

003795

1 0.0 9.8 1 #

2 OVERBURDEN

3 9.8 79.3 2 3G0

4 & BIOTITE MINOR (3G0 & 9MINOR)(3B6 & BIOTITE) 95:05:TRACE

5 MODERATELY SOFT TO SOFT, MEDIUM GREY TO LOCALLY DARK MEDIUM GREY,

6 PS2 FOLIATED, OVERALL HOMOGENOUS, NONCALCAREOUS PHYLLITE. S2

7 SURFACES DARK MEDIUM STEELY GREY ARE FINE GRAINED, CRENUATED,

8 TYPICAL F THE PHYLLITES. IN DETAIL UNIT SHOWS DARK MEDIUM/

9 LIGHT GREY THIN LAMINATIONS PARALLEL TO S2. DARK LAMINAE ARE S2

10 FOLIA, LIGHT LAMINAE ARE SLIGHTLY HARDER AND MORE GRANULAR QUART-

11 ZOSE LITHONS. LAMINAE SPACING VARIES FROM PLACE TO PLACE IN UNIT,

12 BUT NO SYSTEMATICS READILY NOTICABLE. UNIT CONTAINS VERY MINOR,

13 SLIGHTLY CALCAREOUS, CHLORITE-BIOTITE PHYLLITE. OCCURS AS INTER-

14 BANDS 10-20CM THICK PARALLEL TO S2. THEY ARE PARTICULARLY

15 NOTICABLE AT 44.1, 44.5, 46.9, 47.2, 48.2, AND 50.0M. FROM 52.2

16 TO 54.2M UNIT SLIGHTLY DARKER GREY AND BELOW 54.2 THE LIGHT COLOUR

17 BANDS/LITHONS HAVE A MORE NOTICEABLE GREEN COLOURATION THAN ABOVE

18 CARBONACEOUS BAND. IN LAST 12M OF UNIT, BIOTITE READILY NOTICEABLE

19 IN THE FINE LITHONS/BANDS.

20 TOI-20.4 - MODERATELY BROKEN TO POKER CHIPPY, MINOR RUBBLE AND

21 INCIPIENT GOUGE, NO SIGNIFICANT FAULTS, SLIGHT RUSTY

22 WEATHERING ON FOLIATION TO APPROXIMATELY 15M

23 20.4-29.5 - MODERATELY BROKEN TO INTACT

24 29.5-32.6 - VERY BROKEN AND POKER CHIPPY APPROXIMATELY 80% RECOVERY,

25 NO SIGNIFICANT FAULTS

26 32.6-46.3 - MODERATELY BROKEN, FAIR RECOVERY

27 46.3-50.9 - MODERATELY BROKEN TO RUBBLY, MINOR INDETERMINATE GOUGE

28 NEAR TOP AND BOTTOM, NO SIGNIFICANT FAULTS, RECOVERY

29 OK

30 50.9-55.3 - MODERATELY BROKEN TO INTACT

31 55.3-57.5 - VERY BROKEN WITH SECTIONS OF RUBBLE AND INDETERMINATE

32 GOUGE, APPROXIMATELY 80% RECOVERY WITHOUT ANY SIGNIF-

00 JDBt* GBVM*T

34 !#A!xFOJ x NPOFSB5FMY CSPLF3 5P J35BD5 XJ5I NJ3PS SVCCMF B30

35 INSIGNIFICANT GOUGE

36 999

37 79.3 81.6 3 3D

38 [3G CALC-SILICATY] [3B6 BIO]

