

Lithologic Log

Logged By: *[Signature]*

017004

Code	From (feet)		To (feet)		Unit	Code	Description
	10	14	16	20			
		0	6.6	21	5	1	# O/B
		21	29.4	94	5	2	3G10 Typical, non-calc., chlo > musc gtz phyllite of unit 3G; same as 78 Cat-02 unit 2
		91.6	49.1	161	0	3	3E10 Normal graphitic phyllite, minor po = py, non-calc., generally 75 <sub>2</sub> fol.
		161	74.9	214	5	4	3E1 Siliceous graphitic phyllite; laminarly & tentatively banded graphitic / carbonaceous pelitic layers interleaved w/ off-white to m. gray siliceous (qtzite) bands; ident to 3E1 in 78 Cat-02 units 4, 8 & 10; unit non-calc. & commonly shows good relief F <sub>2</sub> hinges in siliceous bands bounded by D <sub>2</sub> (S <sub>1</sub> ) graphitic pressure solution stripes (cumulation foliation)
		245	96.3	311	0	5	3G10 M. gray, non-calc., carbonaceous gtz-musc- (carbon) phyllite; typical 3G10 as seen thru much of Seem Terrace (GAT's "normal" phyllite)
		316	113.5	369	0	10	3E1 As unit 4
		369	131.1	430	0	7	31 Calcareous, brownish med gray, weakly var. carbonaceous biotite phyllites to phyllitic marbles; unit boundary marks first visible appearance of biotite; ident to unit 11 in 78 Cat-02
		430	140.5	460	8	8	3G10 Non-calc, w/ky var. carb. bio. phyllite i.e. biotite grade equiv of unit 5 apex
		460	154.5	507	0	9	31 As unit 7 only more weakly & patchily calcareous; calc. bio. phyll to locally bio. phyllitic marbles of unit 3

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Code	From (feet)		To (feet)		Unit	Code	Description
	10	14	16	20			
L		00	7.6	25.0	1	#	C/B
L		25.0	18.9	162.0	2	31G10	Typical chlor. musc., non calc phyllite of unit 3G
L		162.0	33.5	111.0	3	31E0	Normal unit 3 graph. phyll.; poor ore recovery 78-108 of approx. 8-10 recovered over 40' interval; unit non-calc. & non-sulfid bearing
L		111.0	96.3	131.6	4	31E1	Quite silicious graph. phyll. characterized by laminae, lenticular quartzose bands // S <sub>2</sub> w/ commonly well preserved, well F <sub>2</sub> hinges on these silicious laminae; unit unrepresentative of 78 Janice 01 & 02; non-calc. & shows common dis. porphy which could easily account for IP effects (if any); unit not 4a!; unit not uniformly graphitic w/ good graph. pressure solution stripes/crinitation for // S <sub>2</sub> ; unit of unit carbonaceous <sup>to carbonaceous</sup> typical SE1
L		131.6	106.7	135.0	5	31G12	Generally PS <sub>2</sub> foliated, m. greenish gray, carbonaceous, non-calc musc-gly-chl(?) phyllite
L		135.0	112.5	131.6	6	31E1	c.f. unit 4 but generally more graphitic
L		136.9	112.8	137.0	7	31E1	As units 4 & 6 but moderately calcareous; this identical to calcareous graph. phyll. seen in 78 Janice 01 & 02
L		137.0	180.9	412.9	8	31E1	As unit 4; note appearance of biotite in phase assemblage at about 403.5' suggesting transition from chlorite to biotite grade of greenschist D <sub>2</sub> meta <sup>sm.</sup>
L		429.5	133.5	438.0	9	31	As unit 7, calcareous quartz graphitic phyllite of biotite grade, again c.f. 78 Janice 01 & 02
L		438.0	160.3	512.6	10	31E1	As units 4 & 8
L		524.0	185.3	608.0	11	31	Calcareous, var. carbonaceous, med. gray, biotite phyllites to phyllitic marbles (locally)

N.B.: No structural log; core stored at Grum Camp