ACME CLAIMS

GEOLOGIC NOTES

P. DEAN

MAY 1971

8b - medium to dark green massive basaltic varieties including tuffs, massive amyg flows, pillows & pyroclastic types

8a - pale green, greenish brown, light grey massive to thin bedded argillaceous to tuffaceous chert, weathers off white. Locally brick-red due to hematite, locally brecciated

19 May 1971

1. argillaceous chert 2" to 4" qtz-rich beds alternate with thinner argillaceous beds Pyrol. & lim. on fractures in places. Strike 350 dip 35 S.

2. massive cream to tan colored chert

3. drk green massive basalt

4. massive cream colored chert abundant limonite in vugs & fractures

5. serpentine. strongly sheared.

6. drk grn massive basalt. Dike of granodiorite ~30 FT thick. strike ~60 occasional grain of pyrth. dip ~60 S in basalt. Qtz viens.

7. pale green, coarsely crystalline; strongly serpentinized gabbro or pyroxenite.

8 drk green, dense basalt abundant limonite in fractures diss. pyrr. common

9 pale grey chert ? (Probably bleached basalt) strong vein pointing trending 160. Abundant diss pyrr.

10 Same as 7. Most is strongly serpentinized as per sample 7, some finer grained & Fresher as per sample 10

11 massive argillaceous chert

12 tuffaceous chert? strike 80° dip 30° E
color drk grey weathers white

20 May 1971

13 thinly laminated argillaceous chert. drk grey. (siliceous or argillite)
argillaceous hornfels?
strike ~270 dip ~45 (based on topography of outcrops.)

14 slate or shale. Bedding indistinct
av. strike 122°, dip 65° (based on contact with 20 FT thick LS lens (Sample 14)). In places a strong lineation (small folds) plunges 50° to ~170. Abundant small veins & pods of lim-stained qtz.

more likely 8a with lens of 8b

17 hornfelsed unit 2 with ~~greenstone~~ lens. elongate amygdules & abundant pyrr. in ~~greenstone~~ lens. ~~Lot of~~ Hornfels with alternating pale green & purplish composition layering.
st 90 dip ~70°

19 aplite dikes strikes 35°
dip 65°N to N/O FT WIDE

Close to contact with granodiorite

Unit 2 → ~~8b~~ is altered to drk grey, strongly pyritized hornfels with complex flow banding. Close to contact Granodiorite contains large (to >00 FT) xenoliths of rusty-weathering basalt.

20 hornfels - banded greenish/purplish rock. weathers white. Numerous tight isoclinal folds lying in plane of banding & dipping ~90°
Like 17 - may be unit 2 or unit 8a. Strike 152 dip 75°S

21 MAY

21 qtz-rich schist (almost phyllite) ~~with limy bands~~. seems to strike ~280, dip 80S. Subouterop
→ glacial erratic ←

22 dense dark grn serpentine with relict amphibole? xls & ~~grey metallic mineral (mag.?)~~ magnetite

23 serpentenized gabbro - note progressive alteration toward margins of sample

24 shear zone in gabbro bearing chalcopyrite, bornite, & abundant malachite in 2-4" wide qtz vein. Vein strikes 280, dips 60 N & appears to pinch out in a few feet.

25 qtz-sericite schist sub outcrops? ~~trend/outcrops @ 120~~ weathers into large angular blocks bounded by joint faces Comp ~ 15% qtz 25% muscovite

probably glacial erratic

22 May L40W-5N — deep glacial gravels.

L40 - 1S - start of 8b outcrop

L32 - 6S - start of chart outcrop (well bedded ½" → 4" laminae)

L28W - 11S - chart grading into tuff. 8b. outcrop 50FT W

L28W - ~14S - chart - poorly bedded, tuffaceous. Breaks in to chips.

L28W - 15S - gully (=contact?)

L28W - 16S - start of 8b outcrop

L24W - 16S-16S - chert - massive

17S - start of 8b outcrop

L0 - 23S - chert - massive, splintery fracture

L8W 21S chert - as above

L8W 28S - 8b

23 May. 26 finely laminated dk. grey slate with abundant pyrite Strike 120 dip 30 S

27 hornfelsed slate - still with good lamination strikes 150, dips ~80 west Occasional minor folds with axial plane in plane of cleavage & axis dipping to S.

claim # 95574 - 200 FT into valley below 9 outcrop (toward Howard Ld)

25 May

L 24W 6S 50 FT SW 10 FT x 10 FT

impure argillaceous massive buff chert. Occasional qtz veins & blobs with minor lim. stain.

