

- 1278'11" - 1279'10" Conglomerate with fragments rather finer than below.
British Geological Survey Two quarter inch bands of dark silty material half inch apart at 1279 4'. Very uneven top.
- 1279'10" - 1280'11" Conglomerate with fragments up to 1" across and angular pods of quartz, some finer grained bands dipping at 10°. Scattered larger fragments.
- 1280'11" - 1281'1 $\frac{1}{2}$ " Conglomerate with fragments up to 1" across and angular pods of quartz in matrix of light grey clay possibly incorporated shale. Base of Carboniferous sequence at 1281'1 $\frac{1}{2}$ ".

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1281¹ 12¹ - 2649¹ 3¹WEARDALE GRANITE1281¹ 12¹ - 1291¹ 6¹

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Pale grey-green mottled white quartz-microcline-albite-muscovite-granite with foliation dipping at 3°. Upper 5' has darker green groundmass than rest. At 1285' and 1289' crush zones, dip 15°.

1291¹ 6¹ - 1291¹ 9¹ Pegmatite without mica.1291¹ 9¹ - 1299¹ 3¹ Dark foliated granite.1299¹ 3¹ - 1299¹ 5¹ Pegmatite dip 30° thin dark parting in centre.1299¹ 5¹ - 1299¹ 8¹ Granite.1299¹ 8¹ - 1299¹ 9¹ Pegmatite with quartz centre.1299¹ 9¹ - 1306¹ 10¹ Granite, foliation dip 15°.1306¹ 10¹ - 1307¹ 3¹ Pegmatite dip 15° oblique to foliation which cuts it.

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1307¹ 3¹ - 1309¹ 8¹ Granite.1309¹ 8¹ - 1309¹ 10¹ Pegmatite, flat.1309¹ 10¹ - 1310¹ 6¹ Granite.1310¹ 6¹ - 1312¹ Pegmatite. Top dips 5°, feldspars up to 2", some augen-like.

1312¹ - 1325¹ 5¹ Granite; at 1317¹ 4¹ impersistent stringer of galena up to 1" thick; at 1325¹ 5¹ quartz, tourmaline, feldspar, vein dip 45°. Joints at 1347¹ (45°), 1349¹ (60°), 1321¹ 6¹ (45°).

1325¹ 5¹ - 1331¹ Granite with three thin pegmatites, dip 5°.

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1331¹ - 1336¹ Thin fluorite vein, in unaltered granite.1336¹ - 1339¹ 9¹ Granite.1339¹ 9¹ - 1340¹ Pegmatite, quartz, feldspar, dip 20°.1340¹ - 1345¹ 2¹ Granite, with occasional vertical and oblique strings of small cavities.1345¹ 2¹ - 1345¹ 8¹ Aplite, nearly flat.1345¹ 8¹ - 1346¹ 6¹ Pegmatite, cut by siderite veinlets dip 75°.1346¹ 6¹ - 1348¹ 3¹ Granite.1348¹ 3¹ - 1349¹ 9¹ Pegmatite.

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1349¹ 9¹ - 1360¹ Quartz-pyrrhotite-pyrite-marcasite vein with calcite, ankerite, fluorite, quartz, and traces of galena. Adjacent granite altered.

1360¹ - 1361¹ Granite.1361¹ - 1366¹ Altered and darker granite with 1 $\frac{1}{2}$ vein of quartz, fluorite, pyrrhotite, pyrite, reddened with hematite at margin.1366¹ - 1374¹ 10¹ Granite with thin red veinlets and $\frac{1}{2}$ pyrite veinlet at 1374¹ 4¹. Joints at 1368¹ 6¹ (50°) and 1371¹ (45°).1374¹ 10¹ - 1376¹ Irregular pegmatite.

