81.2 TAN CLAIMS — LORNEX DRILLING. 826826

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
to 16.0	CASING							
16.0-28.0	Dacite to Rhyodacite	lt grn	fine	Likely greatly silicified since no primary textures		?silic, sericite	pxas mm. cubes, granular w. Q, along irreg. stringers at 150° c.a. - tr cpy as at 19.5 - overall 2% py	V. hard - vague bleached zones extend out from some fractures
28.0-31.0	? Dacite to andesite	lt brown grey		Amygdaloidal to variolitic		v. fine sericite		Softer, less silicified - carb. veins 90° c.a.
31.0-38.5	Dacite	lt green	fine				py 1-2% very finely diss., in sparse stringers - discrete cubes 35.5-38.5	Slight differences in shade of green likely reflect differences in silicification 31.0-31.5: prob fault/ shear - minor ct ladder veins
38.5-40.0	? Dacite to Andesite	lt brown grey	fine	? Variolitic			Irregular clots to stringers of granular pyrite as well as pyrite very finely disseminated throughout	Cross cut by irregular carbonate stringers
40.0-48.0	Dacite to Rhyodacite	lt brown green	fine			Well silicified, very fine sericite	py as before	
48.0-48.3	? Dacite to Andesite	lt brown grey		Very fine flattened vesicles				As before
48.3-51.5	Rhyodacite to rhyolite	white to lt green		No primary textures; more coarsely crystalline in places; locally conchoidal fracture		Extremely silicified; perhaps bleached; very fine sericite	Py in granular clots and stringers to 1% 50.5-51.5: more coarsely crystalline granular py veinlets 115° c.a.	49-50 dacite: 1 grey green, fine sericite Gradational contact with below

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
51.5-65.0	Andesite	medium green	medium	Well preserved, flattened amygdules, filled with chlorite; some calcite filled varioles		Soft chloritized in places	Pyrite increased in bands + c.a. to 30% very finely diss; sparse mm cubes + along coarsely granular stringers	Distinct from previous 53.5-56.0: prominent calcite varioles + blotchy alteration +56.5: increased sericite gives yellowtone 57.5: rhyodacite, light green, very hard, sharp edged against andesite
65.0-79.5	Dacites to Rhyodacites	Variable green				Variably well silicified sericitized	py 2% as coarse stringers, fine disseminations	66.0-66.5, 71.6-72.0: distinctive mottled texture suggests flattened varioles or reduction spots
79.5-81.3	Rhyolite to Rhyodacite	white		All textures gone		Silicified, sericitized		
81.3-83.5	? Dacite to Andesite	lt brown grey				Finely sericitic		
83.5-90.5	Dacites to Rhyodacites to Rhyolites						Py as before 89.0-90.5: c. crystalline anhedral cpy alone and in disconinuous veinlets with py, 1% cpy over section	As before 85.0-85.3: rubble breccia more like volcanic sediments than agglomerate, sub-angular white silicified rhyodacite against more sericitized yellow-grey matrix; in places matrix appears to have py filled amygdules 90.5-93.0: ?andesite: lt brown grey, finely crystalline, relatively soft; mm - calcite filled vesicles

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
93.0-102.0	Rhyolite	lt green	fine	None		Well-silicified	Py as before 1-5%	
102.0-112.0	Rhyolite	white to lt green				- bleached zones extend out from fractures		As before but white to lt green increased silica and sericite producing conchoidal fractures
112.0 - 117.0	Andesite	medium green to green grey		Flattned chlorite-filled amygdules - minor Bx zones to 5cm.		Sericitized	Py finely disseminated and as coarser crystalline clots; 1% overall	
117.0 - 120.0	Rhyolite	white		Conchoidal fracture no primary textures		Intensely silicified,? bleached		Very hard
120.0-140.0	Rhyodacite to dacite	variable lt green		No primary textures		Sericitized	Py as before	Vague bleached areas extend out from fractures - in places irregular calcite veinlets - sparse serpentine in slickensided surfaces
140.0-143.5	Dacite ? andesite	White & medium green				Strongly silicified		Mottled, very distinctive
143.5-145.5	Dacite	lt brown grey	fine	Vague calcite vesicle fills (?varioles)		Highly sericitized	Very fine py cubes	abnt. irregular calcite veins 115° c.a.
145.5-159.0	Dacite? andesite			? Vague banded texture (? flow bands) (?sheers)		Fine sericite		Return to distinctive mottled texture as above

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
159.0–163.5	? Dacite or Andesite	lt brown grey	fine	calcite, chlorite-filled amygdules, slightly flattened - minor coarse chlorite with calcite + py			py in discontinuous stringers - tr cpy in vague sheared zones	
163.5–164.0							5% c. xline py	?Q-carb vein or shear or recrystallized country rock
164.0–176.8	Dacites to rhyodacites	light-medium green	fine	sparse calcite-filled amygdules		Highly silicified + sericitized	Calcite ± Q ± py in flattened cubes along discontinuous stringers - py also as discrete cubes in ground mass	
176.8–189.0	Rhyodacites to rhyolites	white to lt grey		sparse bands with py ± calcite filled amygdules		Intensely silicified: patchy at top, more pervasive downward	to 179.5: 2-3% py, tr. cpy 177.0-177.5: 1-2% coarsely crystalline cpy, finely anhedral py and sub-mm cubes in stringers with silica envelopes - local 2-5 cm thick zones 10-15% c. xline py with 1-5mm py cubes	Cross cut by abnt gash-type veins
189.0–200.0	Dacites to Rhyodacites	lt green				Well silicified	Py 2-3% overall	Irregular discontinuous Q veins in same sections
200.0–205.5	Rhyolite to Rhyodacite	lt grey to distinctive mottled patchy white-green				Extensively silicified		200-200.2: ? rubble breccia, sheared
205.5–211.0	Dacites to Rhyodacites	med.grn (darker than previous)				Well silicified; very fine sericite	py 1%, for disseminations throughout	Irregular Q veinlets