39 MODERATELY HARD, BROWN AND GREY TINGED GREEN, THINLY LAMINATED,

40 NONCALCAREOUS, PS2 FOLIATED, BIOTITE-ACTINOLITE(?) - CHLORITE PHYLLITE.

41 CONTAINS INTERLAYERS OF SOFT GREY PHYLLITE AS PER ABOVE UNIT,

42 ESPECIALLY IN TOP METRE AND IN GENERAL RESEMBLES THE HARDER, QUART-

43 ZOSE BIOTITE-ACTINOLITE BANDS OF ADJOINING UNITS.

44 S2 FOLIA ARE BROWN TINGED, DARK GREEN. BANDING SOMEWHAT PATCHY

45 AND IRREGULAR. OVERALL ASPECT OF ROCK IS THAT OF CALC-SILICATE

46 OR MEATTUFFICEOUS INTERCALLATION. UNIT INTACT. UNIT APPROXIMATELY

47 33% BIOTITE BANDS, 33% GREEN BANDS, 33% GREY BANDS, RES IS

48 DISTRIBUTED THROUGHOUT REMAINDER. NO READY NAME FOR THIS UNIT,

49 ALTHOUGH SIMILAR IN SOME RESPECTS TO CNR CALC-SILICATY BUT CONTAINS

50 MORE GREY INTERBANDS. SIMILAR TO 3B BIOTITE BUT IS MORE CONSPICUOUSLY

51 BANDED.

52 999

53 80.6 111.6 4 3G0

54 CALC-SILICATY & BIOTITE MINOR

55 GREENISH GREY, PS2 FOLIATED TO VERY FINELY LITHONED, HOMOGENOUS,

56 MODERATELY SOFT TO MODERATELY HARD, THICKLY LAMINATED TO THINLY

57 BANDED PARALLEL TO S2, OVERALL HOMOGENOUS, NONCALCAREOUS PHYLLITE.

58 S2 SURFACES ARE DARK, MEDIUM, STEELY GREY, LOCALLY WITH SLIGHT

59 GREEN TINGE AND LOCALLY WITH A SLIGHT BROWN TINGE. IN DETAIL,
60 CONSISTS OF SOFT GREY PHYLLITE BANDS INTERLAYERED WITH HARDER,
61 COARSER, GRANULAR, LIGHT GREENISH GREY, QUARTZ-ACTINOLITE-&BIOTITE
62 BANDS. BIOTITE OCCURS SPORADICALLY THROUGHOUT UNIT AND BECOMES
63 INCREASINGLY OBVIOUS DOWNHOLE. OVERALL UNIT IS SIMILAR TO 3G
64 WITH COARSER SPECKLED GREEN BANDS SEEN IN DDH A-7.
65 TOI-110 - CORE IS MODERATELY BROKEN TO INTACT
66 110-110.4 - SANDY GOUGE WITH MINOR RUBBLE CORE?
67 110.4-EOI - MODERATELY BROKEN TO INTACT
68 UNIT OVERALL SIMILAR TO UNIT 2, BUT SELL CONSPICUOUS, DARK, LIGHT
69 INTERLAMINATED HTAN UNIT 2 ABOVE 50M. PROBABLY DUE TO GREEN
70 MINERAL DEVELOPED IN BANDS IN THIS UNIT (UNIT\$) FROM 95M ON DOWN
71 IS POSSIBLE RELICT ANDALUSITE PROPHS NOW DARK MOTTLING TRANSITIONAL
72 TO ANGULAR EUHEDRAL PSEUDOMORPHS. CHECK THIN SECTIONS.
73 999
74 111.6 121.5 5
75
76 MODERATELY SOFT TO MODERATELY HARD, THINLY INTERBANDED/THICKLY
77 LAMINATED BROWNISH GREEN AND DARK/MEDIUM GREY, NONCALCAREOUS,
78 OVERALL HOMOGENOUS, PS2 FOLIATED PHYLLITE. VERY SIMILAR TO LAST
79 UNIT ONLY BIOTITE IS MORE CONSISTENTLY OBVIOUS IN GRANULAR BANDS
80 AND GRANULAR BANDS SEEM COARSER, PROBABLY JUST DUE TO MORE
81 RECRYSTALLIZATION. UNIT APPROXIMATELY 30-40% GREENISH GRANULAR BANDS.
82 INTACT TO MODERATELY BROKEN, NO SIGNIFICANT FAULTS, RECOVERY OK.
83 999
84 121.5 126.5 6 3D
85
86 MODERATELY HARD TO MODERATELY SOFT, GREEN, GREY AND BROWN LAMINAE
87 TO THIN BANDED, NONCALCAREOUS, CHLORITE-BIOTITE PHYLLITE. UNIT
88 RESEMBLES UNIT 3. CONSISTS O 1-5MM BROWN BANDS PARALLEL S2
89 SEPARATING 1-15MM GREEN BANDS WITH MINOR GREY INTERBANDING. OVERALL
90 60% GREEN, 30% BROWN, 10% GREY. RESEMBLES AJOINING UNITS WITH LESS
91 ABUNDANT GREY INTERVALS. RESEMBLES CNR CALC-SILICATE, BUT MORE
92 BANDED. METATUFF? UNIT INTACT.
93 999
94 126.5 175.2 7 3G0
95 CALC-SILICATY BIOTITE->3G9 &BIOTITE MINOR DOWNWARD
96 UNIT HARD TO MODERATELY SOFT, THICK LAMINAE TO THIN BANDED, GREEN,
97 GREY, AND SLIGHTLY BROWNISH, PS2 FOLIATE, NONCALCAREOUS PHYLLITE.
98 UNIT HAS THIN INTERBANDING GREY PHYLLITE WITH GREENISH GREY AND
99 VARIABLY BROWN TINGED COARSER-GRANULAR QUARTZ-ACTINOLITE? (OR
100 CHLORITE) (+ BIOTITE). UNIT APPROXIMATELY 50% GREY BANDS AND
101 50% GREENISH/BROWN BANDS. OVERALL UNIT HOMOGENOUS THIN BANDED BUT
102 SHOWS DOWNWARD INCREAS IN CARBON CONTENT STARTING AT 160M GRADING
103 INTO CARBONACEOUS UNIT AT 178.8M. UNIT IS INTACT WITH SOME
104 MINOR RUBBLE BUT NO SIGNIFICANT FAULTS. BIOTITE LESS OBVIOUS
105 IN LAST 6M OF UNIT AS COLOUR GET DARKER.
106 999
107 175.2 176.8 8 3G91
108 &BIOTITE MINOR (3F9) 80:20
109 MODERATELY HARD TO HARD, DARK GREY, PS2 FOLIATED, NONCALCAREOUS
110 PHYLLITE. INTERLAYERED WITH DARK GREY TO BLACK, VERY FINELY
111 CRYSTALLINE, PS2 FOLIATED CALCITE MARBLE. MINOR BIOTITE AND
112 POSSIBLY ACTINOLITE VISIBLE IN LIGHTER COLOURED BANDS. MINOR
113 PYRITE AND PYRRHOTITE AS DISSEMINATIONS ALONG FOLIATION ADN
114 DISSEMINATED THROUGH SOME QUARTZOSE BANDS.
115 999
116 176.8 206.3 9 3E1
117 (3B46 83 &\$) 99:01
118 MODERATELY HARD TO HARD, DARK GREY TO BLACK TO LOCALLY MEDIUM

