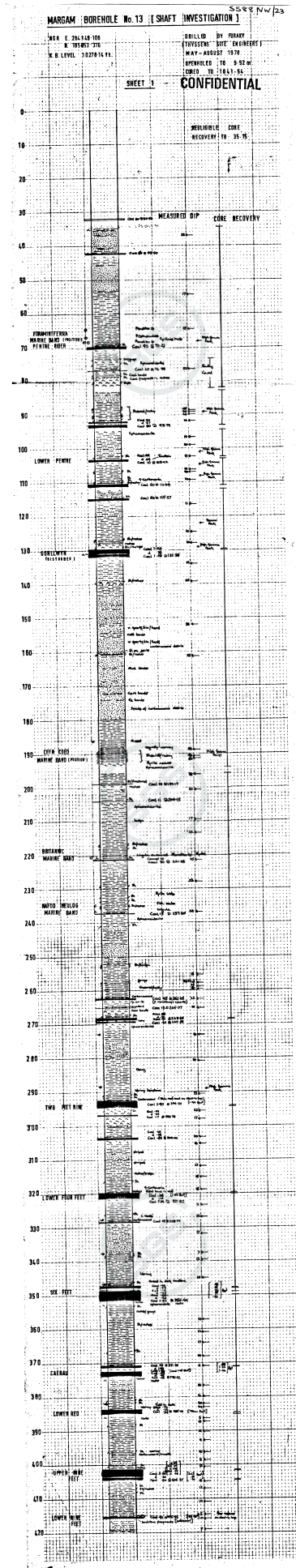
- 52 -

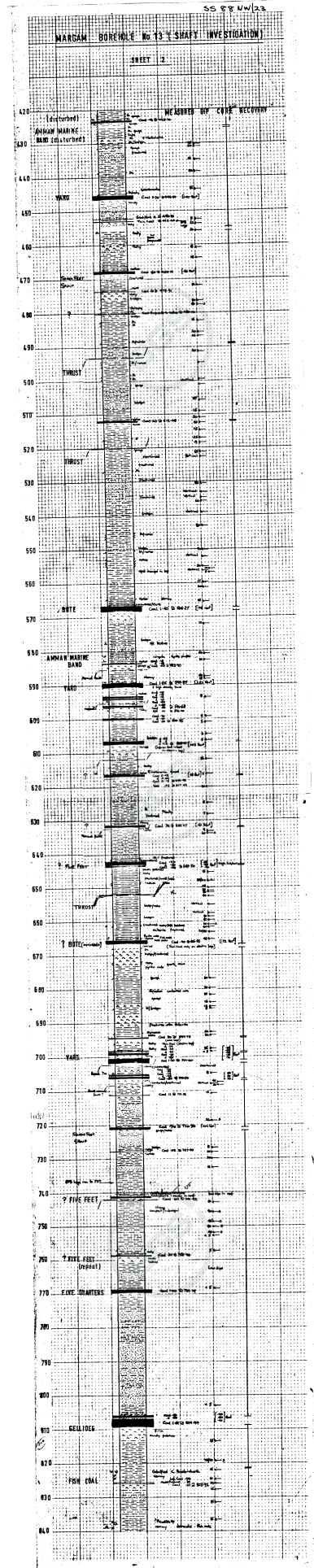
6-INCH MAP	B/H
SS88 NW	23

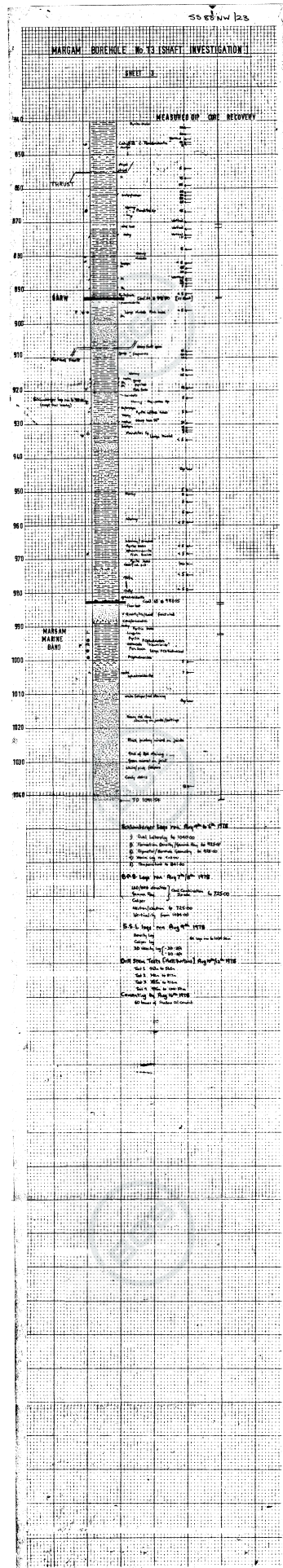
Section of

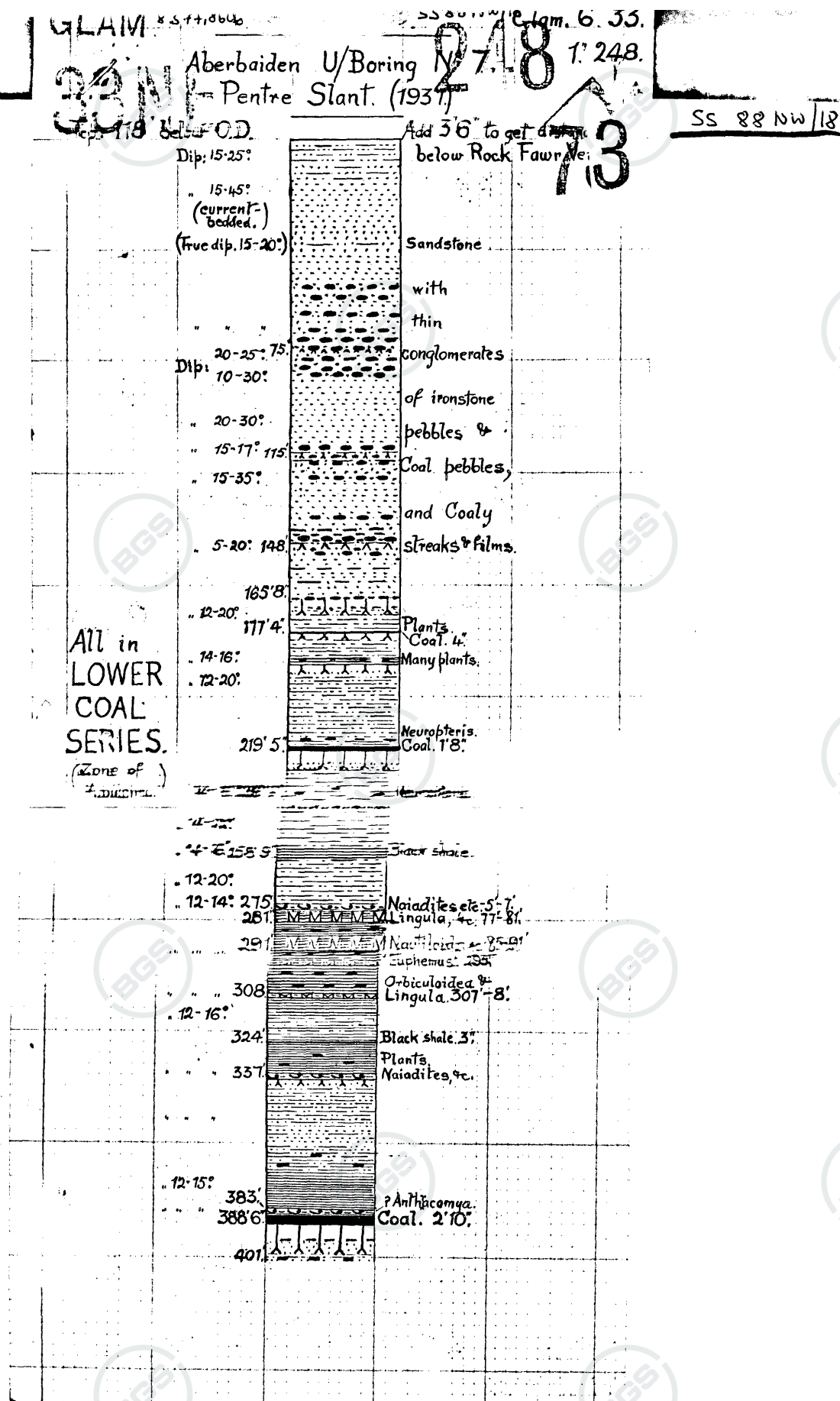
GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	*Delete as appropriate			
		THICKNESS		DEPTH	
		m or ft*	cm or in*	m or ft*	cm or in*
	Sandstone, fine grained grey/light grey, quartzitic with sub-vertical quartz veining from top, irregular in places, laminations. Red "clay" on some joints. Black powdery mineral (carbon?) on joint @ 1014.20, occasional carbonaceous lamination; heavy reddening on partings and joints 1016.70 to 1018.00. Red Clay on partings @ 1017.00. "Green" colouring around closed joints @ 1018.80, fine/medium grained from 1020.80 with slight reddening of grains. Carbonaceous debris @ 1022.90, reddening at 1024.00, with black powdery mineral on joints. Grey sandstone with carbonaceous wisps from 1023.50 to 1027.20. Red staining to 1028.00. Core fragments from 1028.20 to 1029.60 in jointed ground. Green staining on joints 10cms. band with ironstone pellets at 1030.10. Fine grained below with coaly wisps, medium grained with specks of white and pink feldspars. Irregular coaly debris from 1034 to 1034.80 with bands of coarser sandstone. Ironstone pellets @ 1034.20.			1036	10
End of run 1027.97					
End of run 1032.72.					
	Mudstone, very silty, grey, compact, faint sandstone laminations.			1038	10
Dip 13° @ 1036.50	Siltstone, grey, massive sandstone bands/lenses. 1038 to 1038.30.			1038	60
End of run 1040.20					
Drilled to clear hole for Schlumberger TD 1041.54	Sandstone, light grey, quartzitic, fine/medium grained with carbonaceous debris, massive. Sub-vertical quartz veining 1040.20 to 1040.80. Medium/coarse grained to 1041.00.			1041	54
	End of hole				
	Logs run				
	Schlumberger - August 4th/5th/6th 1978				
	B.P.B. - August 7th/8th 1978.				
	S.S.L. - August 9th 1978.				
	Drill stem tests/Haliburton				
	August 10th/11th/12th; cemented with 60 tonnes of Shallow Oil Well cement by August 16th, 1978.				
	Schlumberger Logs : Dual laterolog (1040m); Density/Gamma Ray (923m); Dipmeter/Bore hole Geometry (923m); Sonic (923m) Temperature (84in)				
	BPB Logs : LSP/BBG Densities, Gamma Ray, Caliper (725m) Neutron/Neutron (725m) Verticality (1040m)				
	SSb logs				
	Density, Caliper, 3d Velocity (3ft/16ft) (1040m)				
	Drill Stem Tests				
	(1) 463 to 565				
	(2) 742 to 817				
	(3) 825 to 916				
	(4) 995 to 1040				

YPU.918









GEOLOGICAL SURVEY AND MUSEUM.

BOREHOLES AND SHAFTS.

SS 88 NW 1 10
8377.8606

248

