

887922

① 103F
034

CINOLA

Mar. 4/87

SNOW 0°C

- Robin Tolbert, Chris B., Neil Tom, Marco McKillop, Duane (u/g), Paul Wilton, Andre P., self + Rob Bryce

- 'classic' epithermal hydrothermal system, 'intrusive' into skarn sed. (cgl., ss, boulder cgl.)

⇒ key is rhyolite (3 to 4 phases) plus hydrothermal by. (incl. hydrofracturing of rx.)

→ single phase + multi-phase silica deposition

- late stage Qtz veins cut prev. silic. cgl. and have u/g.

- pervasive silicification as if silica 'stewed' into porous rx. upon rising.

R. D. PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSBAY WATERPROOF

Surface

Silic

Argillc

Silic

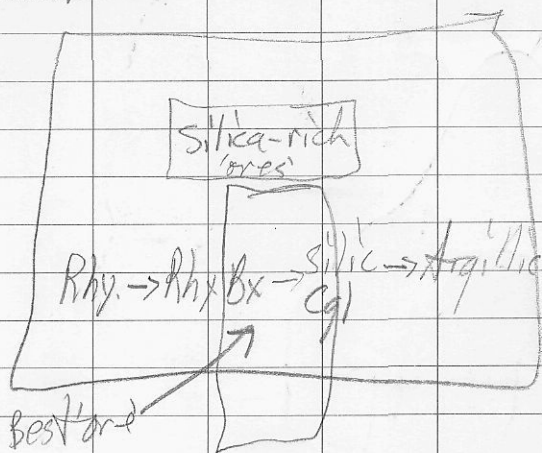
Argillc

Myofite
+
funds

② Question of sinter? - prob.
lower down in system
(ie. eroded off)

