



Heidelberg Materials

TYTHERINGTON QUARRY: 6 MILLION TONNES ADDITIONAL RESERVES

Environmental Statement: Appendix 9A Boreholelog Bristol
Avon River Authority Borehole Tytherington 1 From 1972





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TYPE OF DOCUMENT (VERSION) PUBLIC

PROJECT NO. 62282762

**OUR REF. NO. 6MT ES / APPENDIX 9A BOREHOLELOG BRISTOL AVON RIVER
AUTHORITY BOREHOLE TYTHERINGTON 1 FROM 1972**

DATE: MAY 2024

WSP

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Reference

ST 68NE/28

Dr. R.A. Old
Central & Sth Midlands Unit.

?Tuffs from Carboniferous Limestone. Tythefrington B.H., Glos.
NGR ST 6643 8823. 1" Sheet 251.

BDH 8263, Thin-section E 52787. Depth 47.55 m.

An argillaceous limestone pseudobreccia. Nodular masses of calcite microspar grade into a predominantly argillaceous matrix which is fragmental in part and contains discrete, rounded, microspar grains. Rounded and angular ?partly autochthonous, quartz grains < 0.35 mm are not uncommon.

BDH 8264. Thin-section E 52788. Depth 47.95 m.

A mottled claystone with irregular fracture and with roughly ovoid pale carbonate bodies. The latter are composed of calcite ($w = 1.658$) microspar and may measure several mm across. In the clay groundmass wisps and irregular areas of clay mica show aggregate polarization against a cryptocrystalline, ?kaolinitic, background. The rock is a dusky yellow green (near 5GY 5/2) mottled greyish red (5R 4/2).

Flecks of brown iron oxides ~ 0.02 mm across are dispersed throughout. Silt grade quartz in iron coated, rounded to angular grains is present.

BDH 8276. Thin-section E 52789. Depth 94.20 m.

A reddish brown (near 10R 3/4) calcite mudstone. This rock is composed of granular calcite ($w = 1.658$) stained with brown iron oxides. Silt grade quartz tending to show crystal outline and very rare flakes of muscovite are present. The larger calcite grains tend to exhibit rhombic sections.

None of these rocks contains an obvious pyrogenetic content.

R.W. Sanderson

R.W. Sanderson,
Petrology Unit,
1st May, 1979.



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RECORD OF SHAFT OR BOREHOLE

6-in or 1:10 000 Map Registration No.

Name and Number of Shaft or Borehole:

Tytherington No.1

National Grid Reference

6643.8823

For whom made Bristol Avon River Authority

Town or Village County

Exact site (reference to a fixed point on 1-in or 1:50 000 Map)

ST 6643 8823

1-in or 1:50 000
New Series Map No.

Enter 'C' if
Confidential

250

Purpose for which made WATER

Ground level at ^{shaft}_{bore} relative to O.D. m. If not ground level give O.D. of beginning of ^{shaft}_{bore} m.

Made by Date of sinking 1972

Information from Examined by R.A.Old

Specimen Numbers and Additional Notes

Geological Classification	Description of Strata	Thickness metres	Depth metres
	No Core	1.95	1.95
	Limestone, calcarenite, stained pinkish-red with streaked out shaly partings. Dip 15°	1.0	2.95
	Fault gouge, buff, clayey	0.03	2.98
	Limestone, as above but no shale	0.18	3.16
	Limestone, bioclastic, pinkish red	0.57	3.73
	Coral especially well developed for 15 cms below marked shaly bedding plane at 3.16m.		
	Limestone calcarenite, grey, massive. Rare corals	0.72	4.45
	Limestone, oolitic. Base is stylolitic.	0.08	4.53
	Limestone, calcarenite. Base is stylolitic with corals.	0.11	4.64
	Limestone, oolitic, pinkish grey. Stylolite	0.55	5.19
	at top is an important discordance as on one side of core is a wedge of buff limestone apparently faulted against oolite and abruptly cut off at stylolite.		

