

Code	From	To	Unit	Code	Description
	10 14 16 20	22 23 25 27			
L	10 14 16 20	22 23 25 27	1	#	
L	15 00	15 80	2	5B	At 125-129 - 4F2, minor equant pyrite porphs.
L	15 80	20 25	3	5D	→4D378; mod. calcareous metabasite w/mottled texture (finely mottled); possibly some relict. igneous phases
L	20 25	27 41 8	4	5B	4F2 at 348-370 and 485.5-487.9 and at 546-571.7 4D38 at: 399-400 and 406.6-407.3
L	27 41 8	27 43 5	5	5D	→4D38: all metabasites seen are calcareous, finely mottled chloritic, lt. olive green.
L	27 43 5	28 9 2 0	6	5B	At 789.5 - unit becoming less calcareous & possibly more carbonaceous at 800-801.5= 4D8 w/much mariposite-fuchsite
L	28 9 2 0	29 0 5 0	7	5D	→ 4D378
L	29 0 5 0	29 1 1 0	8	5B	→ 4B29; "ribbon banded graphitic po. bearing carbonates" looks like 2A0, except calcareous but non-siliceous
L	29 1 1 0	29 7 7 0	9	5D	→4D378
L	29 7 7 0	30 0 9 3	10	5B	As unit b, less calcareous, more carbonaceous than upper part of DDH.
L	30 0 9 3	30 4 4 0	11	5B	More calcareous than unit 10, relatively less carbon, unit cf # 2 & 4.
L	30 4 4 0	30 8 4 0	12	5A	→4B39; pyrite bearing, unit looks like wkly.devel. pyritic ribbon banded graphitic qtzte. (i.e. 2A0) only the white sulfide bearing bands are siliceous and calcareous, no base metal sulfides.
L	30 8 4 0	31 1 3 2 0	13	5A	→4B13; at 1084-1093 wkly. calcareous, wkly. banded, very fine crystalline, non-laminarly banded graphitic phyllite. Unit distinguished by texturally even appearance and absence of laminae banding; upper portion calcareous, lower unit siliceous and non-calcareous.
L	31 1 3 2 0	31 1 5 7 0	14	5B	Patchy and weakly calcareous, dominant 4B0.
L	31 1 5 7 0	31 1 6 2 0	15	5D	Broken rubly, non-calcareous, lt. beige-olive green, wkly. mottled.
L	31 1 6 2 0	31 2 0 9 0	16	5A	Interbanded 4B0 and 4B9 where 4B9 ≈ 2A0; cherty exhalite bands, non base metal bearing; pyrrhotite bearing, non-pyritic, non-calcareous siliceous, this unit and similar ones downhole ≡ margin of Grum.
L	31 2 0 9 0	31 2 3 4 8	17	5D	→ 4D378, unit shows gradational contact w/4B0 over 6" interval, lower contact sharp and broadly conformable to S <sub>2</sub> .

