

1974

July

20

## Quatse

Thin cdy without rain AM, mostly clear PM.

Drive thru quarry & along old logging rd thru alders to small clogs, where parked. Hike in along the rd. which is in poor shape. Looks like a truck has been in this season.

pace 0 % of Q. ls. on rd., typical grey. ~~No att.~~  $\rho$  025°40W

300 " " dk. grey to blk Q ls. in rd cut, 60' long. Large meadow across Quatse R.

980-1030 " " " " " "

1700 Old brj over Quatse R. at outlet fr Lk. An area here has been bulldozed in recent years. Cl. post of Quatse cls., loc'd by Claussen. TX3-5 of Quatse Lk., -6 of brj. remains & hill to N of Lk.

Old trestle runs thru swamp N of Quatse R, so had to turn back. circle round E end of lake. TX3-7 of E end fr small hill in logged area.

TX3-8 of CF-BBV at end of rd. on SE side.

% aa in rd. - prob. massive Bnz - sp.

" ab at " jc - same

" ac - small quarries in massive Bnz, here dense to f/g.

Logging rd. ends in logged area, so cut thru brush to old rd. at pace 0.

KX2-8-14 - Port Hardy & Hardy Bay.

July 26 KX15 of close-up of hard cgl. bed at SW cr. of Thunderbird Inn  
16-18 of gen'l view over Port Hardy fr bulldozed hump S of Inn.  
19-20 " view N fr wharf, nc. the rugged id.

PROPERTY FILE

92L286.

July  
23

Tue. Mostly <sup>partly</sup> /cast AM, clng. PM.

Drove to O'Connors engineer's office, but a cook told me he flew to Mahetta R. yy.  
Called at Ranger Sta., & the young fellow in charge drew Quatse Lk rds on my map.

Alt. rdg. -120' in hotel rm 10.30 AM, -200' at approx. MSL 10.50  
" " +190' at North Island camp, so cl. 390'. Intro myself to  
watchman, who was expecting Tom Kirk that eve.

Hike out ~~to~~ <sup>at 2 PM</sup> bad rd. to Caledonia.

Alt. rdg +300' at old Caledonia camp, where TX-1.

" " +510' in ck at old brj. at 2.45. Ls is exp. at NW end of brj, & qz, sp. 80  
at SE end, with massive (Kmn?) <sup>andesite</sup> beyond. Ck flows 215° here

Alt 100' to NW is a 70' long trench, ⊥ contour, exp. Q dol. at face.

A DD spur rd. nrly intersects ck. 100' above old brj. Massive <sup>blue-grn. andesite</sup> (Kmn) is exp. nr ck.

Hole<sup>2</sup> (nr ck) is vert. Hole 3 plunges 342° 65'. Hole 4 at rd. intersecn is vert. -97'

Nrly 200' NW of ck an open cut exps Q cut by massive andesite.

Spur above has Holes 5 & 6; alt. rdg. 620' at #5, where massive andesite exp.

" at alt. rdg. 810' has Hole 11 & exps. dk Q. ls.

Alt. rdg 870' at 4.10 PM where abt 10" of massive mag, striking sub-ll with contour &  
dipping abt 20° twd Quatse Lk, occurs in skarned andesite in grey ls.

o/c ag climb up thru bush to summit where alt. rdg. 940' at 4.25, on alt. dia.

Alt. rdg 310' at 5.00 PM back at old camp. 40 mins wk. fr here to Rover or new camp.

" " -160' in room at 8.05 PM

Fr. New camp it is 4 mi. to hwy, at a pt 1 mi on Coal Hbr side of Lamonte Ck.

During eve identify blox of L. Cret. sed. on gully side of rd. N of plaza, then climb  
up next rd. to N & identify L. Cret. in place opp. large tanks & along N-S rd. back  
almost to N plaza rd.

1974  
July

24 Wed. Mostly cdy with occas. drizzle. Back to N. Id. M.L. camp, where Tom Kirk arr as I was eating lunch.

Alt. rdg. -190' in rm at 11 AM, so 270' low.

" " +100' at N. Id. camp at 2.30 PM, so abt 300' low.

Trace fr Germundsen's map, then check it in fd.

Area X1 - overlying sh in of ands at 1st, dipping downslope, then mostly skarn. Ls abt as shown, but sil. in part. No proven K, so may be all ia. +X4-2 of Q Lk & camp. Since there is good K to W & NW, the ls. is prob. a K interbed. It is very dirty with frags.

Area X2 - good Q Ls. with nr-flat P, struct. overlain by skarn etc. mag lenses. This skarn & the bit which precedes is prob. alt. ia.

Sp. 81 fr Bnz-labelled % on rd. out.

Germundsen's mapping appears generally acceptable, but he did not catch all %, & he prob. was unaware of ls. lenses in K & ia. in Q. Non-fit ls. %s should be re-examined, & the whole Q-PB zone traced thru.