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward		
		0.55	5.19
	Fault breccia, red-brown with many calcite veins. Dip c 85°	3.16	8.35
	Limestone, calcarenite, grey, massive.	0.70	9.05
	Shale, calcareous, purplish-red.	0.05	9.10
	Limestone, grey, oolitic, massive.	1.97	11.07
	Numerous stylolites in top 0.25m		
	Limestone, calcarenite with some shell debris.	0.68	11.75
	Siltstone, calcareous, laminated, micaceous, buff. Dip 15°	0.01	11.76
	Limestone, shaly, passing down into	0.21	11.97
	Mudstone, pinkish-buff with lamellibranchs.	0.30	12.27
	steeply dipping contorted laminae (apparently no colour banding) as lamellibranchs are flat lying)		
	Limestone, oolitic, puddy above and below.	0.23	11.50
	Mudstone, shaly, mottled pale grey/red brown and much sheared.	0.55	13.05
	Sandstone, calcareous, medium-grained pinkish-grey, massive. Locally burrowed.	0.90	13.95
	Sandstone, shaly, purplish-grey with numerous worm burrows.	0.30	14.25
	Sandstone, pale grey, fine grained stylolitic.	0.35	14.60
	Limestone, grey, oolitic, massive, with some shells.	0.67	15.27
	Mudstone, grey.	0.03	15.30
	Limestone, calcilutite, grey, apparently bioturbated. 'Flakes' of pale grey limestone set in a darker and coarser matrix. Flakes parallel to bedding.	0.35	15.65
	Mudstone, sheared, red/grey mottled.	0.03	15.68
	Limestone, calcilutite as above.	0.72	16.10
	Limestone, grey with numerous small rounded cavities less than 1mm diam. possibly dissolved ooliths.	0.10	16.20
	Limestone, calcarenite, grey, massive.	0.73	16.93

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Tytherington No.1

Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.73	16.93
	Limestone 'pseudo-breccia'. Rounded nodules in pale matrix. Nodules up to 20mm diam. but mainly less than 1mm.	0.63	17.55
	Limestone, calcarenite with traces of 'pseudobrecciation'	0.27	17.82
	Shale, calcareous, grey. Dip 25°	0.02	17.84
	Limestone, calcarenite, grey, massive, sometimes oolitic.	0.20	18.64
	Limestone, pseudobreccia, oolitic. Cololiths confined to matrix.	0.07	18.71
	Limestone, calcarenite, sometimes oolitic, grey.	0.54	19.25
	Limestone 'pseudobreccia'. Lozenge-shaped nodules parallel to bedding, grey red in a muddy brownish matrix.	0.50	19.75
	Limestone, shaly with numerous shell fragments. Purplish-grey.	0.18	19.93
	Limestone, calcarenite, with coral (<i>Syringopora</i>) at top. Brecciated and recemented by calcite veins. Some open calcite-lined cavities. Steep-dipping hematite partings cut by steep dipping calcite veins and both in turn cut by shallow-dipping calcite veins. Passes down into		
	Limestone, oolitic, pseudobrecciated. Cololiths confined to matrix.	0.20	20.13
	Limestone, calcarenite, grey.	0.23	20.36
	Limestone, pseudobreccia with 'clasts' oriented parallel to bedding. Becoming shaly downwards.	0.06	20.42
	Fault breccia of limestone cemented by calcite. Some calcite-lined cavities. Base dips at c 80°	1.63	22.05
	Limestone, calcarenite	0.25	22.30
	Siltstone, purple, micaceous, calcareous.	0.05	22.35
	Siltstone, grey, micaceous, calcareous.	0.05	22.40
	Limestone, calcarenite, pinkish grey	0.20	22.60
	Limestone, finely pseudobrecciated, purplish grey.	0.08	22.68
	Limestone, calcarenite, purplish-grey	0.10	22.78