NAME OF SHAFT

N. 7, in N. 7 West

County Glen.

6-in. Map 33 NE

Pentre Llant Aberlaiden Colliery

GSM

700

Top of Bone: 118' Below

O.D.

One-inch Map

248.

Communicated 27.1.37 to 1.4.37 by Messrs Baldwin's, Ltd.

Date of sinking 31.10.36 to 22.1.37 Borer Francois Benetation Co. Ltd. (F. G. Benetation)

Specimens Bc. 1222-1272 Dip of Seam 12 in. p. yard Section drawn

Notes by A.J.	Description.	THICKNESS.		DEPTH.	
		Inches.	Feet.	Inches.	
Grey ls. 8 1/4' to 11 1/4' at top of 6' at base.	Top of Bone is c. 3' 6" below Rock Fair Seam				
	to add 3' 6" (finally) to get distance below Rock Fair Seam				
12-15' Hard light grey to grey sandy shale with some thin layers of coal	grey chaly rock	15	10	14	10
15-18' Hard grey rock	Hard grey rock	60	10	75	8
18-20' Dark grey shale	Dark grey shale		3	75	11
20-22' Hard grey sandstone	Hard grey sandstone	2	9	78	8
22-25' Grey rock with coal markings	grey rock with coal markings	18	10	80	2
25-28' Grey rock	grey rock	12	3	99	3
28-30' Shaly rock	Shaly rock	1	8	112	11
30-32' Soft dark grey shale	Soft dark grey shale	2	2	115	1
32-34' Shaly rock	Shaly rock	1	2	116	3
34-36' Grey rock	Grey rock	3	9	120	
36-38' Hard grey rock	Hard grey rock	24		144	
38-40' Grey rock with coal markings	grey rock with coal markings	4	6	148	6
40-42' do. do. do.	do. do. do.	1	10	149	6
42-44' Grey rock	Grey rock	14	4	164	4
44-46' do. do. do.	do. do. do.	1	4	165	8
46-48' Grey chaly finely, strong	Grey chaly finely, strong		3	165	11
48-50' Hard grey finely, strong	Hard grey finely, strong		5 1/2	165	11 1/2
50-52' Dark grey shale	Dark grey shale	1	7	167	5
52-54' Coal	Coal	9	4	171	
54-56' Dark grey finely, strong	Dark grey finely, strong		4	177	4
56-58' Hard grey finely, strong	Hard grey finely, strong		9	177	8
58-60' Dark grey shaly rock	Dark grey shaly rock	5	3	183	5
60-62' Dark grey shale	Dark grey shale	3	1	186	8
62-64' Soft shale w. ironstone nodules	Soft shale w. ironstone nodules	4	3	191	9
64-66' Strong chaly rock	Strong chaly rock	2	4	193	4
66-68' Sandy shale	Sandy shale	3	8	197	
68-70' Dark grey shale	Dark grey shale	20	9	217	9
70-72' Coal	Coal	1	6	219	5
72-74' Dark grey finely, strong	Dark grey finely, strong	1	3	220	8
74-76' Hard grey shaly finely, strong with ironstone nodules	Hard grey shaly finely, strong with ironstone nodules	2	6	223	2
76-78' Hard grey shaly rock	Hard grey shaly rock	2	10	226	
78-80' Strong grey shale	Strong grey shale	8	9	234	9
80-82' Sandy shale w. ironstone nodules	Sandy shale w. ironstone nodules	1	3	235	6
82-84' Sandy shale w. coal markings	Sandy shale w. coal markings			236	9

GEOLOGICAL SURVEY AND MUSEUM.