L 28W 10S starts 50 FT W 200 FT L

well bedded argillaceous chert qtz rich laminae up to 4" thick, thinner argillaceous beds in between. Abundant pyrolusite film on fracture surfaces in places. strike 170/ dip 50 S. Grades into more tuffaceous, massive chert at top. Jointing at 40 / 80 W, & poorer jointing at 114/45 N

100 FT to 180 (S): 5 FT x 10 FT

step of massive chert with rare qtz vein (to 12" thick) trending 110/

50FT WIDE

L32W 11+50S 150FT E 200FT. W.

ocp trends 100. Bold ocp of massive creamy colored chert. Contains abundant minute vugs with limonite stain No pyrolousite. Strong jointing at 35/80W. In places seems to grade into sugary appearing nearly pure qtz.

L32W21S 50FT wide

nose of large ridge of dense, massive, fine-grained dk green volcanic (8b) ocp ends abruptly on trend trending up hillside at ~100°

220 FT SW (1) of L32W 22S

ocp of serpentine trending 120 strongly sheared & slickensided at 120/90. occasional multi layered chalcedony/qtz veins at ~45/80E Drusy surfaces in veins lined with calcite &/or qtz xls.

L40 23S 200FT E 1 10FT x 10FT

serpentine

L40 20S 50FT E 1

massive cream chert, limonite specks

L40 24S to 50FT E 1

impure tuff. chert strong jointing at 150/80NE

L40 26S 20FT W

large knob (100FT X 100FT)
of massive drk green
volcanic. jointing 180/90
& 120/80 NE

L40 29S 20FT W 50FT X 100 FT

drk green volcanic

L40 26.50S 50FT E 100 X 50

ocp trending ⊥ to line
N most corner - granitic
like pale grey leucocratic
gd with ~ 5% biotite
attitude of subcrop ~ 170
Remainder of outcp is drk grn to
grey-green volcanic with strong jointing &
occasional qtz veins at
125/70 <, less perfect jointing at
160/80 E

L line 40 lies in a trench-like drift filled gulch that may be a fault.

L40 26-50S 150FT E

above 8b volc grades over a few feet into very fuff. chert with poor bedding str 100 / dip ~45 SW. Chert appears gritty on weathered surfaces & breaks into chips- may be top part of 8a Weak pyrite in 8b near contact 20 / 80 E. 8b near contact weathers drk grey green & appears to be a pyroclastic breccia with frags to 1cm in size. Sample 28. Breccia beds trend as per underlying chert.

~150FT E of above
strongly tuffaceous beds.
125/40S. Large
block of volcanic breccia with
frags to 3" - may be transported

100FT E of above
narrow (5FT x 50FT) outcp of
serpentine trending ~145°

L32 27S 150 to 80 (W)
large outcrop of serpentine
outcp trends to 120 - 200FT
to W & 100FT to E from this pt
outcp is lenticular & ~100FT
wide here. 100FT S at L
to this otcp is smaller ridge of
serpentine. Jointing in
serp. at ~25/80E, some
filled with chalcedony.

Foliation
Shearing^ irregular but trends
generally at ~120/90.
Otcp crosses LINE 32W at 28S
& continues at sm. strike for 100FT
to E. Subparallel otcp 100FT x
50 FT crosses L32 at 295-2950S

L28W 24 S ~100FT to 120 (E):
dike of med grey leucocratic
gd? with ~ 5% biotite med
grained. Sharp contact with
Bb strikes ~~ 30 doubtful / dips 25 E?
no appreciable contact alt of
gd or Bb, Strong jointing in
gd at 175/85 S, 75/85 W
weaker at 150/15 N. dike may
be ~ 30 FT thick.

L 28 W 24 S:

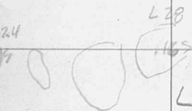
massive red green volc. networks of fine qtz veins stand out on weathered surfaces. Jt. at 65/85 NW occas. vienlets to ½" wide of epidote & qtz. Weaker Jt at 120/80 N.

L28W 24S 100 FT W

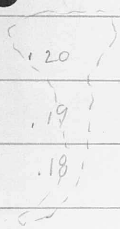
lens of serpentine 30 FT thick with strongly slickensided contacts with Sb outcpr on ridge top. Strike 134° dip 90°. (Fault is vertical.) Grades to the south into a relatively unsheared coarse grained gabbro.

L28W22S :

8b ocp ends - talus to 20S



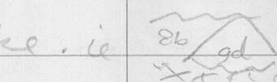
L28W16S : (50FT → W, to L24 StN9S150FT W)
to 150FT wide.
greyish green, massive volc
g. 20/90 ; 140/90



L24W18S → 20S :
otcp of 8b g. 30/~90

L24W15.50S 20FT W :
very tuff. chert. poorly bedded
breaks into chips. 110 / 30S
25FT X 50FT. Otcp continues to
~150FT E of L24W16S.