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.10	22.78
	with steep dipping calcite-vein which terminates abruptly against mudstone below.		
	Mudstone, sandy and silty, mottled purplish-grey. Steep dipping, laminae in places and generally much disturbed by burrowing.	0.97	23.75
	Sandstone, medium grained, micaceous, only slightly calcareous, mainly purple with white mottling. Finely laminated in places and laminae may be much contorted due to slumping.	3.40	27.15
	Mudstone, blotchy purple/brown/grey slickensided. No obvious bedding planes.	1.10	28.25
	Siltstone, pale grey, massive.	0.40	28.65
	Mudstone, purple, massive.	0.50	29.15
	Sandstone, purple, medium grained.	0.15	29.30
	Mudstone, purple.	0.08	29.38
	Sandstone purple, with white veins and some muddy partings, slightly micaceous.	0.36	29.74
	Siltstone, purple-brown with some mica. Much disturbed, probably by burrowing. Some grey bands.	2.09	31.83
	Sandstone, medium grained, feldspathic, with rare mudstone nodules and partings. Sometimes laminated and false-bedded. Non-calcareous. Silty at base.	1.82	33.65
	Mudstone, purple-grey with deep-purple rounded nodules.	0.15	33.80
	Sandstone, purple with grey mottlings sometimes laminated. More purple sandstone inclusions of very irregular shape - probably burrow fillings.	2.98	36.78
	Dip 15°		
	Mudstone, purple with rounded nodules like the quasibrecciated limestone. Slickensided.	0.47	37.25
	Sandstone, purple, coarse with pebbles up to 2mm diam. at base.	0.53	37.78
	Siltstone, purple, laminated	0.07	37.85
	Mudstone and siltstone, purple, burrowed	0.83	38.68

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.83	38.68
	sandstone medium-coarse purple with numerous mudstone inclusions near top. Sometimes with muddy laminations and burrows.	3.87	42.55
	sandstone, fine grained, purple with small scale cross bedding.	0.30	42.85
	Siltstone, mudstone and fine sandstone, laminated and cross bedded, purple and grey.	0.60	43.45
	Sandstone, coarse, purple, feldspathic.	1.20	44.65
	Mudstone, purple with ochre brown rounded blotches and patches. Possibly burrowed.	2.40	47.05
	Mudstone, calcareous, deep purple with rounded nodules of green-brown carbonate 3-4mm across. Rapidly swells when wet.	0.60	47.65
	Mudstone as above, greenish grey Basal 10cm. heavily sheared.	0.40	48.05
	limestone, grey, micritic. Top 70 cms. heavily sheared. Steep calcite veins cut by steep stylolites and both cut by shallow-dipping stylolites.	2.90	50.95
	Limestone as above, but quasibrecciated. 'Clasts' are finer grained and paler grey than matrix. Dip 25°.	1.45	52.40
	Limestone, calcilutite banded, grey, stylolitic	0.62	53.02
	Limestone or calcareous shale; dark grey, finely laminated. Gives off H ₂ S when treated with dilute acid. Passing down into	0.10	53.12
	Limestone, calcilutite, dark grey quasi quasibrecciated (almost certainly burrowing). Gives H ₂ S with acid. strongly laminated and shaly in places, with crinoid debris.	1.80	55.00
	Shale, calcareous, dark grey.	0.20	55.20
	quasibreccia. Rounded 'clasts' of calcarenite at least 10 cms diam. in calcareous shale as above. Lamination in shale is contorted around limestone clasts. (Strongly resembles quasibreccia of Co. Tyrone - see Fowler & Robbie, 1958 see Geol. Surv. N. Ireland).	0.18	55.38

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.18	55.38
	Shale, calcareous, dark grey.	0.06	55.44
	Limestone, calcarenite, crinoidal, medium grey with occasional rounded inclusions of darker grey calcilutite with stylolitic and calcite-veined margins.	0.67	56.11
	Limestone, calcilutite breccia, 'Clasts' in breccia are small (below 5mm) and not strongly contrasted to paler grey matrix.	0.24	56.35
	Quasibreccia, similar to above, but clasts are larger (up to 5cm) more elongate make up the bulk of the rock and are more clearly contrasted to the matrix.	0.25	56.60
	Limestone, calcilutite, dark grey, laminated with streaked-out disrupted bedding.	0.42	57.02
	Quasibreccia. Angular 'clasts' of pale grey often laminated calcilutite roughly bedded and set in a darker grey calcilutite matrix. One more massive band of calcilutite c. 4 cms thick is broken up and shows offsets of up to 6 cms.	6.27	57.29
	Calcilutite, medium grey, massive, stylolites cut by late calcite veins.	0.38	57.67
	Calcilutite, medium-grey, faintly quasi- brecciated - clasts barely distinguishable. Bands of muddy calcilutite with disrupted streaked-out bedding.	0.43	58.10
	Dolomite, micritic, pale grey, almost white in places, massive.	0.58	58.68
	Dolomite as above but quasibrecciated.	0.30	58.98
	Dolomite quasibreccia. Greater colour con- trast to clasts and many muddy streaks.	0.30	59.28
	Limestone, calcilutite, dark grey with quasi- brecciated base.	0.30	59.58
	Dolomite, micritic, dark grey, laminated with muddy partings.	0.20	59.78