BOREHOLES AND SHAFTS

No. 7. *UPB. Pantre Street,*
Aberbaiden Colliery (cont)

Folio

County

6 in. Map

248

70

Description.	THICKNESS.		DEPTH.	
	Feet.	Inches.	Feet.	Fathoms.
<i>See to strong, sh. grey shale, with some small pieces of ironstone.</i>	3	9	236	9 1/6
<i>Strong grey shale.</i>	14	6	240	
<i>Black shale with small pieces of ironstone.</i>	3	3	255	3
<i>Black shale with small pieces of ironstone.</i>	3	6	258	9
<i>Strong grey shale.</i>	16	3	275	
<i>Grey shale with ironstone nodules.</i>	6	7	281	7
<i>Dark shale.</i>	3	1	284	8
<i>Strong grey shale.</i>	9	4	294	
<i>Dark grey shale with ironstone nodules.</i>	5		299	
<i>Dark grey shale.</i>	10		309	
<i>Grey shale.</i>	10		319	
<i>Grey shale with ironstone nodules.</i>	13		332	
<i>Broken grey shale with ironstone nodules.</i>	8	9	340	7
<i>Strong grey sandy shale.</i>	12	3	353	
<i>Strong sandy shale.</i>	1	3	354	3
<i>Hard grey rock.</i>	2	5	356	8
<i>Strong sandy shale.</i>	1	6	358	2
<i>Hard grey rock.</i>	2	10	359	
<i>Strong sandy shale.</i>	1	6	361	
<i>Hard grey rock.</i>	1	6	362	6
<i>Strong grey shales (partially).</i>	8		370	6
<i>Broken grey shale with ironstone nodules.</i>	5		375	6
<i>Grey shale with ironstone nodules.</i>	7	6	383	
<i>Grey shale.</i>	1	11	383	11
<i>Very broken grey shale.</i>	1	7	385	6
<i>Black parting.</i>	2	2	385	8
<i>Coal.</i>	2	10	388	6
<i>Very soft grey fireclay.</i>	1	11	389	5
<i>Strong grey fireclay.</i>	1	8	391	1
<i>Dark grey fireclay.</i>	1	6	391	7
<i>Strong grey fireclay with ironstone nodules.</i>	1	7	392	2
<i>Strong grey fireclay.</i>	1	4	392	6
<i>Strong sandy shale.</i>	8		393	
<i>Strong sandy shale.</i>	8		401	



SS 88 NW 18
Name and Number of Shaft or Bore given by Geological Survey:
Underground B.H.P. No 7 West, Pauline, S. 1236
Abercrombie Colliery (Bardonia Ltd.)

County, Shropshire
6" Quarter Sheet 34 S.W. 4

GEOLOGICAL CLASSIFICATION	DESCRIPTION SS88NW18	THICKNESS		Cumulative Thickness	Depth
	Hard gray rock	11	-		
	Gray shaly "	3	10	14	10
	Very hard broken gray rock	9	2	24	-
	Hard gray rock	51	-	75	-
	" " " Broken	36	3	111	3
	Shaly rock	1	8	112	11
	Soft dark gray shale	2	2	115	-
	Shaly rock	1	2	116	3
	Broken gray rock, hard	27	9	144	-
	Gray rock w. coal markings + shale bands	5	6	149	6
	Hard gray rock	11	6	161	-
	" " " very broken	3	-	164	-
	Gray rock w. coal veins	1	8	165	8
	Strong gray fireclay	1	9	167	5
	" " " shale	2	7	177	-
	COAL		4	178	4
	Dark gray fireclay		4	177	8
	Strong " "		9	178	5
	Gray shaly rock	5	3	183	-
	Dark gray shale	4	7	187	3
	Rotten " " w. ironstone nodules	2	9	19	-
	Hard shaly rock	2	4	193	4
	Gray sandy shale	3	8	197	-
	Dark gray " "	20	9	217	9
	COAL		1	219	5
	Dark gray fireclay		1	220	8
	Hard gray shaly fireclay with ironstone nodules		2	223	2
	Hard gray shaly rock	9	4	232	6
	Gray shale	2	-	234	6
	Sandy shale w. ironstone nodules	1	-	235	6
	" " " coal markings	1	3	236	9
	Rotten shaly fireclay	2	11	239	8
	" " " "		10	240	6
	Gray fireclay w. ironstone nodules	2	-	242	6
	Strong gray shale	12	6	255	-
	Black shale + coal		3	255	3
	" " " ironstone	3	6	258	9
	Strong gray shale	20	3	279	-
	Gray shale w. ironstone nodules	2	7	281	7
	Dark " " " "	3	1	284	8
	Gray shale	9	4	294	-
	Dark " " w. ironstone bands	10	-	304	-
	Dark gray shale	5	-	309	-
	Gray shale	4	-	313	-
	" " " w. ironstone nodules	27	9	340	9
	Strong sandy shale	13	6	353	3
	Hard broken gray rock	1	5	356	8
	Strong sandy shale	1	6	358	2
	Gray rock		10	359	-
	Strong sandy shale	2	-	361	-
	Gray rock	1	6	362	6



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

Nº 7 West, Pointe St. Jean (cont.) SS 88 NW 18

County
6" Quarter Section 24

GEOLOGICAL
CLASSIFICATION

DESCRIPTION

THICKNESS

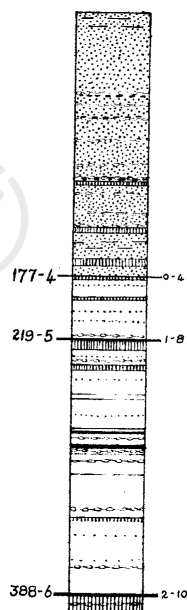
Bl. sand.				
Strong sandy shale	5	6	365	-
" gray "	2	6	370	6
Broken " " w. ironstone bands	5	-	375	6
Strong " " " "	7	6	383	-
Dark " " " " medium		11	383	11
Very broken dark gray shale	1	9	385	8
COAL	2	10	388	6
Hard gray fine clay	3	8	392	2
Gray fine clay w. ironstone nodules		4	392	6
Strong gray fine clay		6	393	-
" sandy shale	8	-	401	-

