

104K084

HEART PEAKS

Sept. 5/96

Snow at higher elev. / rain showers

- with ^{Wolfe} Dave Bridge (Canonera Geol.)

- (Burr)

- pick up @ 4pm at Samatoa R (km 143) on Golden Bear rd.

Upper hole ~ ~~525m~~ 525m
 Lower hole ~ 265m
 Total ~ 790m

Upper hole: all clay - alt d
 - Sinter at top → down into

mainly kaolin + minor pyrophyllite

Lower hole: went into Takahashi sets

- Simon Haynes (Brack U.) - contract, - looked at structure

(400) Sunny Sept 6/96

- heavy snow all over mtns just down into tree line

Get name of text on 'Rhyolite Bx' that Dave Heberlein had for WOLF (maybe Lane Knolls) → for Dave Bridge

883843

CORE → stack of ground in creek valley
by 96-1

96-1-95m clay alt'd vol +
gtz veinlet, with py envelope

96-1-125m Crackle Bx + py in
matrix/soln

96-2-69m Lt. pink + black 'sinter'
(no sulphides)

96-2-275m Rhyolitic flow with
silica rimming frags. + sinter

- Fred Daley, Gary Wingert, Jasmine Hobart ① SUNNY, HOT

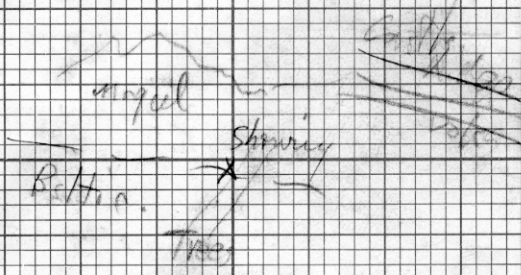
Photos ① Look westerly towards Level Mts.
Heart PKs. to N.

② Ditto - - - -

③ CAMP with Top ZONE
in bkgd.

④ Drill 84-8 on Top Zone

⑤ Look N towards
MOGUL Zone



Etc., Etc.

Flew in from Dease Lk. with
Frontier Hel. (Peter Kwan) - 0.7
one-way

- Verna Jordan (Gopher Expediting) - Dease Lk.

R. D. FENHALL LTD. MADE IN VANCOUVER, CANADA
DURSBAK WATER PROGRAM

METR

4 on Top Cone 2 on Qtz Hill
2 on steep zone cone

Drilled 8 holes ~ 2000m

SURFACE TOUR

- ① TOP ZONE
- ② QUARTZ HILL ZONE
- ③ STEEP ZONE
- ④ OVER + UP TO OPAL DOME
- ⑤ RHYOLITE (UPPER) - spherulitic
- ⑥ DOG ZONE

AERIAL TOUR

- ① TOP ZONE - 2 drill pads (#1, 2, 3)
- Qtz Hill + #8
- ② MOGUL
- ③ TIRFU
- ④ NORTH
- ⑤ OPAL

- Telluride in core? (Ray Dujardin)
- Arsenopyrite in core ✓

TOP ZONE

DDH

THUR. AUG. 23/84

lev. 1450 m

(2)

CLOUDY
COOL

@ 345°

-40°

84-1 to 214.9m

Trachyte

23.2 - 49.0m

slat (py) cherts
(up to 30% py)

44.4 - 44.5 light apple green (flowing)

31.2m .005 Ag / .18 Ag / 200 ppm Ag / 76
56

59.8m .01 Ag / .08 Ag / 33 Ag

114.8m .004 Ag / 2.14 Ag / 145 Ag / 150
56
(assoc. w. py?)

134.7m Gray metal .038 Ag / .59 Ag

168.6 - 168.9m Qtz flooding + s. thick.

Explosion bx's

172.45 - 186.65m - trachyte + sed.
- py in cherts + matrix! class.
+ fractures

Trachyte

217.65 - 218.2m

- thin break into bx.

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DUROSAK WATERPROOF

METR

TOP ZONE

elev. 1450m

84-2 to 279.8m @ 343°
-60°

TRACHYTE

27.75-30.6m Grey metal
28.6-29 1.6 Ag/100 As

92.1-92.2m .052 Au/.43 Ag

121.3m .012 Au/.02 Ag/100 As

124.6m .022 Au/.08 Ag) 210 As

188.25m .008 Au/.32 Ag/900 As/54 Sb

200.8-201m .044 Au/1.14 Ag/2700 As/125 Sb
(60% py)

195.3-195.4m massive, mottled py

to 257.1-279.75m Explosion Bx.

Trachyte - clay alt'd (vs silica)

Note: THESIS ON HEART PEAKS
at Univ. of Alberta (Edmonton)
~1982

TOP ZONE

84-3 to 219.8m @ 3450' elev. [?] (3)
-60°

TRACHYTE

6.7m .01 Au / .14 Ag / 79 As

71.1m Green, vitreous min. in fac (montmorillonite?)