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.20	59.76
	Dolomite, micritic with numerous lozenge-shaped, paler inclusions (pellets ? gymsen pseudomorphs?).	0.12	59.90
	Dolomite, micritic, dark grey.	0.16	60.06
	Dolomite, laminated, contorted - possibly algal.	0.02	60.08
	Fault breccia with calcite lined cavities.	0.08	60.16
	Dolomite, micritic, dark grey.	0.08	60.24
	Dolomite shaly, dark grey.	0.10	60.34
	Dolomite, micritic, quasibrecciated with some laminar.	0.35	60.69
	Dolomite, dark grey, laminated, irregular upper surface.	0.10	60.79
	Limestone, calcilutite, dark grey, Top 4-5 cms brecciated with clasts set in white calcite.	0.20	60.99
	Dolomite, pseudobreccia, dark grey, micritic.	0.20	61.24
	Limestone and muddy limestone, dark grey. Top much sheared.	0.31	61.55
	Dolomite, micritic, dark grey, variously quasibrecciated and laminated.	0.65	62.20
	Dolomite as above but much more strongly quasibrecciated with steeply dipping and contorted laminae.	0.70	62.90
	Limestone, micritic, dark grey, often quasibrecciated and with laminated beds.	0.30	63.20
	Dolomite micritic, dark grey.	0.21	63.41
	Limestone, muddy strongly banded with layers of rounded calcareous nodules possibly algal or due to quasibrecciation. Nodules up to 2 cms. diam.	0.74	64.15
	Limestone, fine calcarenite, dark grey.	0.50	64.65
	Limestone, as above, faintly quasibrecciated.	0.30	64.95
	Limestone, muddy, quasibrecciated with small calcareous nodules. At contact with limestone above nodules are replaced by white calcite.	0.47	65.42
	Limestone, micritic but showing patchy recrystallisation.	0.20	65.62

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.20	65.62
	Mudstone, dark grey calcareous, shaly passing down into	0.13	65.75
	Limestone, calcilutite, top 10 cms. showing small scale quasibrecciation, some strong steeply-dipping stylolites.	1.07	66.82
	Limestone, either slightly calcareous or dolomitic, dark grey.	0.26	67.18
	Dolomite, dark grey with several sets of calcite veins and stylolites.	0.22	67.40
	Limestone, dark grey, calcilutite, sometimes with faint quasibrecciation.	0.60	68.00
	Limestone, strongly quasibrecciated as 55.20 - 55.30m.	0.18	68.18
	Limestone, micritic, dark brownish-grey, faintly quasibrecciated. Top is probably sheared as there is a strong vuggy, calcite vein. Another calcite vein at 68.70m shows slickensides.	0.64	68.82
	Dolomite, muddy laminated, contorted	0.03	68.85
	Limestone, quasibrecciated as 68.18m but with interstitial muddy matrix almost eliminated.	0.40	69.25
	Dolomite, and dolomitic limestone, dark grey, micritic with some strong stylolites.	0.85	70.10
	Dolomite, strongly brecciated, with angular to rounded 'clasts' of finely laminated dolomite. Some later calcite veins but brecciation is probably of sedimentary origin.	0.40	70.50
	Dolomite, medium grey with numerous calcite veins and stylolites, some squeezed out, contorted muddy partings.	0.90	71.45
	Dolomite, quasibreccia		71.71
	Dolomite, pale - medium-grey, massive, porcellaneous. Cut by numerous calcite veins and stylolites adjacent to which is a blood-red staining. Basal 6 cms. calcareous.	1.38	73.09
	Shale, high carbonaceous, coaly.	0.03	73.12