Sample by François Gauthier G.
Information collected from F.G.G.,
June, 1941



SS88NW18
8377.8606
ABERBAIDEN COLLIERY D

No. 7 IN No. 7 WEST PENTRE SLANT

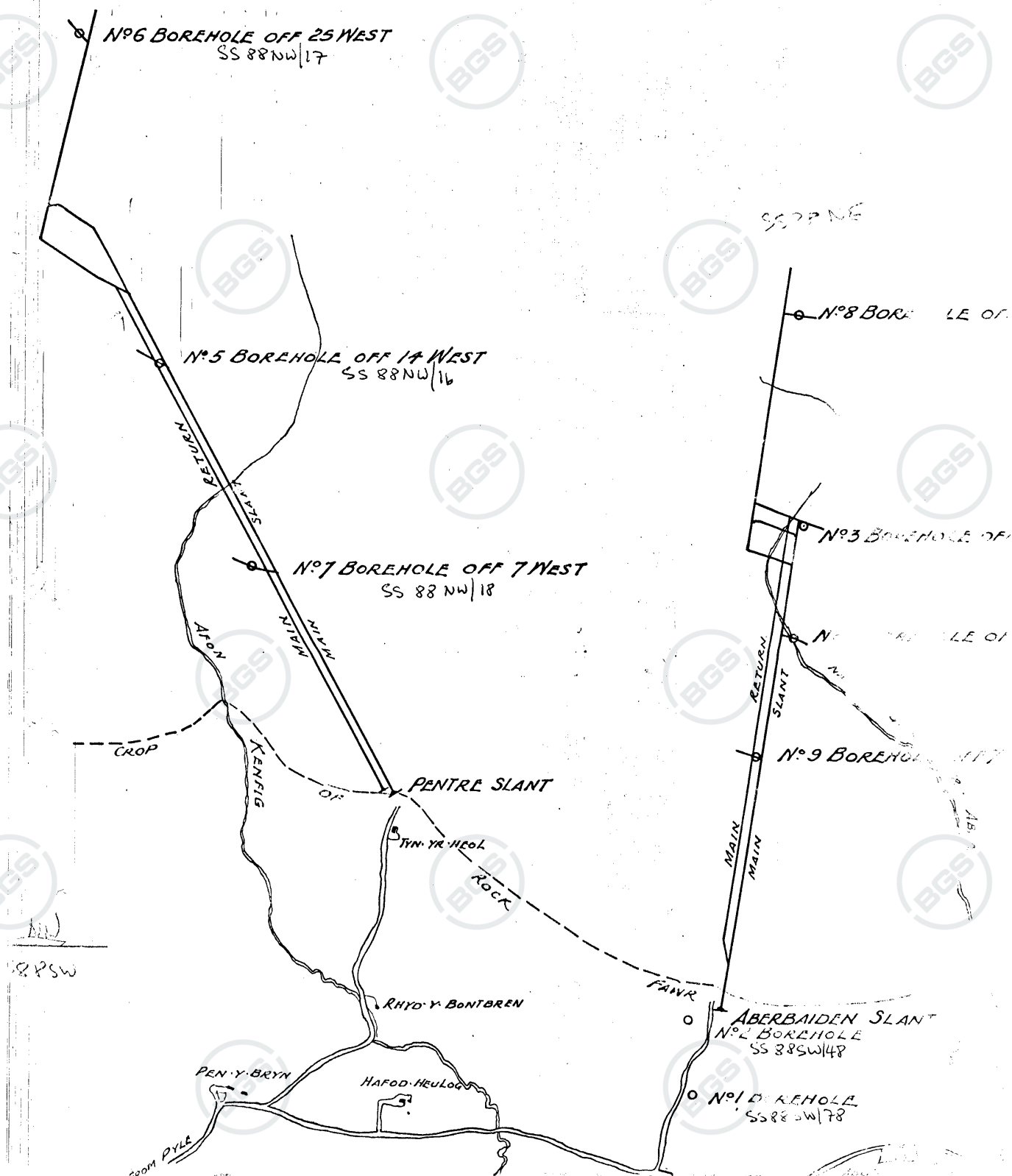


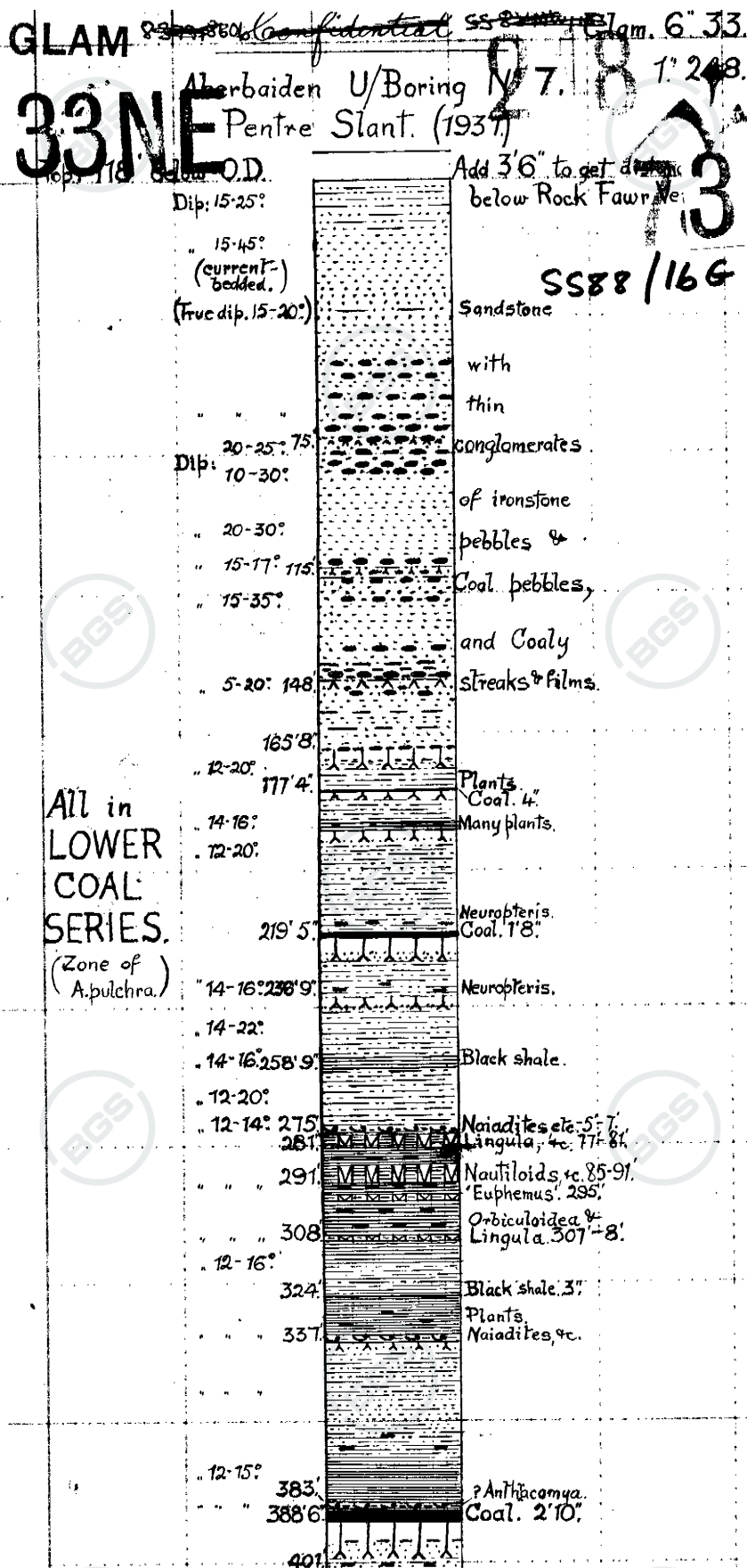


SS 88 NW/16-18

BALDWINS LTD - ABERBAIDEN

PLAN SHEWING POSITIONS OF BOREHOLES.





GEOLOGICAL SURVEY AND MUSEUM.

BOREHOLES AND SHAFTS.

SS 88 NW 18
8377 2806

33 2/3

County Glam.
6-in. Map 133 NE

Underground
BORE or SHAFT

N^o 7 in N^o 7 West
Pentre 'llant Aberlaiden Colliery
(See plan for site)

GSM 7000/28

Top of Bone: 118' Below
Surface level

One-inch Map

248. SS 88/166

Communicated 27.1.37 to 1.4.37. by Messrs Baldwin's, Ltd.

Date of sinking 31.10.36 to 22.1.37 Borer Francois Benetation Co. Ltd. (J. Godwin i/c)

Specimens Bc. 1222-1272. Dip of seam 12 in. p. yard .. Section drawn

Notes by A.J.	Description.	THICKNESS.		DEPTH.	
		Inches.	Feet.	Inches.	
Core in 84 ft. or 118' - 118'	Top of Bone is c. 3' 6" below Rock Fair Seam				
Diagrams of 1st & 2nd to 118'.	20 add 3' 6" (fireclay) to get distance below Rock Fair Seam				
2-5: Grey silty sandy shale with	Grey shaly rock	4	10	14	10
10-15: Hard light grey to grey shale	Hard grey rock	60	10	75	8
15-20: Dark grey shale	Dark grey shale	2	3	75	11
20-25: Hard grey sandstone	Hard grey rock	2	9	78	8
25-30: Grey silty shale with coal markings	Grey rock with coal markings	18	16	80	2
30-35: Grey silty shale with coal markings	Grey rock	12	10	90	3
35-40: Grey silty shale with coal markings	Shaly rock	1	3	111	11
40-45: Grey silty shale with coal markings	Shaly rock	2	8	112	1
45-50: Grey silty shale with coal markings	Shaly rock	1	2	115	3
50-55: Grey silty shale with coal markings	Shaly rock	3	2	116	
55-60: Grey silty shale with coal markings	Grey rock	3	9	120	
60-65: Hard grey rock	Hard grey rock	24		144	
65-70: Grey rock with coal markings	Grey rock with coal markings	4	6	148	6
70-75: Shaly beds	Shaly beds	1	10	149	6
75-80: Grey rock	Grey rock	14	4	164	4
80-85: Grey rock	Grey rock	1	3	165	8
85-90: Grey rock	Grey rock	1	3	165	11
90-95: Grey rock	Grey rock	1	5 1/2	168	11 1/2
95-100: Grey rock	Grey rock	9	7	167	5
100-105: Grey rock	Grey rock	9	4	177	4
105-110: Grey rock	Grey rock	4	4	177	8
110-115: Grey rock	Grey rock	5	9	178	5
115-120: Grey rock	Grey rock	3	3	183	8
120-125: Grey rock	Grey rock	3	1	186	9
125-130: Grey rock	Grey rock	4	3	191	4
130-135: Grey rock	Grey rock	2	4	193	
135-140: Grey rock	Grey rock	3	8	197	
140-145: Grey rock	Grey rock	20	9	217	9
145-150: Grey rock	Grey rock	1	8	219	5
150-155: Grey rock	Grey rock	1	3	220	8
155-160: Grey rock	Grey rock	2	6	223	2
160-165: Grey rock	Grey rock	2	10	226	
165-170: Grey rock	Grey rock	8	9	234	9
170-175: Grey rock	Grey rock	1	9	235	6
175-180: Grey rock	Grey rock	1	3	236	9

GEOLOGICAL SURVEY AND MUSEUM. BOREHOLES AND SHAFTS.