1376'	- 1378'	Granite.	
British Geological Survey	1378'	- 1378' 6"	Aplitic. British Geological Survey
	1378' 6"	- 1379'	Granite.
	1379'	- 1381' 2"	Granite.
	1381' 2"	- 1383' 2"	Aplitic with pegmatite margins.
	1383' 2"	- 1385'	Granite, foliation dip 10-15°.
	1385'	- 1385' 3"	Pegmatite.
	1385' 3"	- 1389' 6"	Granite.
	1389' 6"	- 1389' 7½"	Pegmatite, dip 20°.
British Geological Survey	1389' 7½"	- 1393' 6"	Slightly darker granite.
	1393' 6"	- 1394'	Augen of feldspar in granite.
	1394	- 1399'	Granite, a few crystals of chalcopyrite. Joint at 1397' (60°).
	1399'	- 1399' 3"	Quartz band, dip 40°.
	1399' 3"	- 1409'	Granite, many joints dip 80°.
	1409' 3"	- 1410'	Granite.
	1410'	- 1411' 5"	Pegmatite.
	1411' 5"	- 1412'	Granite.
	1412'	- 1412' 6"	Pegmatite, flat.
British Geological Survey	1412' 6"	- 1417' 6"	Granite.
	1417' 6"	- 1418' 6"	Coarse pegmatite vein with mica $\frac{3}{4}$ " across, little pyrite.
	1418' 6"	- 1422'	Granite; at 1422' crush (45°).
	1422	- 1430'	Granite cut by steep quartz vein $2\frac{1}{2}$ " thick.
	1430	- 1436'	Granite.
	1436	- 1437'	Pegmatite, irregular.
	1437	- 1440' 4"	Granite.
	1440' 4"	- 1443' 10"	Coarse pegmatite with mica.
British Geological Survey	1443' 10"	- 1453'	Aplitic, veneer of galena on joint at 1446' (62' rock bit drilling).
	1453	- 1457'	Pegmatite.
	1457	- 1459'	Granite; at 1459' molybdenite crystals in granite.
	1459'	- 1460' 6"	Granite; at 1460' 6" pegmatite veinlet, dip 70°.
	1460' 6"	- 1480	Granite, foliation dip 20°.
	1480	- 1482' 6"	Pale green altered granite with $1\frac{1}{2}$ " quartz-purple fluorite veinlet.