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.03	73.12
	Dolomite as above, sometimes laminated. Cut by steep dipping 0 cms shear with much calcite between 74.25 and 74.65m. Muddy parting at 74.85m.	3.28	75.40
	Dolomite, quasi brecciated, with strongly laminated angular 'clasts' up to 4 - 5 cms.	0.30	75.70
	Dolomite, micritic, medium grey, with minor quasi brecciation. Frequent laminated bands and thin bands of muddy dolomite.	1.95	77.65
	Dolomite as above, laminated with much disruption of laminae - probably by burrowing.	0.40	78.05
	Dolomite, pale grey, micritic, massive with purple patches. Strong water solution along joint plane just above base.	0.40	78.45
	Dolomite, medium - pale grey, micritic with variable, but usually strong quasi brecciation. Clasts in breccia usually sub-rounded to sub-angular and in places are clearly disrupted beds. Laminated in places. Clasts always paler than matrix.	1.00	79.53
	Dolomite, pale grey, micritic, massive	0.24	79.77
	Dolomite, pale grey, micritic, quasi brecciated with disrupted laminae and rounded clasts. Styolitic.	0.22	79.99
	Dolomite, pale grey, micritic, massive. Numerous thin calcite veins increasing in number towards sheared base of unit.	2.49	82.48
	Dolomite, medium grey, micritic, highly disrupted laminae - not apparently due to shearing. Calcite lined cavity.	0.07	82.55
	Dolomite massive, micritic, medium grey becoming darker with depth. Basal 5 cms. strongly quasi brecciated. Many calcite veins.	0.35	82.90
	Limestone, fine calcarenite or coarse calcilutite, dark grey, 5 cms. bands of quasi breccia at 82.94m and 83.37m. Rare pyrite.	0.79	83.69

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.79	83.69
	Dolomite, medium grey, coarse, micritic.	0.15	83.84
	Limestone, dark grey, pseudo breccia. 'Clasts' are micritic and matrix is coarser - approaching calcarenite. Sub-rounded to angular clasts.	1.46	85.30
	Limestone, coarse micrite, dark grey, laminated between 85.45m and 85.55m.	0.54	85.84
	Limestone, dark grey, pseudo breccia with in- tense burrowing. Pitted joint-plane at 86.0m. (19cms. of core missing here).	0.46	86.30
	Limestone, medium grey, calcilutite massive, with faint banding. Steep calcite veins and stylolites.	0.55	86.85
	Limestone, dark grey, micritic, intensely quasi- brecciated. Steep 5mm calcite vein with hematite along walls extends from 89.05m - 89.55m.	2.70	89.55
	Limestone, medium grey, micritic, massive with minor quasi brecciated band. Becoming dar- ker with depth. Rare disseminated pyrite.	1.10	90.65
	Limestone, dark grey, micritic, quasi breccia- ted.	0.30	90.95
	Limestone, dark grey, micritic with minor quasi brecciated bands. Rare disseminated pyrite.	1.10	92.05
	Limestone, dark grey, quasi brecciated.	0.70	92.75
	Limestone, dark grey, micritic, disrupted la- minae.	0.15	92.90
	Limestone, dark grey, micritic.	0.11	93.01
	Dolomite, dark grey, micritic, faintly banded.	0.10	93.11
	Limestone, dark grey, micritic, undulating la- minae. Dip 15°.	0.18	93.29
	Shale, or highly sheared clay, with contorted laminations. Soft greasy feel. Dark grey. Sof- tens rapidly on wetting. Brown spots.	0.20	93.49
	Siltstone and mudstone, calcareous, laminated, red-brown, greenish-grey with small scale faulting.	0.15	93.64
	Mudstone, red-brown, greenish-grey with much disturbed bedding.	0.28	93.92