No. 7. UPBH. Pentre Slant,
Aberbaiden Colliery (cont)

County Glam.
6 in. Map

Description.	THICKNESS.		DEPTH.	
	Feet.	Inches.	Feet.	Inches.
22' Strong grey shale	3	9	236	9
14' 16' Black shale with ironstone	14	6	240	9
13' 30' Strong grey shale	3	3	255	3
12' 18' Grey shale with ironstone nodules	3	6	258	9
" "	16	3	275	7
" "	6	7	281	7
" "	3	1	284	8
" "	9	4	294	
" "	5		299	
" "	10		309	
" "	10		319	
" "	13		332	
" "	8	9	340	9
" "	12	3	353	
" "	1	3	354	3
" "	2	5	356	8
" "	1	6	358	2
" "	2	10	359	
" "	1	6	361	6
" "	8		362	6
" "	5		370	6
" "	7	6	375	6
" "	1	11	383	11
" "	1	7	383	6
" "	2	2	385	8
" "	2	10	388	6
" "	1	11	389	5
" "	1	8	391	1
" "	1	6	391	7
" "	1	7	392	2
" "	1	4	392	6
" "	1	6	393	
" "	8		401	



(*11932) Wt.30370/0370 10,000 9/39 A.&E.W.Ltd. Gp.685

1' 248

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

Underground B.H.P. 157 WEIS, Pen-1935-1, 1236

Abercrombie Colliery (1822) (L.L.C.)

County: Shropshire
6" square shaft

248
79

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		DEPTH
		SS88/16	79	
	Hard gray rock	11	-	-
	Gray shaly	3	10	14 10
	Very hard broken gray rock	9	2	24 -
	Hard gray rock	51	-	75 -
	" " " broken	36	3	111 3
	Shaly rock	1	2	112 11
	Soft dark gray shale	2	2	115 1
	Shaly rock	1	2	116 3
	Broken gray rock, hard	27	9	144 -
	Gray rock w. coal markings + shale bands	5	6	149 6
	Hard gray rock	11	6	161 -
	" " " very broken	3	-	164 -
	Gray rock w. coal veins	1	8	165 8
	Strong gray giney	1	9	167 5
	" " shale	9	7	177 -
	COAL	4	-	177 4
	Dark gray giney	4	-	177 8
	Strong " "	9	-	178 5
	Gray shaly rock	5	3	183 6
	Dark gray shale	4	7	188 3
	Broken " " w. ironstone nodules	2	9	191 -
	Hard shaly rock	2	4	193 4
	Gray sandy shale	3	8	197 -
	Dark gray	20	9	217 9
	COAL	1	8	219 5
	Dark gray giney	1	3	220 8
	Hard gray shaly giney with ironstone nodules	2	6	223 2
	Hard gray shaly rock	9	4	232 6
	Gray shale	2	-	234 6
	Sandy shale w. ironstone nodules	1	-	235 6
	" " " coal markings	1	3	236 9
	Broken shaly giney	2	11	239 8
	" " "	10	-	249 6
	Gray giney w. ironstone nodules	2	-	242 6
	Strong gray shale	12	6	255 -
	Black shale + coal	3	-	255 3
	" " " ironstone	3	6	258 9
	Strong gray shale	20	3	279 -
	Gray shale w. ironstone nodules	2	7	281 7
	Dark " " " "	3	1	284 8
	Gray shale	9	4	294 -
	Dark " " w. ironstone bands	10	-	304 -
	Dark gray shale	5	-	309 -
	Gray shale	4	-	313 -
	" " " w. ironstone nodules	27	9	340 9
	Strong sandy shale	13	6	354 3
	Hard broken gray rock	1	5	356 6
	Strong sandy shale	1	6	358 2
	Gray rock	10	-	369 -
	Strong sandy shale	2	-	381 -
	Gray rock	1	6	382 6

$\frac{2}{1}$

(*11932) Wt.30370/0370 10,000 9/39 A.& E.W.Ltd. Gp.685

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

' No 7 West, P.S. DIST. 19 (36 m.c.)

1248



6" Dia

73

GEOLOGICAL CLASSIFICATION	DESCRIPTION	THICKNESS		73
	Bl. Ford			
	Strong sandy shale	5	6	368 -
	" gray "	2	6	370 6
	Broken " " w. ironstone bands	5	-	375 6
	Strong " " " "	7	6	383 -
	Dark " " " " nodules		11	383 11
	Very broken dark gray shale	1	9	385 8
	COAL	2	10	388 6
	Hard gray fine clay	3	8	392 2
	Gray fine clay w. ironstone nodules		4	392 6
	Strong gray fine clay		6	393 -
	" sandy shale	5	-	401 -
Smelt by Francois Conditin Co. Information collected from F.C. Co. June, 1941				

372652

715

SS88NW18

291/166

COPI

THE FRANCOIS CEMENTATION COMPANY LIMITED,

BENTLEY WORKS, DONCASTER.

No: 5528

CORE BOXES NOS 1 to 36.

ABERNATHY 7 WEST BOREHOLE.