1482'6"	- 1509'	Granite, joints at 1485' (50°); at 1509' veinlet with tourmaline (45°).
British Geological Survey		British Geological Survey
1509	- 1512'4"	Granite.
British Geological Survey		British Geological Survey
1512'4"	- 1514'7"	Aplite, dip 45°-50°.
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1514'7"	- 1524'8"	Granite with traces of calcite, fluorite, chalcopyrite. 1524'8" veinlet of deep purple fluorite.
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1524'8"	- 1527'11"	Granite.
British Geological Survey		British Geological Survey
1527'11"	- 1530'7"	Aplite with pale purple fluorite veinlet (bottom 11" rock bit drilling).
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1530'7"	- 1531'3"	Granite.
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1531'3"	- 1532'10"	Aplite. Dip 10° at top, 40° at bottom.
British Geological Survey		British Geological Survey
1532'10"	- 1535'1"	Aplite, enclosing granite band, dip 20°.
British Geological Survey		British Geological Survey
1535'1"	- 1536'5"	Granite.
British Geological Survey		British Geological Survey
1536'5"	- 1547'2"	Aplite with some large feldspars, dip of base 70° to 80°.
British Geological Survey		British Geological Survey
1547'2"	- 1558'2"	Granite, foliation dip 15-20°.
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1558'2"	- 1568'5"	Pale green granite with thin veinlets up to 1", dip 60-70°, containing green fluorite with pyrite, pyrrhotite and quartz.
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1568'5"	- 1575'	Granite.
British Geological Survey		British Geological Survey
1575	- 1577'6"	Granite, dark purple fluorite coating on joint.
British Geological Survey		British Geological Survey
1577'6"	- 1577'9"	Pegmatite.
British Geological Survey		British Geological Survey
1577'9"	- 1579'6"	Granite.
British Geological Survey		British Geological Survey
1579'6"	- 1582'	Irregular pegmatite.
British Geological Survey		British Geological Survey
1582'	- 1585'4"	Granite.
British Geological Survey		British Geological Survey
1585'4"	- 1643'9"	Granite, pale and altered, $\frac{1}{2}$ veinlets with quartz, green fluorite, traces of galena. (Rock bit drilling 39 1").
British Geological Survey		British Geological Survey
1643'9"	- 1651'8"	Pale altered granite with strong complex development of veinlets of redbrown quartz, fluorite, pyrite, calcite.
British Geological Survey		British Geological Survey
1651'8"	- 1653'4"	Granite.
British Geological Survey		British Geological Survey
1653'4"	- 1672'9"	Granite, altered, becoming darker; cut by occasional redbrown quartz veinlets dip 50-70° and some flat; up to $3\frac{1}{2}$ " thick but usually less than $1\frac{1}{2}$ ". Below 1655' a veinlet with pale green fluorite, quartz and stringers of galena.
British Geological Survey		British Geological Survey
1672'9"	- 1675'8"	Granite. Foliation, dip 15°.
British Geological Survey		British Geological Survey
1675'8"	- 1708'6"	Pale granite, veined by quartz and subsidiary purple and green fluorite, some pyrite and chalcopyrite, little epidote. (13'8" rock bit drilling from 1680'7").
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1708'6"	- 1746'2"	Pale granite with occasional thin quartz veinlets, one 10" wide at 1736'2". Thin quartz veinlets with fluorite, pyrite, pyrrhotite.
1746'2"	- 1815'8"	Granite, much broken up, with patches of chlorite and some tourmaline at 1769' (33" rock bit drilling).
1815'8"	- 1820'	Granite.
1820'	- 1825'	Granite with 5" aplite band, dip 65°.
1825'	- 1871'	Granite with tendency to break into thin horizontal layers owing to jointing. (Rock bit drilling 24'1").
1871'	- 1872'	Aplite, dip 70-80°.
1872'	- 1891'	Granite, with horizontal joints. (Rock bit drilling 4'11").
1891'	- 1903'2"	Granite, traces of ore minerals at 1895'-1898'6". Joints at 1901'-1902' (45°).
1903'2"	- 1933'	Aplite, micaceous, dip at top 70-80°. (Rock bit drilling 13'1").
1933'	- 1944'3"	Granite, some horizontal joints.
1944'3"	- 1954'	Aplite.
1954'	- 1978'	Granite, foliation dip 30°.
1978'	- 1978 1/2'	Pegmatite, irregular.
1978 1/2'	- 1980'	Veinlets with quartz, siderite, sulphides, dip 60-80°.
1980'	- 1984'	Granite, small veinlets.
1984'	- 1986'8"	Quartz vein 1 1/2" in granite.
1986'8"	- 1999'9"	Granite, with horizontal joints, 1" to 2" apart. Quartz-pyrite vein at 1996'10".
1999'9"	- 2004'	Granite, at 2001' joint (30°). Quartz-pyrite vein at 2002'5", 3" thick.
2004'	- 2004'2"	Pegmatite.
2004'2"	- 2005'8"	Granite with vertical fractures.
2005'8"	- 2016'2"	Granite; joints at 2008' (50°), 2011' (45°), 2013' (50°), foliation dip 15°.
2016'2"	- 2016'7"	Pegmatite with thick muscovite wads.
2016'7"	- 2032'7"	Somewhat darker granite with a few pegmatite and aplite veinlets up to 1 1/2"; foliation dip 30°. Joints at 2018'1/2" (50°), 2021' (30°), 2028' (80°).
2032'7"	- 2038'6"	Pale green granite beneath joint (45°) at 2032'9", grading down to normal granite. Joint 2033'6" (40°), 2036-7" (horizontal).
2038'6"	- 2039'3"	Pegmatite, coarse, with occasional thick muscovite plates and a dark mineral. Dip, top and base, 20°.