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Geological Classification	Description of Strata	Thickness metres	Depth metres
	Brought Forward	0.28	93.92
	limestone, red, brown, silty, hard, massive, occasional thin laminated beds and disrupted beds. Greenish-grey reduction patches. Numerous thin calcite veins.	0.98	94.90
	Limestone, dark grey with red staining. Coarse, micrite. Top surface striated.	0.20	95.10
	limestone, red brown, top 10 cms. highly sheared, rest hard, massive, with numerous calcite veins. steep dipping calcite-cemented fault breccia up to 2 cms. between 95.35m and 96.20m. Basal 10 cms. highly sheared, purple.	1.18	96.28
	Limestone, oolitic, pale grey, massive, hard. Top 50 cms. stained with iron and somewhat sheared. Some variation in size of ooliths from fine to medium. angular fragments of darker grey calcilutite scattered sparsely throughout between 100.70m and 101.70m. Thin calcite veins and a few stylolites, pass down into	18.28	114.55
	Limestone, oolitic with scattered calcite plates, some of which are recrystallised crinoid ossicles. The oolitic nature of the rock is not obvious where the recrystallised crinoids are abundant. scattered brachiopods. Calcite veins with pyrite between 116.85 and 118.10. becomes more obviously oolitic below 117 - 118m.	3.45	118.00
	Limestone, calcarenite with numerous recrystallised crinoid ossicles. Somewhat oolitic at top. Numerous stylolites and some thin calcite-sulphide veins. Stylolites cut calcite veins. Sometimes slightly oolitic.	4.85	122.85
	Limestone, medium grey, oolitic with some crinoids. Cut by irregular calcite/pyrite vein. Upper and lower contacts are stylolitic.	0.45	123.30
	Limestone, medium - dark grey, bioclastic calcarenite with abundant crinoids and brachiopods. Occasional calcite/pyrite veins and a few stylolites.	5.85	129.15

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Name and Number of Shaft or Borehole :

Wytherington No. 3

6-in or 1:10 000 Map Registration No.