In AM identify L. Cret beds stg. 1/2-way down walk fr Thunderbird to shopping plaza, & in eve identify them on N side of S flanking rd. Not definitely identifiable on S side until cut-back for 1st bldg: a coherent bed of brn shale abt 5" th. is underlain by loose gvl. beds & overlain by a peaty horizon which in turn is overlain by reddish-brn gravelly clay & clayey gvl. This raises the questions: Is much more of the loose brn gvl. decayed L. Cret.? Is the peaty layer a fossil soil hor? Are the beds below the peaty layer really Tertiary, with only local induration? In the cuts on the N. Id. M.L. property the lower beds seemed well indurated, & poss. could be Tertiary?



1974

Aug.

6

Clear & warm. Back to N. Id. M.L. camp, take Charlie down to look at rd work nr stack cat, & back, then park in gul. pit & wh down lower <sup>cut</sup> rd. Lunch at Quatse Lk, where KX-19 of W end.

KX-20 & 21 of views to N fr low rj. K.G.'s % is a mixture of Bnz & K b/drs.

pt of summit of small hill - no %. May be % abt 300' to SSE.

%cam dk grn ign, sp 92, at base of N side is overlain by coarse  $\nabla$ , ct. appearing to dip SE 5-10°, & this by massive <sup>grn ish-</sup> grey volc., sp. 93. Much the same on S side.

%cam coarse volc.  $\nabla$  at SE <sup>side</sup> ~~end~~ grading to massive volc., both dk grn on fresh surf; frags are porph.

%cam siliceous-looking volc., varying fr dk to lyt grn & med grey - sp. 94.

%cam volc. cgl. or  $\nabla$  with polyphase frags (1 of coarse hb. <sup>porph.</sup> ~~frag.~~); mostly porph. on fresh surf; grey & felsic at E end, but mostly dk grn & mafic-looking.

1974  
Aug.  
9

Clear & hot. To N. Id. M.L. camp to fin tracing Caledonia sheet, then drive toward Caledonia, but stopped by deep mud puddle at edge of timber. Walk in fr. there. Alt. rdg 315' at old camp at 3.45.

" " 615' " Caledonia adit at 4.40; 5' above ch. Adit & ch are in a sheared granitic rock which is reddened along fract<sup>s</sup> & red aplite dykes, sp. 82

Aug. 12 Clear & <sup>very</sup> hot, with AM ground fog. Alt. rdg 40' in rm at 11 AM, so 40' low. Up NIML W cat rd.

% az Alt rdg 620' at 1.30 PM. Dio. porph on N,  $f^{-1/2}$  hke on S - poss. met. K.

11-ff  
6a amyg. k - at least at top. 118° to camp, 144° to tip of pen<sup>a</sup> on S shore of Quatse Lk.

Alt. rdg 680' at 2.30

" " 55' in rm at 9.15 PM, so 25' low

Aug. 14 Program:-

Drive to edge of timber, take tape, & hike to DDH-15 on Caledonia.

Lay out taped line fr DDH 15, & triangulate adit mkr. tree.

Tie a pt. at adit ptl. to mkr. tree & map adit

Tie ch. %c to mkr. tree & map up ch.

Map fr. DDH's within plan limits.

} 1" = 40'

Ctu mapping up ch. at least to old bij.

Aug. 15 '74

The property is largely underlain by a gneiss of Karamtsoo-like andesite & white to grey ls. Baranga tuff & D's occur to the S in the E part of the property, but have not as far been found included in the mass. One small ls. exposure is exceedingly dirty with chips of gneiss rock & appears to be a lens in Karamtsoo. This is in a trunk above the Shuff, passing into a mass to the E. There is a small exposure of above carrying heavy mass in the top of the cut at where it crosses the bank, but no other exposure anywhere near. The land rises up to a 2nd level, & the 2nd level of ls. extends a few hundred feet ESE from the cut out along the base & upper slopes of small exposure of andesite occurs just back in the mass, N of the ls. The mass was cut for 0' to the E & SE, as far as an old trail, but none was found. This trail was partly surf, & part pre-ditch the logging, where did it lead - to a small prospect? Tentatively, it looks like the vein was reported by faulting along the 2nd level & the mass, with surface on the S. The above may be added to make a fault. Near Calcedonia sh., at a mile to the WNW, things get more red, later. Random lenses of ls. are included in andesite & above in a ground the old w/ps, & the andesite is rounded by transport of a granitic rock. Type B compare mapping at 1" = 40' outlined one ls. lens trending 015° completely over. An andesite or andesitic to above. The S end of the lens was about only 1/2 mi. to the E, but actual mapping did not extend that far. White ls. occurs in the face of a long bench, otherwise in other 160' NW of the 1st lens, with no other rock exp. of fault 35' to the NW ls. occurs as near as main of SW of main or low andesite in the approach to a rise. The andesite in the rise approach is 310°. The vein cannot be explained by stratigraphy. Complex block faulting is seen, but exposure suggests that the ls. too has necessarily increased. Any andesite in a nose or low andesite pattern. The Quatze is then a gneiss, over purple with many pieces missing, due to the mass of the mass & Calcedonia sh. There appears to be increasing complexity of strata & nature of weathering Hill to Calcedonia sh.

PROPERTY FILE

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