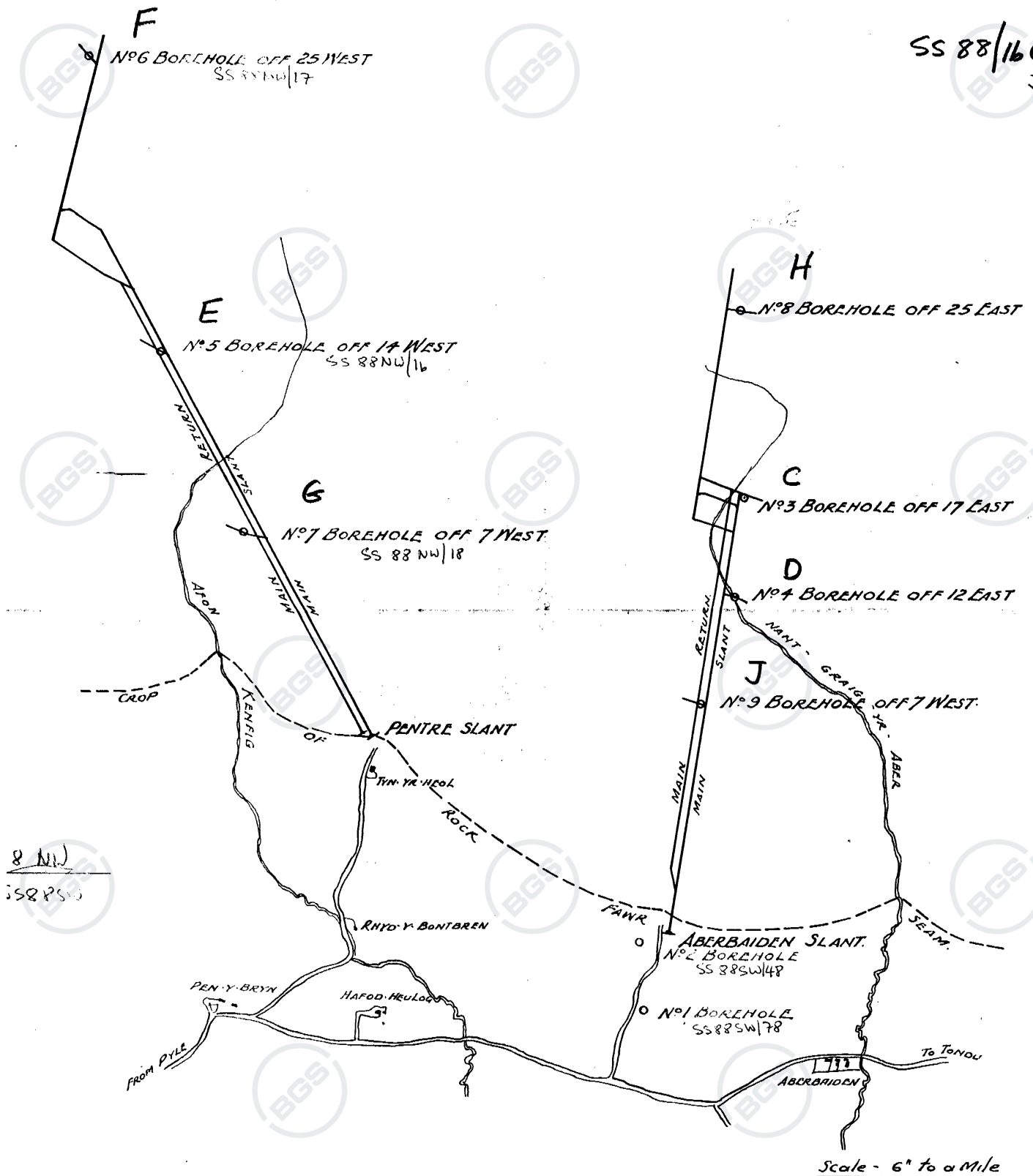
Box No:	Depth	Box No:	Depth
1	1 ft 6 ins to 4 feet.	19	82 feet 8 ins to 87 ft 4 ins.
2	4 feet to 8 ft 6 ins.	20	87 " 4 ins to 92 feet.
3	8 " 6 ins to 13 feet.	21	92 " to 96 feet 7 ins.
4	13 " to 17 ft 3 ins.	22	96 " 7 ins to 101 ft 2 ins.
5	17 " 3 ins to 21 ft 9 ins.	23	101 " 2 ins to 105 ft 9 ins.
6	21 " 9 ins to 25 feet.	24	105 " 9 ins to 110 ft 4 ins.
7	25 " to 30 feet 6 ins.	25	110 " 4 ins to 114 ft 11 ins.
8	30 " 6 ins to 35 feet.	26	114 " 11 ins to 119 ft 6 ins.
9	35 " to 40 feet.	27	119 " 6 ins to 124 ft 1 ins.
10	40 " to 45 feet.	28	124 " 1 in. to 128 ft 8 ins.
11	45 " to 50 feet.	29	128 " 8 ins to 133 ft 3 ins.
12	50 " to 54 feet 8 ins.	30	133 " 3 ins to 137 ft 3 ins.
13	54 " 8 ins to 59 ft 4 ins.	31	137 " 3 ins to 141 ft 3 ins.
14	59 " 4 ins to 64 feet.	32	141 " 3 ins to 145 ft 6 ins.
15	64 " to 68 feet 8 ins.	33	145 " 6 ins to 150 feet.
16	68 " 8 ins to 73 feet 4 ins.	34	150 " to 154 feet 6 ins.
17	73 " 4 ins to 78 feet.	35	154 " 6 ins to 159 feet.
18	78 " to 82 feet 8 ins.	36	159 " to 163 feet 6 ins.

SS88/16G

BALDWIN'S LTD - ABERBAIDEN COLLIERY.

PLAN SHEWING POSITIONS OF BOREHOLES.

SS88/16C-
J



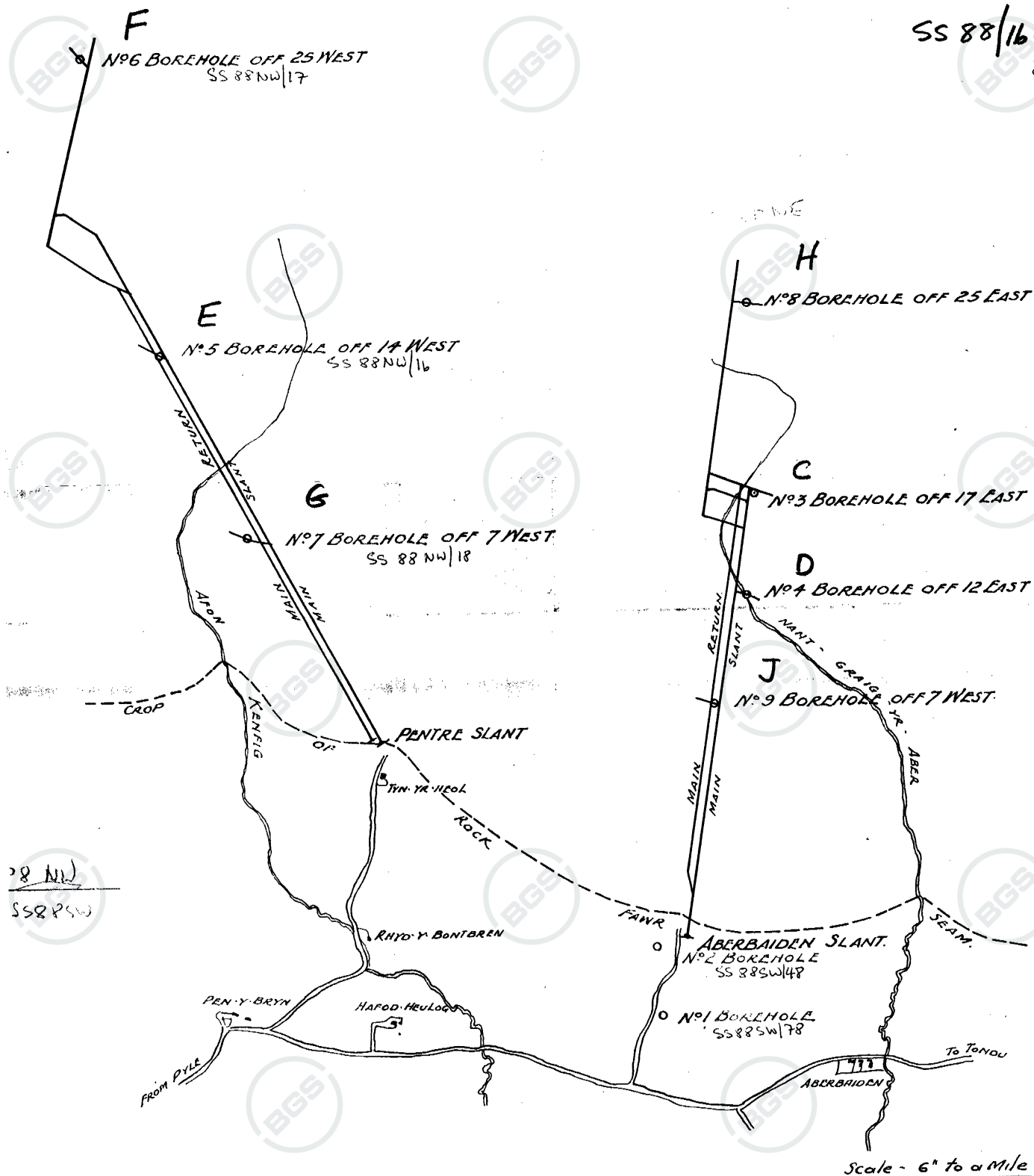


SS 88 / 16 H

BALDWINS LTD - ABERBAIDEN COLLIERY.