Robin Tolbert + staff suggest
correl. with McLaughlin

Photos



DDH 87-02 had sig. amt.
of boulder cgl

Ref. Econ. Geol. - Special Bx edit
→ CINA LA

100 m

0

5 yr pit

BABE 10
BABE 7

BABE 9
BABE 5

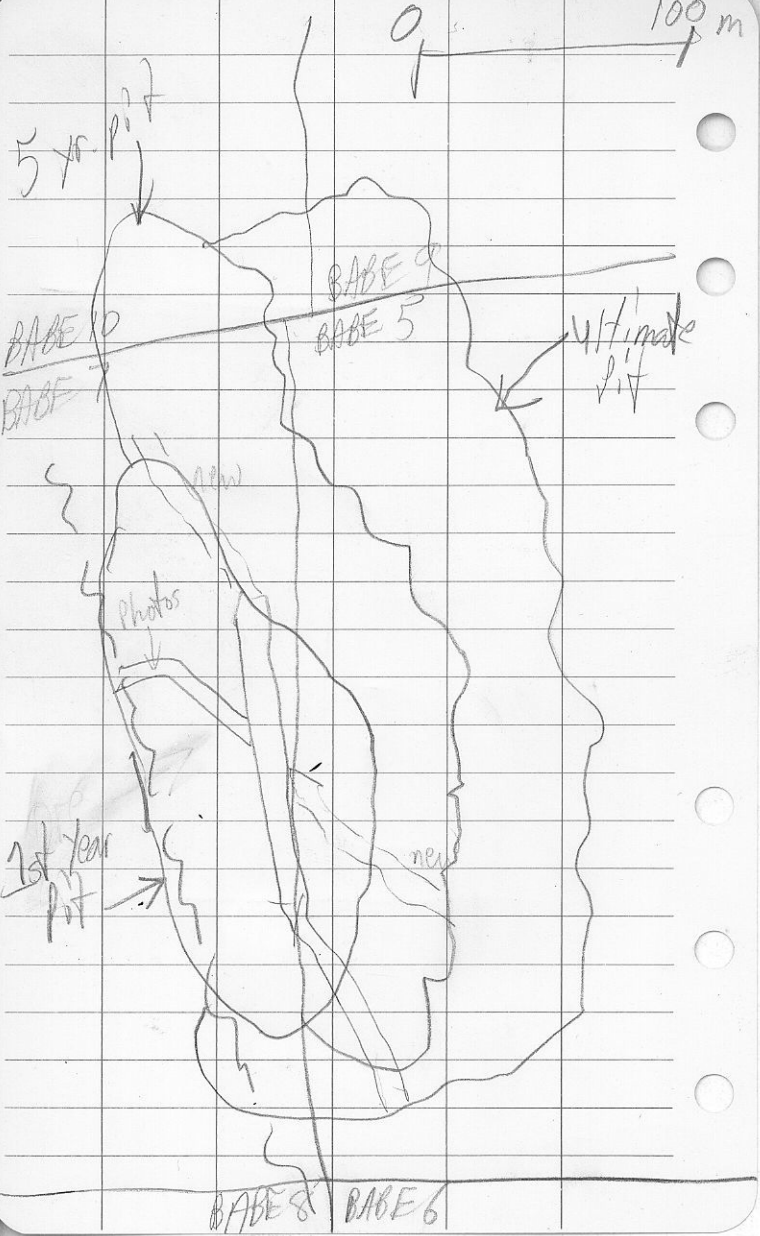
ultimate pit

Photos

1st year pit

new

BABE 8 BABE 6



stibnite 104-80-04-57.3m
- in silic. cgl.

→ Au in pebble dykes also

- progressive replacement by sufficient microcrystalline silica often follows bx → py, marcasite + Au
- devel. of mosaic tex. + karst tex

Hot Spring Au

- focused fluid throughout thru hydrothermal vent bx. - vertical fluid flow

SFG TOUR

Sunny + 15°C

Mineable Sept. 23/88

WOLA

24.8m tonnes
2.45 ft

Step 9

- excellent 'fluting' w/c

- tip-up textures of
myalite 'blocks' in mud
flow units

(i.e. nearly contemporaneous)

'Keal' zone at depth
(6 dth) = Bonanza
ore 'shoots'

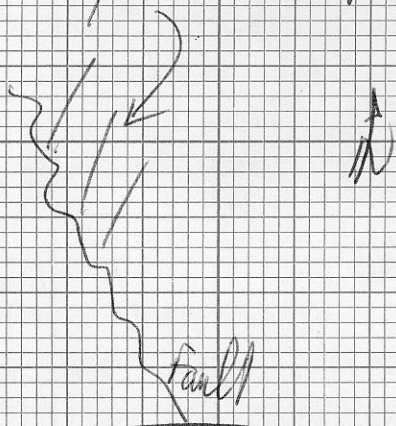
i.e. vertical zoning
~ 50 m deeper

(below pit level)

1 to 4 opt Au!!
over 5 ft.

- Photos (2) of drill thru adit
(send copies to City office)

Note: Main gtz. veins @ 030° to angle of Specyna fault.



Letter to John Bailey, Pres.

~~4 cases per (Hyder)~~

① CINOLA (SPECOGNA) Mon Aug 5/96
Sunny +24°C

- Robin Tolbert
- Brian Bowyer
Gary P. (Calgary) Misty Mt. Gold

Met for breakfast at company crotshack
behind Golden Spruce Motel, Port Clement

Quartz - fluid incl. ~ 140°C - grey colour (best)
- est. 17 (seventeen) stages of silica dep.

Illite - Smectite - } 'higher' grade
areas I.D. - 1/6 feet with drill

Rake ^{of veins} @ 45° NE (veins @ 030°/V)

18Ma - Marino rhy. - Hibokado Univ (Japan)

14Ma - rhy. u/G at Cinola

'Pepperite' - intr. of rhy. into unconsol.
boulder sands. (Cathy Hickson)
- core-sized sample in office

Adularia with earlier phase

Est. \$5M 26,000 m @ \$55/ft
Spring - end - Dec '96 114 ddh

5000m ddh in winter (1/2 in '96)

i.p. 2500 m ddh in '96 ~ 1/M 46 LM

(2) Total '96 Budget ~ \$6M (A) M Jan-Feb
\$3M - May-Dec

2 new sinters (30m apart)
(horizontal)

- bounded on WEST by DTH 43, 4"
(centred on # 56)

→ several mining co. looked at project
over past 2 mos.