119 GREY, PS2 FOLIATED, NONCALCAREOUS IN GENERAL, CARBONACEOUS,
120 SILICEOUS PHYLLITE. CONTAINS MINOR PYRRHOTITE DISSEMINATED ALONG
121 S2, IN FRACTURES AND IN QUARTZOSE BANDS ALONG S2. DOES NOT HAVE
122 WELL DEVELOPED QUARTZ/SULPHIDE BANDING. FIRST METRE OF UNIT PART
123 OF GRADATIONAL COLOURING GOING INTO THIS UNIT AND CONTAINS GREENISH
124 AND BROWNISH INTERBANDS SIMILAR TO LAST UNIT. A FEW CALCITE BANDS
125 BUT ESSENTIALLY NIL IN THIS UNIT. HOWEVER, UNIT DID DISPLAY GOOD
126 CALCITE FLASH. FIRST 2M OF UNIT ESSENTIALLY VEIN QUARTZ AND CALCITE
127 WITH MINOR GOUGE, NO SIGNIFICANT FAULTS AND REMAINDER OF UNIT SEEMS
128 TO BE INTACT. THERE ARE NUMEROUS THIN LIGHT GREENISH BEIGE S_{D46}
129 & MINOR, & MINOR INTERBANDS FROM 5MM TO 10CM THICK. THEY HAVE
130 SHARP CONTACTS PARALLEL TO S2 AND S1. UNIT HAS GOOD POST S2
131 CRENULATION DEVELOPED. TUFF BANDS LARGELY BETWEEN 190.7 - 192.9
132 AND 183-186.3. LOWER CONTACT ALSO A COLOUR GRADATION BUT MORE
133 SHARPLY DEVELOPED THAN THE UPPER. VERY THIN NEARLY MASSIVE
134 PYRRHOTITE OR PYRITE BANDS ALONG S2 LOCALLY. S2 FOLIA ARE SHINE,
135 MICACEOUS, DARK GREY RATHER THAN DULL BLACK. UNIT INTACT (POSSIBLY
136 MISSING PORTION A LITTLE BROKEN?) IN LOWER PORTION WITH NO SIG-
137 NIFICANT FAULTS. LAST 6M INTERBANDS OF BROWN AND GREEN MORE
138 GRANULAR QUARTZOSE LAYERS SIMILAR TO GRANULAR QUARTZOSE LAYERS IN
139 ADJOINING UNITS. POSSIBLE ANDALUSITE INDICATED BY DARK MOTTLING.