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ST 6643 8823

251/194 March 1944

March ~~to~~ May 1972

BRISTOL AVON RIVER AUTHORITY

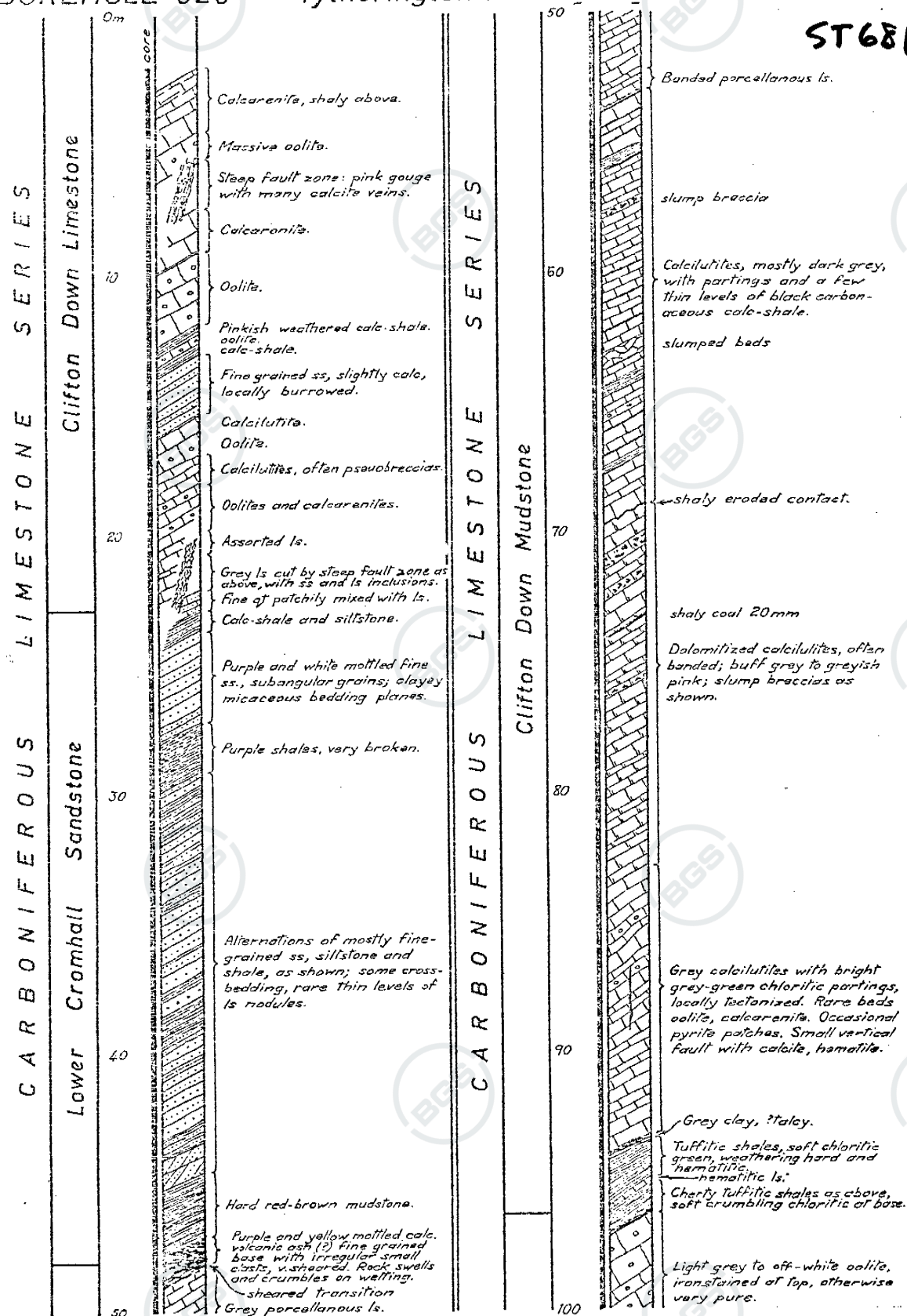
BOREHOLE 020

Tytherington 1

ST 66438823

A.O.D. 75.80m

ST 68/20



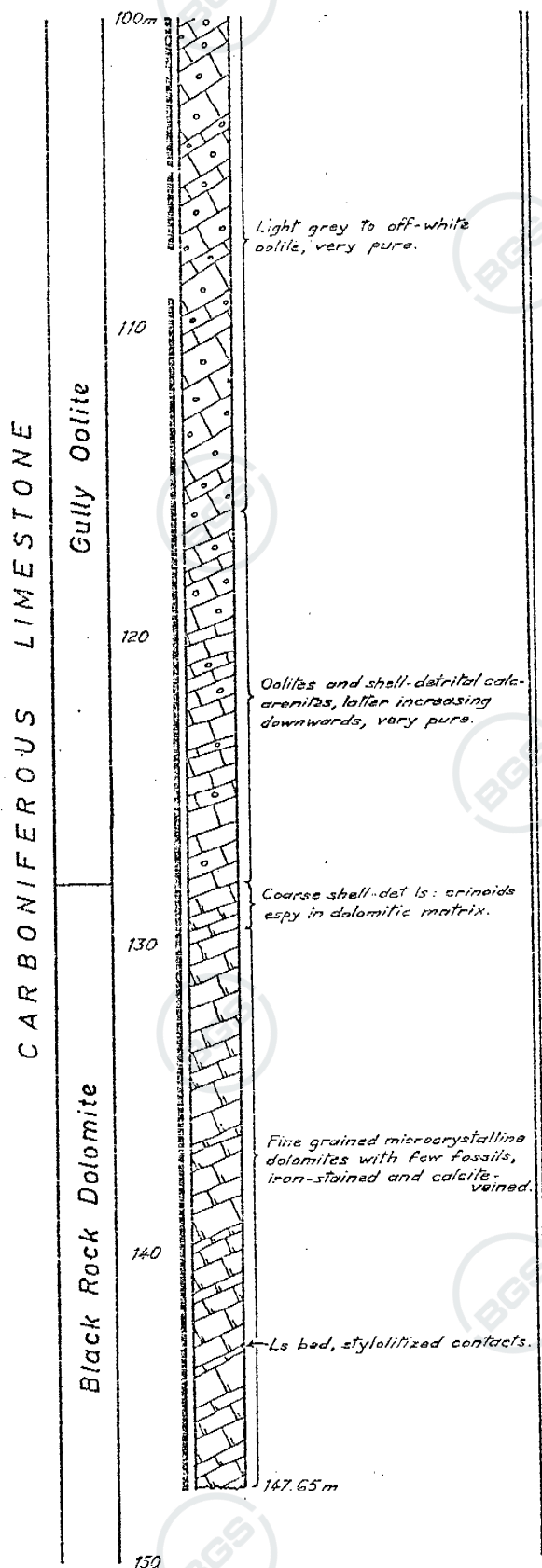
Hole diameter 101mm to 114.55m, then 86mm to bottom

Sited on Glos. 63 SE/E

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PUMP TESTS:

0 - 50 m - nil yield
50-100 m - 70gph
100-150 m 70gph

Slight artesian flow on completion

Cores were massive rock, joints and bedding planes being few and tight. No solution cavities were found.