2039'3"	- 2039'11"	Granite.	
British Geological Survey	2039'11"	- 2041'2"	Pegmatite, similar to previous one, dip at top 10°, base 30°.
2041'2"	- 2061'1"	Granite, biotite becoming visible as additional constituent. Joints at 2048' (45°), 2050'6" (50°), 2052' (40°, slickensided down dip), 2054' (35-40°, brown coating), 2058' (45°), 2265'6" (45°).	
2061'1"	- 2067'8"	Aplite with pegmatitic top and bottom; base dip 45°.	
2067'8"	- 2094'1"	Darker granite with horizontal joints near top and base. Near vertical veinlets, 5/8". 2084'-2087'2" and 2089'2"-2090'10" of dark purple fluorite and hematite. Horizontal joints pass through veinlets.	
2094'1"	- 2109'11"	Granite broken up and altered, numerous low-dipping joints.	
British Geological Survey	2109'11"	- 2110'3"	Aplite with coarse feldspar at top, dip 5-10°.
2110'3"	- 2135'	Dark granite, solid, 2" quartz vein at 2113'10" (20°), at 2118'1" cavity with quartz, calcite, pyrite; 3" pegmatite at 2120'7", en echelon aplite veinlets 2130 -2135'.	
2135'	- 2138'8"	Granite with veinlet of deep purple fluorite, hematite, pyrite (70°).	
2138'8"	- 2150'	Granite, joints at 2143' (45°), 2148-9' (55°).	
2150'	- 2150'8"	Pegmatite, flat.	
2150'8"	- 2157'	Granite with biotite, foliation near horizontal.	
British Geological Survey	2157'	- 2180'	Dark granite, 2180' irregular pegmatite clot.
2180'	- 2185'	Granite.	
2185'	- 2185'2"	Pegmatite.	
2185'2"	- 2190'1"	Granite.	
2190'1"	- 2190'3"	Pegmatite.	
2190'3"	- 2200'	Granite, joints widely spaced, horizontal.	
2200'	- 2201'8"	Dark coarse granite, pegmatite clots at base with tourmaline.	
2201'8"	- 2209'10"	Dark granite.	
British Geological Survey	2209'10"	- 2234'6"	Granite slightly lighter, finer grained. Joints at 2210' (45°). Purple fluorite patch at 2222'7" with chalcopyrite.
2234'6"	- 2267'11"	Granite, with minor variations in colour and texture. Joints at 2257' (50°), 2259' (30°). Horizontal joints at 1-3 intervals.	
2267'11"	- 2269'9"	Coarse pegmatite, large pink feldspars, finely micaceous groundmass, thick micas. Cavities with quartz. Dip at top 5°, base 15°. Horizontal joints.	

2269'9"	- 2271'4"	Pale granite with some chlorite.	
British Geological Survey		British Geological Survey	British Geological Survey
2271'4"	- 2272'1"	Pegmatite.	
2272'1"	- 2278"	Pale granite with chlorite, joint with slickensides.	
2278"	- 2282'3"	Normal granite, junction with plae granite dips 40°.	
2282'3"	- 2282'8"	Pegmatite.	
2282'8"	- 2297'7"	Pale granite, somewhat altered.	
2297'7"	- 2320'9"	Granite, many horizontal joints; at 2300'5", tourmaline; at 2315' quartz-tourmaline vein (35°).	
2320'9"	- 2321'6"	Aplitic with tourmaline (35°)	
2321'6"	- 2333'11"	Granite; joints at 2323'6" (45°), 2331' (45°), 2332'3" (45°).	British Geological Survey
British Geological Survey		British Geological Survey	
2333'11"	- 2335'2"	Aplitic, with pegmatite margins, flat.	
2335'2"	- 2336'6"	Granite.	
2336'6"	- 2344'11"	Quartz vein with little fluorite in altered granite (60°).	
2344'11"	- 2396'1"	Normal biotite-bearing granite, rare aplitic and hematite veinlets. Many joints at 2345'-75' (45°); 2375'-2377'6" (horizontal), 2381'-2383' (45°, 60°).	
2396'1"	- 2470'6"	Paler granite, becoming darker. Pyrite at 2403'5". (Rock bit drilling 6'7"). Pegmatite veinlets rare.	
2470'6"	- 2572'6"	Biotite-bearing granite, some diagonal joints with traces of chloritic alteration. 2572'6" coarse biotite schist enclosed in granite. (Rock bit drilling 23').	British Geological Survey
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2572'6"	- 2599'	Biotite-bearing granite, numerous horizontal joints, foliation still apparent but less obvious than near top.	
2599'	- 2600'	Granite, pyrrhotite veneer on joint.	
2600'	- 2605'8"	Granite, horizontal joints. 2605'8" pegmatite, 3/4".	
2605'8"	- 2649'3"	Granite, with a few thin pegmatite and aplitic veinlets.	