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
211.0-214.0	? Dacite to andesite	lt brown grey		Marked calcite amygdules			Py 1%	Sparse discontinuous calcite veins
214.0-224.5	Dacites to Rhyodacites	pred.med. green plus lt grey to white		Calcite filled amygdules in dacites		Light grey to white intensely silicified		More heterogeneous than previous - intensely silicified zones interspersed with amygdular dacites
224.5-230.5	? Dacites to Andesites	lt brown grey		Calcite amygdules "granular" texture suggests maybe fine lapilli to ash tuff; vague banding			1% pyrite: fine disseminations	
230.5-240.5	Rhyolite	white		Vague mottles no primary textures		Extreme silicification	1-2% py very fine disseminated and in discontinuous veinlets - sparse tr cpy in wispy stringers often with pyrite	
240.5-246.0	Dacite	mottled lt green to grey						Mottled pattern suggests altered Fp phenocrysts or amygdules - irregular calcite veins
246.0-249.0	Dacite to andesite	lt brown grey	very fine	Sub-mm flattened chlorite amygdules, mm size calcite amygdules - vague banding		Silicification		Very hard
249.0-257.2	Dacite	mottled lt green to grey						Return to dacite porphyry as before

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
257.0- 272.0	Pred. Dacites	lt green to lt brown green					py very fine disseminated in matrix	Heterogenous without strong contrasts - lighter green? coarser crystalline or altered more silicified areas - intervals of well defined rubble breccias (secondary) with sharp-edge fragment borders against cement to volcanic breccias with poorly defined diffuse fragment to matrix boundaries: fragments homogeneous, slightly rounded 257.2-260.0: very hetero-geneous fragments from chlorite amygdular andesitic dacites to rhyolites: complete gradation 10 cm to sub mm, some frags. altered with isopachous green rims around whiter harder centre - appears to be combina-tion of tectonic breccia with calcite ± Q cross cutting a synvolcanic breccia 266.0-.3: rhyolite: white mottled,? porphyritic - sheared 70° c.a. sericitized 268.0-.2: rhyodacite tr dacite, mottled lt. green to white, porphyritic; v. fn. flakes of sericite

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
272.0-275.0	Dacite	slightly mottled lt green to white to lt. grey		No primary texture			Py 1-2%	273.5: synvolcanic breccia: 15% py in matrix, tr. cpy
275.0-302.7	Andesitic Dacitic	lt brown grey		Abnt v.fn. chlorite amygdules lesser calcite - sporadic poorly defined synvolcanic breccia			V. coarse py to 3% over short sections, overall 1%	Relatively soft compared to any of previous core. - sporadic chlorite veinlets 301.4-.6 coarsely granular calcite vein
302.7-321.2	Dacite Porphyry	medium green	medium					
321.2-335.0	Andesite to andesitic dacite	medium brown grey		Sparse chlorite amygdules			1% py	As before but with common Epidote; - vague BxR likely tectonic with calcite in minor zones 334.0-335.0 synvolcanic breccia with 2-3% fn. crystalline py; fragment-matrix borders indistinct.
335.0-347.2	Dacite Porphyry							
347.2-354.0	Dacite to andesitic Dacite	medium lt green		- sparse chlorite amygdules - minor synvolcanic breccia zones 347.2-348.6: heterogeneous mottled, dark green to grey; py 2-3%			py 1%	

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
354.0–364.0	Dacite	lt green to white to grey-green		Irregular patchy white 354–356 distinctly mottled, swirled, very dark green chloritic patches, vaguely porphyritic		Silicification	Py 1–2%	
364.0–377.5	Andesite to dacitic Andesite			Very fine chlorite amygdules - vague diffuse bands, high angle to c.a.		?sericite, very finely disseminated	Py v.fn disseminated, rare as anhedral more coarsely crystalline clots	
377.5–378.0	Dacite	lt. med. green		Vague swirls (? soft sediment deformation)				- abundant calcite fractures 70° c.a.
378.0–383.0	Andesite to andesitic Dacite	Patchy lt med. grey to green		Vaguely banded to synvolcanic breccia with poor distinction between fragments & matrix			Py to 3%, coarsely anhedral in matrix	
383.0–385.0	Rhyolite	white				bleached, silicified, very hard		abnt. v. fn. fractures suggest fault proximity
385.0–397.0	Dacites to Rhyodacite	variably lt green		Few textures visible but porphyritic in sections 394–397 lt. grey, with vague swirls subparallel c.a.		? patchy silicification	Py 20%	Sheared fabric one interval
397.0 414.0	Dacite	mottled		Distinct from anything else in hole: dark green chloritic to white, very sharply defined, breccias with lapilli size fragments - rarely Fp porphyritic - ?soft sediment 414.0 E.O.H.		Cross cut by zones of bleaching, but not silicified - local sericite in breccia		

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