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	10 14 16 20 22 23 25 27				
L	1 2 3 4 8	1 9 4 9 0	1, 8	<del>SA</del> SA 2, 0	→ 4B9; unit ≡ Grm graphitic-phyllite horizon, shows sporadic development of sulfide bearing graphitic qtztes. cherty exhalite layers contain pyrite as the sole sulfide from 1234.8-1368; from 1368-1949 cherty exhalite layers contain dominantly pyrrhotite w/subordinate pyrite or entirely pyrrhotite, unit appears to become slightly more siliceous towards base.
L	1 9 4 9 0	1 9 5 7 5	1, 9	<del>SA</del> SA 2, 3	Siliceous, po-bearing; cherty exhalite bands gone, numerous carbonite rich bands through interval.
L	1 9 5 7 5	1 9 8 5 5	2, 0	<del>SA</del> SA 2, G, 2 5B62 3G2	→ 4C237; non-graphitic, lt. grey-green, bio-musc.-chlor. phyllite w/ calcareous-epidote-clino-amphibol-rich bands alternating w/med. grey-green choritic phyllit showing clino-amph. rosettes.
L	1 9 8 5 5	2 0 8 4 5	2, 1	<del>SA</del> SA 2, 1	→ 4B13; c.f. unit 13; at 1985.5-2010 unit containing ½"-3" calcareous bands of 4B3; remainder of unit is non-calcareous, lt. grey, markedly siliceous (4A1).
L	2 0 8 4 5	2 0 8 6 8	2, 2	<del>SA</del> SA 2, 3	→ 4D38; lt. olive green, w/fine ankerite-carbonate mottl
L	2 0 8 6 8	2 1 0 6 0	2, 3	4 B, 1	As unit 21.
L	2 1 0 6 0	2 1 1 4 0	2, 4	<del>SA</del> SA 2, 3	→ 4D38; as unit 22, unmottled, unit shows lensoid ankerit banding.
L	2 1 1 4 0	2 1 2 6 0	2, 5	<del>SA</del> SA 2, 2	→ 4C32;
L	2 1 2 6 0	2 1 3 2 0	2, 6	<del>SA</del> SA 2, 3	→ 4D38.
L	2 1 3 2 0	2 1 6 4 5	2, 7	<del>SA</del> SA 2, 2	→ 4C32; as unit 25.
L	2 1 6 4 5	2 1 6 9 0	2, 8	<del>SA</del> SA 2, 3	→ 4D38; origin of 4D38 units uncertain; maybe calcareous tuffs or dolomite-pelite mixtures.
L	2 1 6 9 0	2 1 7 8 5	2, 9	<del>SA</del> SA 2, 1	Unit closely resembles, calc-silicate unit 3D4; non-carbonaceous characterized by predominance of purplish brown biotite.
L	2 1 7 8 5	2 2 4 4 0	3, 0	<del>SA</del> SA 2, 2	→ 4C32; as units 25 & 27; these units thinly to laminarly banded, alternated lt. grey calcareous, brown biotite rich and dk. brown-grey graphite bands; entire interval charact by post D <sub>2</sub> carbonate filled hairline fractures; 2086.8-2244 is sensably the same unit & is cf. but not identical to calc-silicate.
L	2 2 4 4 0	2 2 5 2 5	3, 1	<del>SA</del> SA 2, 1	1' clacareous band at 2250-2251.

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Code	From	To	Unit	Code	Description
L	10 14 16 20 22 23 25 27			5B	
L	2, 2, 5, 2 5	2, 2, 6, 2 8	3, 2	5B, 5	Unit is lt. olive green, banded, calcareous, chlorite phyllite, origin unknown, characterized by chlorite-calcareous banding.
L	2, 2, 6, 2 8	2, 2, 7, 8 0	3, 3	5A, 5B, 1	Mostly gouge and rubble, non-calcareous, strongly graphitic, no sulfides.
L	2, 2, 7, 8 0	2, 3, 0, 7 6	3, 4	5B, 2, 2	As unit 30; and interval 2086.6-2244; this unit is not identical to calcareous phyllites overlying Grum graphitic phyllite.
L	2, 3, 0, 7 6	2, 3, 7, 9 8	3, 5	5A, 5B, 1	→4B19; unit c.f. base of Grum - Vangorda phyllite (e.g. unit 18).
L	2, 3, 7, 9 8	2, 3, 9, 4 2	3, 6	5A, 5, 5A, 5, SA	Interbanded 5D8 and 5B1, 5D8 5B1; 5D8 & 5B1 both non-calcareous
L	2, 3, 9, 4 2	2, 4, 0, 4 0	3, 7	4, F, 7	→CPX - Garnet skarn to silicated marble. unit pervaded by post D <sub>2</sub> hairline-calcite fractures X-cutting S <sub>2</sub> minor mariposite.
					END OF HOLE