140 999

141 206.3 226.8 10 3G0

142 CALC-SILICATE MINOR (3D)

143 MODERATELY HARD TO MODERATELY SOFT, PS2 FOLIATED, SLIGHTLY GREEN
144 TINGED, MEDIUM GREY, VERY THINLY BANDED TO LAMINATED, OVERALL
145 HOMOGENEOUS, NONCALCAREOUS PHYLLITE. CONSISTS OF APPROXIMATELY
146 50% DARK MEDIUM GREY TO MEDIUM GREY, SOFT, MICACEOUS LAMINAE/
147 BANDS PARALLEL TO S2 (AND LOCALLY PRESERVED PARALLEL TO S2) AND
148 50% HARDER, GREENISH MEDIUM GREY, GRANULAR QUARTZ-ACTINOLITE?
149 VERY MINOR BIOTITE BANDS. FROM 206.8 TO 207.6 IS AN INTERLAYERED
150 UNIT OF GREEN AND BROWN PATCHILY BANDED CHLORITE/ACTINOLITE/BIOTITE
151 PHYLLITE, NOT SURE IF METAVOLC INTERBAND OR CALC-SILICATE INTERBAND,
152 SIMILAR TO ABOVE 3D INTERBANDS. MINOR ANDALUSITE NOTED AT
153 212M AND POSSIBLY BELOW.

154 UNIT IS MODERATELY BROKEN TO LOCALLY RUBBLY, TO 226M. ONLY
155 SIGNIFICANT FAULT IS AT END OF UNIT. 226.0-226.8 EQUALS RUBBLE.

156 999

157 226.8 242.1 11 1C0

158 & 88 (1C48)

159 BROWNISH GREY, THINLY PS2 LAMINATED, NONCALCAREOUS, QUARTZ/BIOTITE/
160 STAUROLITE/ANDALUSITE SCHIST WITH INTERVALS UP TO 3M LONG OF GREEN
161 CHLORITE RICH RETROGRADED SCHISTS. RELATIVELY FRESH SCHIST HAS
162 BROWN, WHITE AND GREENISH GREY LAMINAE PARALLEL TO S2 WITH YELLOWISH
163 STAUROLITE CRYSTALS 1MM ACROSS. DARK GREENISH GREY RELIC
164 ANDALUSITE CLASTS POSSIBLY SOME FRESH BIOTITE/ANDALUSITE CLOTS
165 REMAINING. GREENISH GREY BANDS APPEAR TO BE BIOTITE RETROGRADED
166 TO CHLORITE, AND SIMILAR TO LONGER RETROGRADED INTERVALS. INTERVALS
167 OF GREEN RETROGRADED AND BROWNISH SCHIST BROKEN OUT IN PREVIOUS
168 LOG. TOP OF UNIT IN RUBBLE AND MINOR FAULT BRECCIA. REMAINDER
169 OF UNIT IS MODERATELY BROKEN TO INTACT. MINOR FAULT AT 229.8 AT
170 45 DEGREES TO CORE AXIS. IN UPPER 4M THERE ARE DIVERSELY ORIENTED
171 SLICKENSIDED CHLORITE FOLIATION SURFACES, TOP OF UNIT IS UNCERTAIN
172 AS UNIT AS 226.2-227.4 HAS 3/10M RECOVERED, APPEARS TO BE MAJOR
173 FAULT AT TOP OF UNIT AS SUGGESTED BY POOR RECOVERY, SLICKS, MINOR
174 FAULT BRECCIA AND ABRUPT JUMP IN METAMORPHIC GRADE. ANOTHER FAULT
175 IN LAST 1 1/2M OF UNIT, 45-25 DEGREES TO CORE AXIS AND HAS DIVERSELY

176 ORIENTED SLICKENSIDES AND THERE IS RELATIONSHIP BETWEEN FAULTING
177 AND CHLORITE RETROGRADING. SOME GREEN ROCKS MAY BE METABASITE
178 (SEE P. NAGI LOG FOR INTERVALS)