- pyrite - marcasite

STAY 1

Photos look SE over days
[rusty rhy. quarry to left in
FW of Specogna Fault]

Note: Magno showing in shadow
↳ left-centre (shadow)

STAY 2

Rhyolite 'pit' - dyke in FW
Haida Fm, quartz. (surface assay
~ 0.138 opt Au (DTH 87-18 drilled
underneath = no values)

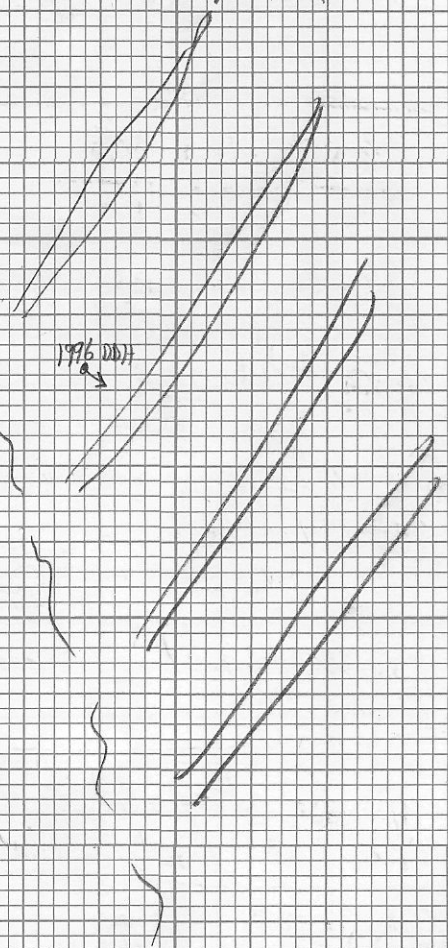
③



1950
↑ Plunge

Speyerer Fault

1996 DDT
↓



(4) STOP 3 Hot (and) pot - mud breccia with ^{carbonates} wood fragments

(5) STOP 4 Seds. - Quarry

Photo - Pelecypods / ^{site} Cgl.

Photo: large 10 ft diam grey "boulder" cal. - rimmed by drusy, banded qtz.

(6) STOP 5 Look W 'up' new rd.

Photo [Note: Discovery showing above (landslide r.k. material)]

- Specogna Fault on 'up'-side)

Photo: look NW along base of Discovery "Cliff"

[Note: all overgrown in last 10 yrs.]

(7) STOP 6 Underground

Photo - Entrance

lrgs in cgl. aligned parallel to vein direction is 630° Fluvial ^{envir.}

Photo 3.8' gth Au over 8 ft.

Photo siliceous in Specogna Fault zone

"Bob Hunter" vein #45142

Gord Richards - Quintana
+ partner - John from P.C.

MARCH '76

Dominant gtz vein + bedding
110°/V at north end of bluff
show

Babe 7 + 8
initial at
end of 'south'
show

800 ft. long N-S
cut along cliff
- blasted + 1 Kenner ddk

Host rock is

sandstone - highly
silicified. - Some (lots)
fossils leaves + e. lamis

est. at
South
end

- Esp. po. at north end
with gtz. eyes.

Discovery (Au) otep in bush
at north end of prop.
- Buff grey gtz. eye po.

$\frac{1}{8}$ " to $\frac{1}{4}$ " veinlets of
qtz. with native Au.

~100 cts. on prop.

5 dth last winter

No sed. sequence

Hanna Fm. - grey ss. + congl.

Check Ghost (Br. 4b)
"oil shales"

Dumortierite on beaches
"purple"

Marcasite timing frags.

At first glance it looks as if
Au is preferential to banded
silica veinlets, but Gord says
not so - also in X'line veins.

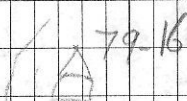
① CONS. CINOLA

Sept. 10/79
Sept. 11/79

Jack Schurman - Al McKinley

Mike Crusen - Denver geol.

- 50% interest by Energy Reserves of Denver (+ Calgary)
- 8 men in camp
- good trailer camp



①
78-8

① 79-9

① 79-2

18-6

- currently 1 ddh on 79-16

- plan to use 2 or 3 drills this winter

- UBC student (Neil?) did thesis under Al Sinclair this summer (thinks our Stromum = Haida)

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DUCKBACK WATERPROOF
MADE IN B.C.

