

Feature

Bedding
Foliation
Fragment
size & shape



Shearing
Fault
Vein



Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

| CORE REC'D | DEPTH m | GEOLOGY | VISUAL LOG | MINERALIZATION | | | DEPTH m |
|------------|---------|---|------------|----------------|--------|----------|---------|
| | | | | TRACE | COMMON | ABUNDANT | |
| | | No core - HW through tailings pile & swamp. | | | | | |
| | 3.0 | <u>Black carbonaceous shale.</u> A homogeneous rock with a locally well developed cleavage; gen // to c.A. No definite bedding is observed. Core very broken. | | | | | Py rare |
| | 5 | | | | | | |
| | 7.5 | <u>Lt. to med grey cong. tuffaceous greywacke.</u> A bedded highly tuffaceous rock w. oblate black shale clasts // to bedding forming to 15% of rock. Core very broken. | | | | | |
| | 10.5 | <u>Lt. grey to dk. grey shale.</u> A gen. homogeneous interval. cleavage is weak & parallel to weak bedding where present. rock is locally cong. w oblate black shale clast forming a minor component. Core is very broken. Bedding 30° to c.A.? | | | | | |
| | 15 | | | | | | |
| | 17.5 | <u>Med. grey cong. tuffaceous greywacke</u> Description as for 7.5 - 10.5 m. Bedding 0-20° to c.A. | | | | | |
| | 18.9 | <u>Lt. grey green f.g. tuff.</u> Transitional contact over 20cm. w. unit above. | | | | | |
| | 20 | A. gen massive to locally bedded rock. Highly sericitic rock w. minor flecks of dk. green dolomite. Texture is gen. homogeneous f.g. to m.g. volc. material. local bedding is in finer material's is 45° to c.A. Irregular fracture surfaces low to mod. angle to c.A. show mi p.o. location low angle to c.A. Core is badly broken. | | | | | |
| | 25.0 | 20.0 2um c vein 30° c.A. | | | | | |

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|-----------|-------------|---|------------|-------|--------|----------|---------|---------|----------------|
| 1-5 | | Lithology - as above - interbedded well laminated mudstones. | | | | | | | |
| 1-5 | | | | | | | | | |
| 1-7 | | | | | | | | | |
| 1-2 | 55 | | | | | | | | |
| 3-0 | | | | | | | | | |
| 3-0 | 60 | | | | | | | | |
| 1-9 | | | | | | | | | |
| 1-3 | | | | | | | | | |
| 2-0 | 65 65-25 | <u>Lt. grey to dk. grey lithic arenite</u> - massive dominantly tuffaceous rock. | | | | | | | |
| 1-0 | 66-2 | <u>Lt. grey green massive to bedded volcanic arenite.</u> A tuffaceous rock. bedding 25° to c.A. | | | | | | | |
| 1-3 | 67-85 | <u>Interbedded med to dk. grey mudstone & lt. grey green volc. arenite.</u> | | | | | | | |
| HQ NQ | 1-5 | Gen well bedded mudstones containing oblate clasts of black mudstone av. 1cm x 2mm // to bedding. Bedding is consistently low angle to c.A. (0-20°) | | | | | | | |
| 7 | | Interbeds of volc arenite (ie tuffaceous greywacke) (50%) to 60cm. Boundaries are gen. conformable to bedding & may show sed. brecciation of the tuff & local stumping. | | | | | | | |
| 2-0 | | | | | | | | | |
| 3-0 | 74-8 75 | | | | | | | | |

Py rare

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|------------|---------|--|------------|----------------|--------|----------|---------|----------------|
| | | | | TRACE | COMMON | ABUNDANT | | |
| | 101.2 | Interbedded cream to lt. grey to black mudstone to siltstone and cream to lt. grey f.g. to m.g. volcanic arenite; slumped & contorted | | | | | | |
| 3.0 | | A thick interval of gen. well bedded mudstone to siltstone associated w. thin to thick (1mm to 2m) interbeds of massive buffaceous greywacke. Slumping & rafting and s. sed. faulting are common features. This mudstone beds may be very contorted. | | | | | | |
| | 105 | Bedding is gen. constant through the interval at low to mod. angles to c.A. | | | | | | |
| 3.0 | | 102m - 40° 105m - 45° 110m - 15° 115 - 30° 120 - 45° 125 - 45° 130 - 10° 135 - 30° 140 - 35° | | | | | | |
| | 110 | | | | | | | |
| 3.0 | | | | | | | | |
| | 115 | | | | | | | |
| 3.0 | | | | | | | | |
| | 120 | | | | | | | |
| 3.0 | | | | | | | | |
| | 123.5 | | | | | | | |
| | 125 | | | | | | | |

Py rate

2m core 20° c.A.