L24 19S ~150FT W
large gd dike 185/80W ?
width at least 40FT. Appears
continuous with otcp on ridgetop

Contacts 8b sharply. weak ⊙ at ~ 50/90 occurs in both 8b & gd. The gd is visible in vertical cliff face at ~ L24 24S & appears to dip in two directions may be maybe elongate stock rather than dike. ie 

(gd)(8b)

L 16W 25S? 200FT W:

8b otcp 200FT long 100FT wide rng 11 to lie ~

L16W 26S? ~300FT W:

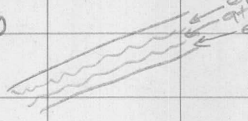
8b with large veins of epidote (to ~6" width & 10's of ft long

L8W 27S:

start of major ridge of Bb trending ~140 & extending sev. hundred feet

Between 30S L8W & 30S L16W is ~continuous Bb in small hummocky outcps.

→ abundant layered qtz/epidote veinlets in 11 arrays striking 15/ dipping 90



L8W 21S 10+FTE: ~100FT L 20FT W.

tuff chert bedding poor, approx. 60/305

occ. veins & blobs of qtz

Strong J 170/90

100 FT W J 110/60 N

L 16 W 29.50 S:

lens of tuff in 8b

bedding 100/~30 S Hard, pale

grey, banded rock weathers white

Strong J at 140/80 E

From 29 S. L16 W to 24 S L24

8b outcrop is continuous.

dips down to ~20 S around

L 20 W. (No outcrop for ~

200 FT wide scree slope ∥ to

L16 & just to west.)

L8W 200 FT W of stn 28 S?

tuff. volc J. at 80/80 N

otcp is ~ 400 FT Long - reaches L8W 30S

trend ~ 140 many subparallel otcps

LO 21N 400FT ⊥ → W:

argill & tuff chert bed. 75/30S

lens-like qtz-rich beds, darker argillacious material between:

Mn stain, occ cross-cutting qtz veins.

∫. at 150/90 & 40/80NW

LO 24N ~150 FT → W:

outcp 250FT LONG X 50FT wide arg → tuff chert, in places weathers red to purplish

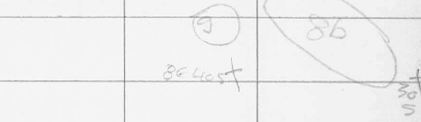
bedding poor 70/30S

LO 29S:

otcp of 86

LO 29S large hillock of 86 on all sides

LO Major ridge trends off from ~~Str~~ 30 at ~ 120° for ~800FT (ends at main knob of gabbro:)



L8E40S:

small 100 x 50 bump of 8b

L8E42S:

serpentinized gabbro outcrop ~300FT along line & 100FT → W, 150FT → E

200FT to SW of 40S is main cliff of 8b ridge

L8E38S 100FT ↓ → E

pinple 20 x 20 of 8b

L8E 35S:

100 x 50 ridge of massive, splintery, impure chert (dip trends ~45° to line)

250 FT ⊥ → W of line - smaller ridge of chert subcrops

8E 29S 200 FT ⊥ to W:

valley sub-outcrop of impure chert

8E 27S - start of deep glacial grooves in valley bottom.

26 Nov

L16E 38S : (to N 200FT W of line)

86 g. 96/90

L16E 38S - 200FT → 100 :

end of Knob of serpentine (gabbro)

L16E 38S 100FT → 100 :

small (50 x 100 otcp of 86

~~serp - one end~~)

L16E - 41S 20FT W :

end of 86 otcp that started at 38S

L16E - 41S - 50FT W :

50 x 25 otcp 86 & serp

L16E 44.5S -
serp. Subcrop.

L16E 44S - 100 FT ⊥→W
Bb subcrop

L16E 44S - 250FT ⊥→W
start of large knob of gabbro

L16E - 43S - 350FT ⊥→E
end of 1st sm ridge of serpentine
extends ~150FT → 120
main ridge of serp ~100FT
further west & ⊥.

L24E 38S 100E ⊥
lost Sub outcrop of (1)
100FT X 50FT

L24E 40S - start of large serp. ridge
Still over serpentine at 40S

L40E 42S -
ok ridges of unit 2 50FT E & 160FT ↓ W
one 50FT E trends to 120 & continues for 400FT
One to W crosses Line 40E at 44S. This is main ridge of slightly hornfelsed argillaceous unit 2.

L 40E 45S -
right on top of ridge - drops off directly to valley ridge runs at about 120,

Ls is about ≈ 1000FT to SE along ridge

L 32E 32S —
small ~~at~~ subcrop of hornfelsed 2

L 32E 40S
main ridge of unit 2 starts ~ 150FT ⊥ E of line

L 32E 45.50S —
main serpentine ridge starts.
chert at end is ~800FT up the ridge from the end of L 32E

L 48E 59S - 200FT L→E

limestone lenses strongly recrystallized.

L48E 54-57S - front of grassy cliff face

L48E 50S -

25 FT E - gd suboutcrop

20FT X 50FT

L48E-49S -

hornfels dtcp -

attitude from before

L48E 53S -

hornfels dtcps - previous attitude