179 999
180 242.1 259.5 12 1CD
181 &4 &8
182 HOMOGENOUS, GREENISH GREY BROWN, NONCALCAREOUS, MODERATELY HARD,
183 BIOTITE-MUSCOVITE-QUARTZ-STAUROLITE-ANDALUSITE-GARNET-CHLORITE-
184 SCHIST, PS2 FOLIATED WITH PROMINENT COLOUR LAMINATION PARALLEL
185 TO S2 CONSISTING OF BROWN, GREENISH GREY AND OFF WHITE BANDS.
186 CONTAINS MINOR SCATTERED DARK GREEN CLOTS AFTER ANDALUSITE?
187 STAUROLITE IS WIDESPREAD AS 1 X 3MM RECTANGULAR GRAINS. MINOR
188 GARNET 1CM DIAMETER DARKISH GRAINS CONCENTRATED IN THIN BANDS.
189 UNIT SIMILAR TO LESS ALTERED PORTION OF ABOVE UNIT. MINOR PINK
190 ANDALUSITE IN VEINS THROUGHOUT UNIT. INTACT.
191 999
192 259.5 262.7 131CD48
193
194 GREENISH GREY, CHLORITE-MUSCOVITE-BIOTITE-STAUROLITE-ANDALUSITE-
195 RETROGRADE SCHIST. HOMOGENOUS, PS2 FOLIATED, MODERATELY SOFT TO
196 MODERATELY HARD, NONCALCAREOUS, FEW PERCENT DARK GREEN CHLORITE
197 SPOTS ON CUT SURFACE AFTER ANDALUSITE CLOTS? MINOR FRESH
198 ANDALUSITE AND BIOTITE PRESERVED/GROWING ANEW? TOP 1/2 RUBBLY
199 TO INCIPIENT GOUGE/ BOTTOM IS INTACT. NO SIGNIFICANT FAULTS.
200 999
201 262.7 277.8 14 1CD
202 &48 [1CD?]
203 BROWNISH, GREY GREEN, CHLORITE-BIOTITE-STAUROLITE-MUSCOVITE-
204 GARNET-ANDALUSITE? SCHIST SIMILAR TO ABOVE UNIT BUT MORE BIOTITE
205 PRESERVED AND BETTER QUARTZ-FELDSPAR BANDING, BASICALLY SIMILAR
206 TO UNIT 12. [SINCE UNCERTAIN WHERE TO DRAW 1CD BOUNDARY SINCE
207 UNIT CONTAINS BOTH QUARTZ-FELDSPAR BANDING AND FRESH AND RELICT
208 ANDALUSITE CLOTS AND CLOTS BETTER DEVELOPED THAN UPHOLE]
209 999
210 277.8 282.5 1514D48
211 [1CD&4 &8] 90:10
212 GREENISH GREY, CHLORITE-MUSCOVITE-MINOR BIOTITE PHYLLITE WITH
213 SHORT INTERVALS OF BIOTITE, MUSCOVITE, STAUROLITE, ANDALUSITE
214 SCHIST. GREENISH ROCK IS ALTERED SCHIST (RETROGRADED AS SHOWN BY
215 RETROGRADED ANDALUSITE CLOTS TEXTURE AND GRADATIONAL
216 RELATIONSHIPS WITH GOOD SCHIST) BASICALLY INTACT.
217 999
218 282.5 304.8 16 1CD
219 &4 &8
220 GREENISH GREY-BROWN, BIOTITE-MUSCOVITE-CHLORITE-STAUROLITE-GARNET
221 ANDALUSITE? SCHIST, NONCALCAREOUS, PS2 FOLIATED, MODERATELY
222 DEVELOPED TO POORLY DEVELOPED QUARTZ-FELDSPAR BANDING. SOME GOOD
223 FRESH ANDALUSITE CLOTS WITH BIOTITE SELVEDGES. CONTAINS SEVERAL
224 PERCENT DARK GREEN CHLORITE SPOTS AFTER ANDALUSITE WHICH IS ONLY
225 LOCALLY PRESERVED AS ANDALUSITE. THESE SPOTS SEEM MORE ABUNDANT
226 DOWN HOLE IN THIS UNIT, APPROXIMATELY 10 SPOTS PRE 10CM OF CORE.
227 S2 FOLIATION LOCALLY BROWN TINGER, SILVERY, STEELY GREY. UNIT INTACT.
228 999
229 EOH
230 999