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|------------|---------|--|------------|-------------------------------|---|---|
| | | Lithology - as above - Dk. gray to black (carbonaceous) massive to bedded mudstone & shale. | sid | | 176.3 | 5cm Gn 2-3, Sp 2-3 sid vein 65% to c.A. |
| 3.0 | 178.4 | Lt. grey well bedded siltstone to mudstone. A very uniform well laminated rock. Bedding is constant at 60-70° throughout the interval. A very weak layer parallel cleavage is present. | | | 180 | |
| 3.0 | 181.3 | Lt. grey brecciated weakly to extensively silicified dolomite. Weak brecciation grades rapidly at 182.2 to extensive brecciation. Subrounded to angular moderately silicified dol. frag. 1mm to 3cm (2-3cm) are percolated by a highly siliceous matrix. Tectonic breccia? | | | 185 | Py rare |
| 3.0 | 185.85 | Cream sideritic dolomite breccia 185.85 m marks the rapid gradational incoming of intense siderite alteration of the dolomite breccia lithology above. The alteration overprints the fragments but may leave the siliceous to silty intra fragment material unaltered. This sideritic alteration is assoc. with minor amounts of resinous sphalerite & f.g. galena & possible cassiterite?? which occur as f.g. diss. & rare veins. 186.3-186.7 - 10% soln cavities | | | 185.85 | Sp 1-2 (5) f.g. diss. & aggreg. Gn 1-2 (5) " " both also assoc w. rare qtz. veinlets. Py rare |
| 6 | 190 | 191.6-192.1 50cm cavity w. carb. growth on walls. | | | 190 | |
| 6 | 192.3 | Py-siderite-qtz lode. A gen massive lode though a local weak layering on cm scale defined by py & sid rich bands may occur; 50-60° to c.A. Consists of py 20-80% av. 60% as f.g. to m.g. aggreg. & often bladed xtals => xtalization in a stressed env. Cream siderite 5-70% gen 20% occurs as irreg. f.g. aggreg. to anhedral (e.g. white qtz. 5-20% as irreg. blebs & wisps & rare irreg. & discont. veins (brecciating py.) Ground is broken with only % core recovery. 194.3 FAULT - pug ? to c.A. | | | 191.6 192.1 192.3 192.7 194.3 195 196.1 196.7 197.7 | Py 25 f.g. aggreg. assoc. w. qtz & siderite. Py 70 f.g. assoc. w. sid 20 & qtz 10 Tr. Gn. f.g. to m.g. Py 50 (30-60) f.g. to m.g. aggreg. & diss. assoc. w. sid. & lesser qtz. Tr. Gn. f.g. to m.g. diss. Py as above. Gn 2-3 f.g. to m.g. aggreg. & veins. 25% to c.A. Py as above. Py 70 f.g. to m.g. aggreg. assoc. w. qtz & sid. |
| 1.7 | 195 | | | | | |
| 8 | | | | | | |
| 1.7 | | | | | | |
| | 200.0 | | | | 200.0 | |

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|------------|---------|--|------------|-------------------------------|---------------------------|--|
| 1.5 | | <u>Cream sideritic dolomite (breccia)</u> An interval of completely sideritized dolomite. Brecciation is not as extensive as for 185.85 - 192.3. However white chalcidonic silica veins, veinlets & blebs (to 25%) pervade the rock => local breccia textures. These veinlets have a general p.o. 45° to c.A. Core is very broken. Possible relict stylolites are evident | | | | Py rare f.g. Sp 1-2 f.g. to mg. Cu " " |
| .5 | | | | | | |
| .5 | | | | | | |
| .5 | | | | | | |
| .5 | | | | | | |
| .5 | | | | | 204.2 204.35 204.55 | Py 80 qtz ven. 45°? to c.A. Py 80 qtz ven. loc. 25° to c.A. |
| .7 | 205 | | | | 205 | Py rare f.g. Sp 1-2 f.g. to c.g. Cu " " |
| .3 | | | | | | |
| .55 | | FAULT - Pug ?° to c.A. | | | 206.5 | |
| .4 | 207.9 | FAULT ZONE? Broken core & pug. ?° to c.A. | | | 207.9 | |
| .4 | | | | | | |
| .6 | | Well laminated interbedded lt. grey to black mudstone to shale. | | | | Py rare. |
| .6 | | v. finely interlaminated pelitic rock (on the scale of mm's) Bedding constant between 40 & 60° (av 45°) to c.A. | | | 210 | |
| 1.4 | 210 | A weak layer II cleavage is present - bedding fissility or tectonic? Also a weaker crosscutting cleavage ≈ 45° to c.A. | | | 210 | |
| .7 | | Core is locally v. broken. c veinlets no. p.o. are common. | | | | |
| .3 | | | | | | |
| .3 | | | | | | |
| 1.6 | 215 | | | | 215 | |
| 1.5 | | | | | | |
| 1.4 | | | | | | |
| .5 | 220 | | | | 220 | |
| .6 | | 8cm sid ven 65° to c.A. | | | 220.6 | |
| .7 | | | | | | |
| 1.9 | | | | | | |
| | 223.5 | END OF HOLE | | | | |
| | 225 | | | | 225 | |