PLAN SHEWING POSITIONS OF BOREHOLES.

SS 88 / 16 C -
J

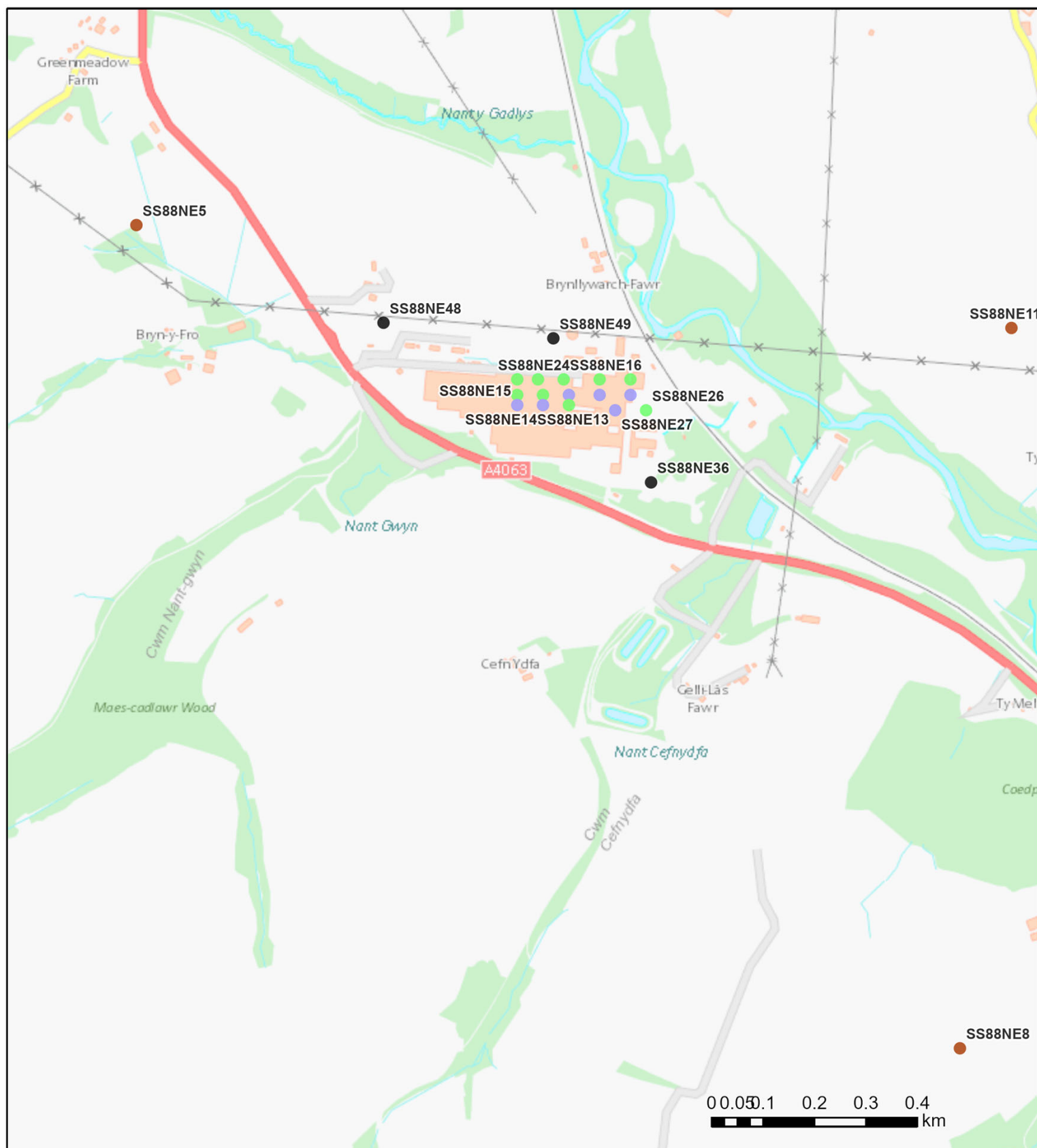




GeoIndex Report



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GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey

Map Key

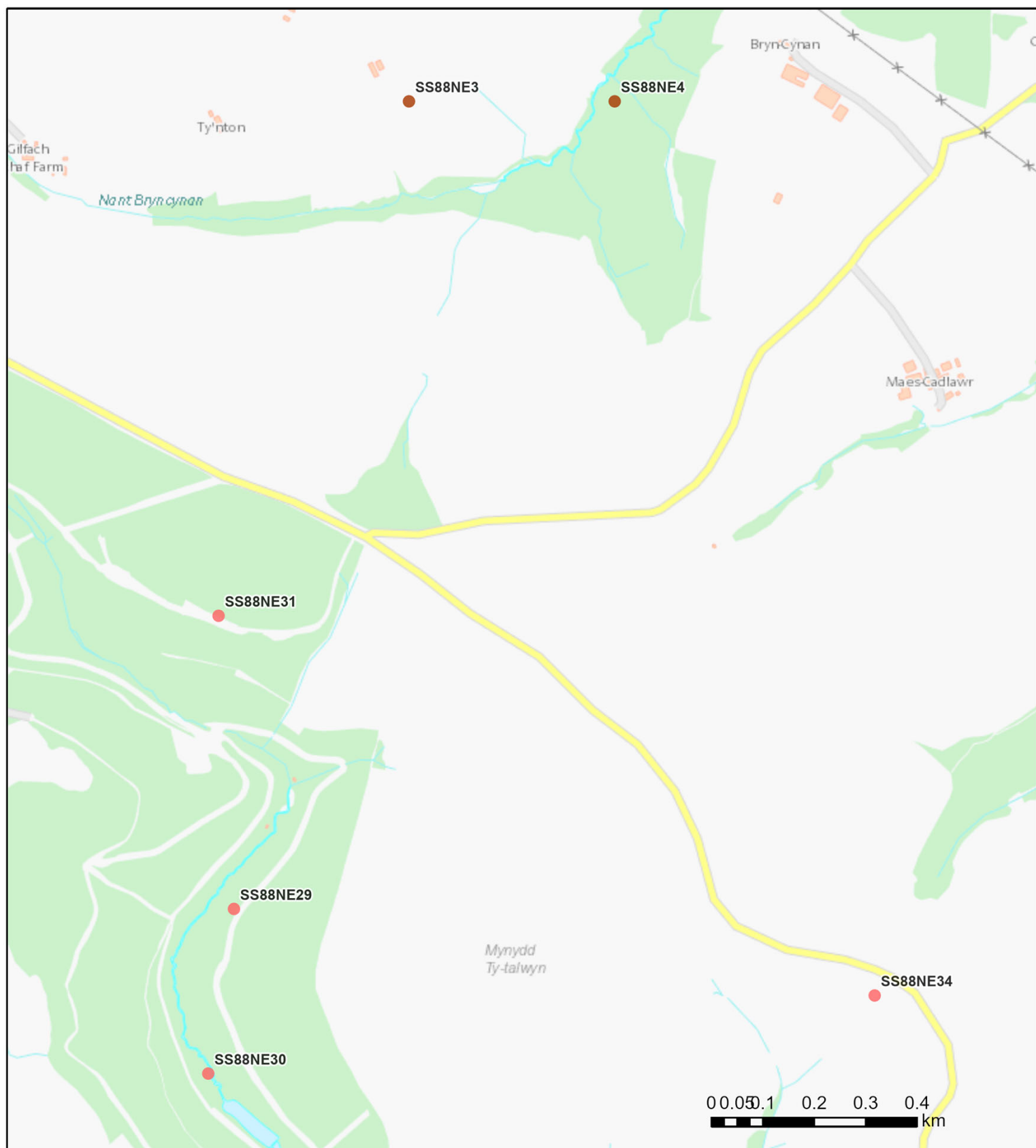
Borehole records

-  Unknown Length
-  Confidential
-  0 - 10m
-  10 - 30m
-  30m+

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Map Key

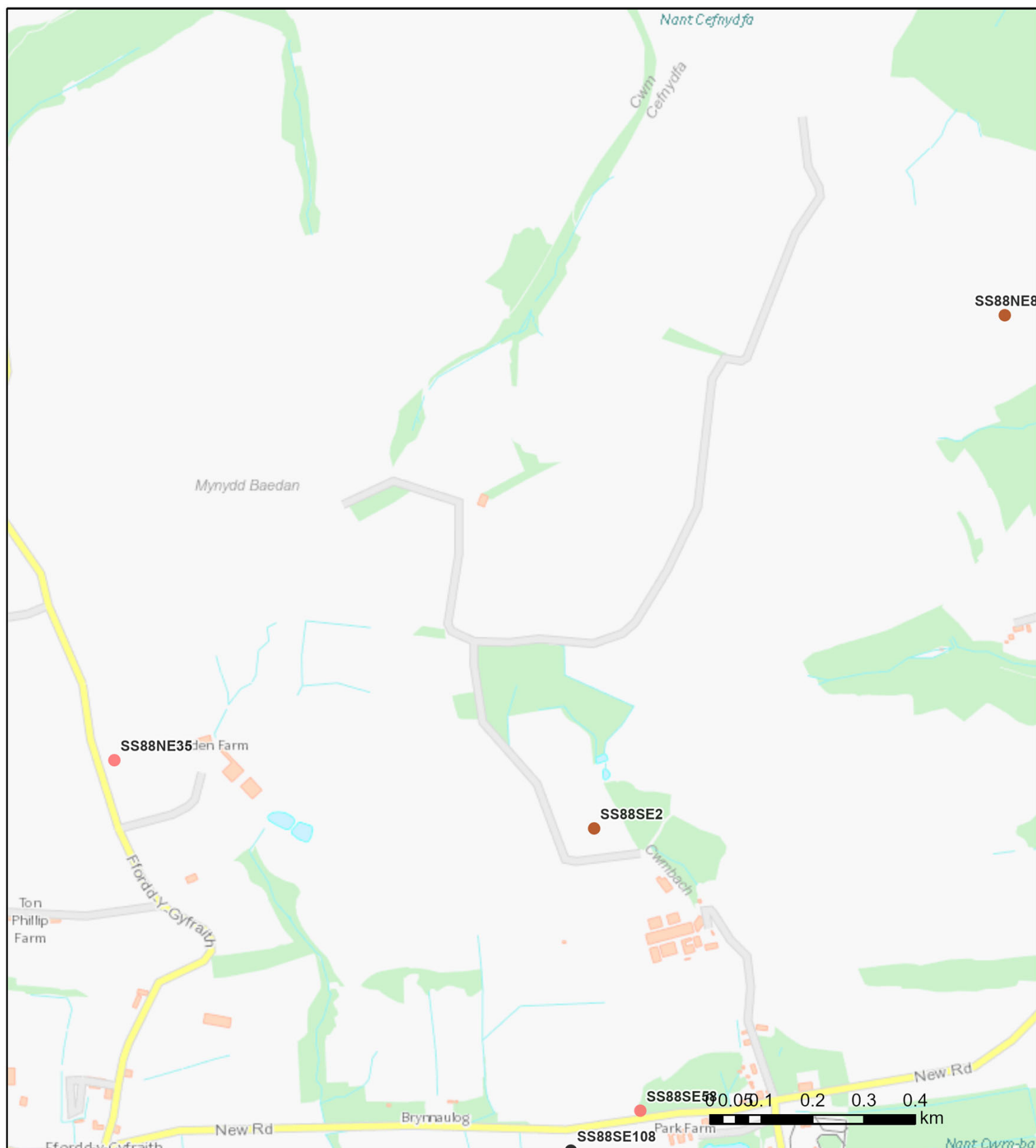
Borehole records

-  Unknown Length
-  Confidential
-  0 - 10m
-  10 - 30m
-  30m+

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Map Key

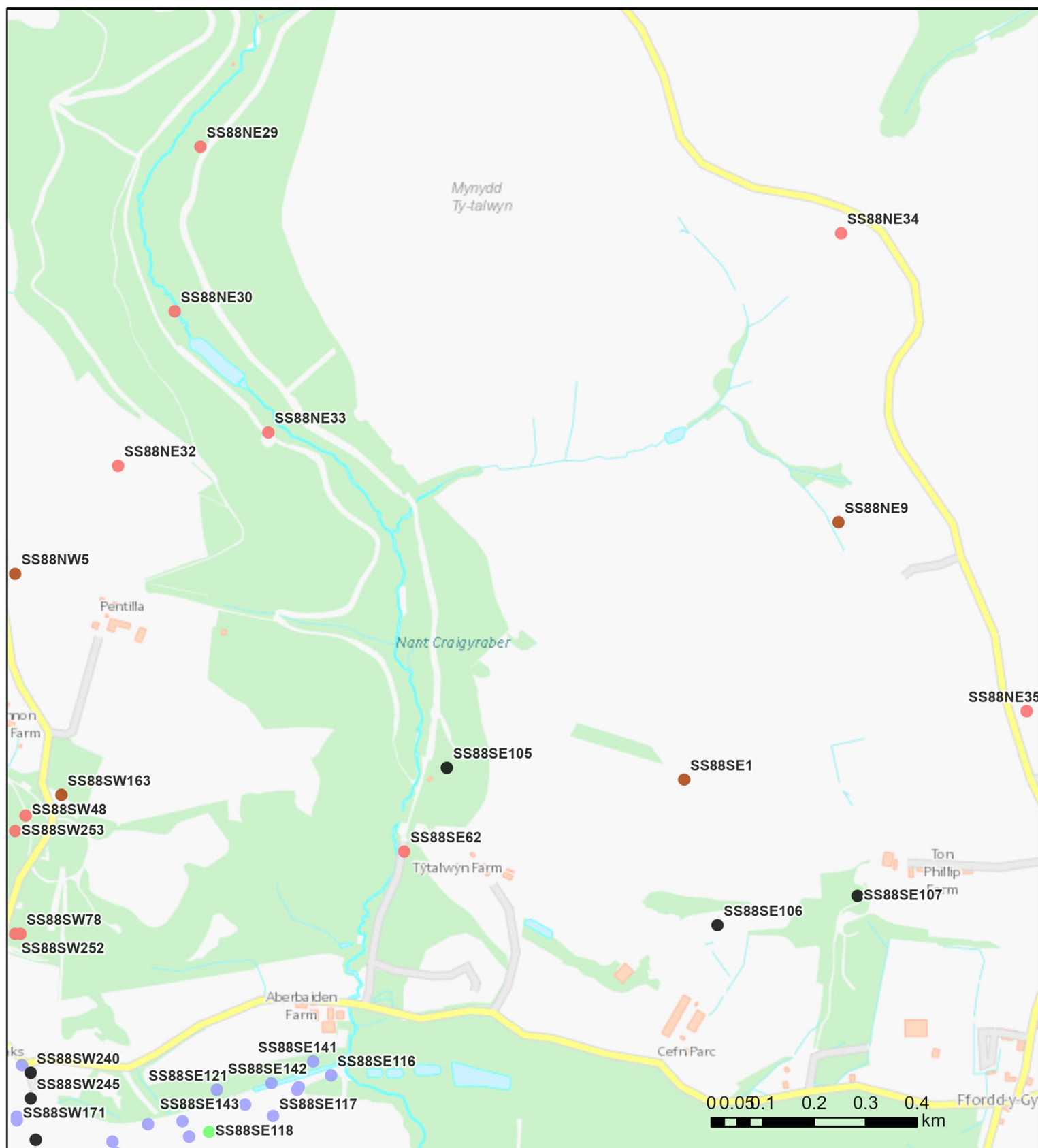
Borehole records

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-  10 - 30m
-  30m+

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