73.2- .006 Au / 3.02 Ag / 75 As / 92 Sb

75m Blue-green min. in facs.

76m Py 'clasts' up to 1cm.

104.45-108.7m Green montmorillonite?

115-117m .006 Au / .28-.14 Ag

202m Green trachyte - mont. + epidote?

↑
Predom. clay-act'd
vs silica!
↑

X-rayed ⇒ LLITE

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DUKSBAK WATERPROOF

QUARTZ HILL EXPLOSION BX. @ 2550 Elev. 1338m
-40°
84-4 to 210,37m

24.4m .12 Au / .19 Ag

39.8-39.9m Qtz vein with 50%
arsenopyrite + py

41.3-41.6m Qtz. vein .02 Au / .14 Ag /
- interbedded trachyte + trachyte bx.

57.95m .052 Au - lgt. vein

Note: Sharp contact of explosion
bx. with silic trachyte

QUARTZ HILL @ 2550 - 60° into highly silic.
trachyte highly clayed
Exp. bx.
84-5 TRACHYTE BX.
EXPLOSION BX. - good silicification

49.2m .01 Au / .03 Ag | 3100 As / 20 Sb

54.25m .018 Au / .08 Ag | 3600 As / 23 Sb

55.1 .022 Au / .08 Ag | 6400 As | 37 Sb

62 .02 Au / .04 Ag | 4700 As | 32 Sb

65.95-69.2 up to 10% epidote-mont.

65.95m .06 Au / .02 Ag | >10,000 As / 170 Sb

103.8m blue-stained pyritic bx. (7% py)
↓ clay?

From ~105m → Highly clay alt'd

STEEP ZONE

© 080°
- 40°

(4)

84-6 to 191.6m

EXPLOSION BX. - TRACHYTE

124-125m Pyritic trachyte bx.
(> 10% py - matrix + rim clasts)

84-7

EXPLOSION BX.

- Frags.

Trachyte - 90%

Sediment 5%

py 1%

61.8-63 check

135.7m Gypsum vein + 7% sul.
(py + arsenopy)

→ siliceous trachyte

84-8 to ~ 1250 ft

- Highly clay alt'd trachyte

CORE SPECIMENS TAKEN

- 84-1 - 27.1 m 'Wiggly' flow silic. trachyte
- 45.1 m X-ray - blue-green frac.
- 59.7 m Qtz veinlet in silic. trachyte
- 88.4 m Qtz-py veinlets in "
- 147.5 m Green clay det. - X-ray
- 167.0 m Silic. trachyte
- 175.6 m Silic. bx
- 178.3 m X-ray - clay frac.
- 180.4 m Silic. trach. bx.
- 186.7 m A above w py.
- 84-2 - 116.5 m Qtz-py veinlet x-cut. ^{py veinlet} in silic. tr.
- 146 m Qtz. veinlets + envelope in silic. tr.
- 195.3 m Py-rich (radiating) bx-casts
- 250.1 m Clay-py and trachyte
- 84-3 - 75 m Blue-green min. in frac. - X-ray
- 98.2 m Flow (welded), silic. trachyte
- 190 m X-ray - green clay
- 84-4 - 11.6 m Explosion bx, + py
- 39.8 m Qtz. veinlet + py + quartz
- 72.1 m Explosion bx + py
- 102 m X-ray - green
- 210.2 m Highly clay and explosion bx.
- 84-7 - 138.4 m Silic. trachyte.

COMMENTS

(5)

- very high in epithermal system
i.e. - opal
 - silica = sinter
 - no base metals
(only py + tr. arsenopy + tr. stibnite)
 - high geochem - As, Sb
- Very slow Xlization within
cockscorb qtz veins (inwards)
 - some double terminations
 - good 'oscillatory' (growth?) zoning
in qtz xls.
(smokey, clear centres → milky white)
- minor amethyst
- phreatic explosion breccias
 - sharp contacts with alt'd trachyte
- 2 distinct alt'n - silic (= py)
 - argillic (+ py)
- Minor pyrrargyrite (proastite)
In banded (clay) layers within
banded qtz.

Host trachyte varies from:

- i) massive (+ old kspar phenocr)
- ii) flow banded
- iii) brecciated

- all types lack Qtz eyes!
(i.e. none)

- GSX DEASE LAKE Aug. 22/89
SUN, CLOUDS
- WARM
- Hugh Gabrielse
- Cry Ik + Dease Sheets
- looking at Sylvester Gp (Cassidy to Midway)
- paleomag. work (cores)
- moving next Spring to Tatogga
to be closer to Spatsizi
- Tipper - in Athin
- looking at correlation between
Dease - Tulsequal sheets.

SMITHERS

Aug. 21/89

① Glen Garrett + Elmer Debonk
- general area

② Dave Budinks (omex) / Ray Hrac
(Gerle Gold)
- Long shear zone (7km)
- Red tourmaline
- Native gold

③ Henk van Alphen - Dome area