78-6 - Good 'stock' hole

Measure	Depth	Description
1A	6 m	crse cgl.
2A	12 m	
3A	20 m	
missing	36 m	
5A	78 m	wood + qtz veins
6A	90 m	qtz + broken qtz (-Au)
7A	106-108	qtz + cgl.
8A	120-123	squeezed pebbles/py
9A	134-136	mic qtz
10A	154 m	- sil. seds in <u>good zone</u>
11A	172 m	- sil + br. rhy in <u>good zone</u>
12A	168-178 m	- <u>good sec.</u>
13A	174 m	- close-up of <u>good sec.</u> in blk ↓ qtz veined rhy.

79-9

14A	110 m	- py + brown qtz
15A	<u>79-10</u>	- 143 m - ^{syncretic} bedded in seds (sh)
		- good xline py
	16A, 17A, 18A, 19A,	
	<u>79-14</u>	Seds. sil cgl
20A	- Qtz veined rhy. por in otop.	uncons. SS.
		21A) missing

2

BABE

Sept. 11/79

DDH 79-14

- furthest west on property
- in 'same' Skonun sedts (as in ore zone)
- top is crse silic. cgl. with well rounded frags. Some rimmed with opaline silica ± pyrite.
- pyrite also in matrix
- frags include rhyolite with gtz veinlets + rounded ~~frags~~ pyrite.

bottom part of hole grades into semi-consolidated sandstone similar to that at SE end of 'cliff trench'. This part appears to have 'escaped' silicification.

Cgl. has been silicified i.e. pre- or syn-mineral shallow brine system with circulating hot waters + muds.

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DUKSBAR WATERPROOF
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- Probable that some of pyrite
is syngenetic in muds
(q. 79-10)

- Good surface exposures of
rhyolite - silica system
near 'upper' core racks

ADH-16 - now drilling
- confirmation grade-control
hole.

- stayed overnight in camp - (due to
early 6 pm ferry)

①

BABE

Jan. 27/80

Cons. Circle

CM 93325

Masset + fr. Rupert

Depositional Sedimentary
Environments

Springer-Verlag

by Reineck, Singh

p. 253-258

Blissenbach

1975

Current Drilling - 1VQ + BQ - 2 drills

① #47 - Coates

② #42

- Les Kaye - geol. in charge
Duncan (U.W.O.) - geol.

- approx. 15 in camp

- 2 ft. of hard crusted snow in bush.

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DUKEBAK, WATERPROOF
MADE IN B.C.

- looked at maps + sections
- looked at core - esp. 00H. # 79-23 - typical section with assays available
- showed no correlation of assays with i) rtk type ii) silicification iii) massive r py

- Les' idea:
 → Alluvial Fan deposit ("fossil placer") with Apex up to NW by or above the Marine showing [Ref. opposite side of pg]

- In general, grades best in sil. rhyolite (bx) above rhyolite dyke.
 But - can get Au (e.g. 0.2 g) ^{g/ton}
 (alt way upl section in e.g. ^{g/ton}
 i.e. cannot fit all gold back to rhyolite)
 → fans + channels of varh. egl. + occasional SS + SS beds

BABE

Jan. 27/80

② Very difficult to trace units or beds across drill holes due to geometry of fan + channel.

- Presence of accretionary mud balls (eg. DPH-79-36) formed by rolling along down fan. - see nice 'concretion' forms.

- Can also get rounded frags. of only pyrite.

- Clays 'flushed' out by act. of surface +/or ground waters.

* Ubiquitous vugs + cavities many lined with silica.
→ spaces between frags. + clays being eaten away by solns.

- H₂O sink mainly confined to zone of rhy. bx. immed. above rhy. dyke.

- Footwall argillite & mudstone (sometimes silicified).
- No Adit deep enough to see what is below.
- woody frags. in ss. parallel slope of tan.

- 10 ft on a near 40 metre ^{year}
- blank in drilling just ^{year} south of Marina Showings.
- all vertical shales.
- plan to spend $\$4\frac{1}{2}$ million this yr.
- Rhyolite unit is a dyke (as seen in X-sections)

Previous quote re-cal.
"Different + chaotic"

- Set up new core bldg.
- Going to push new road around below South Face for u/s adit.
- Should have a sedimentary

BARF

Jan. 27/80

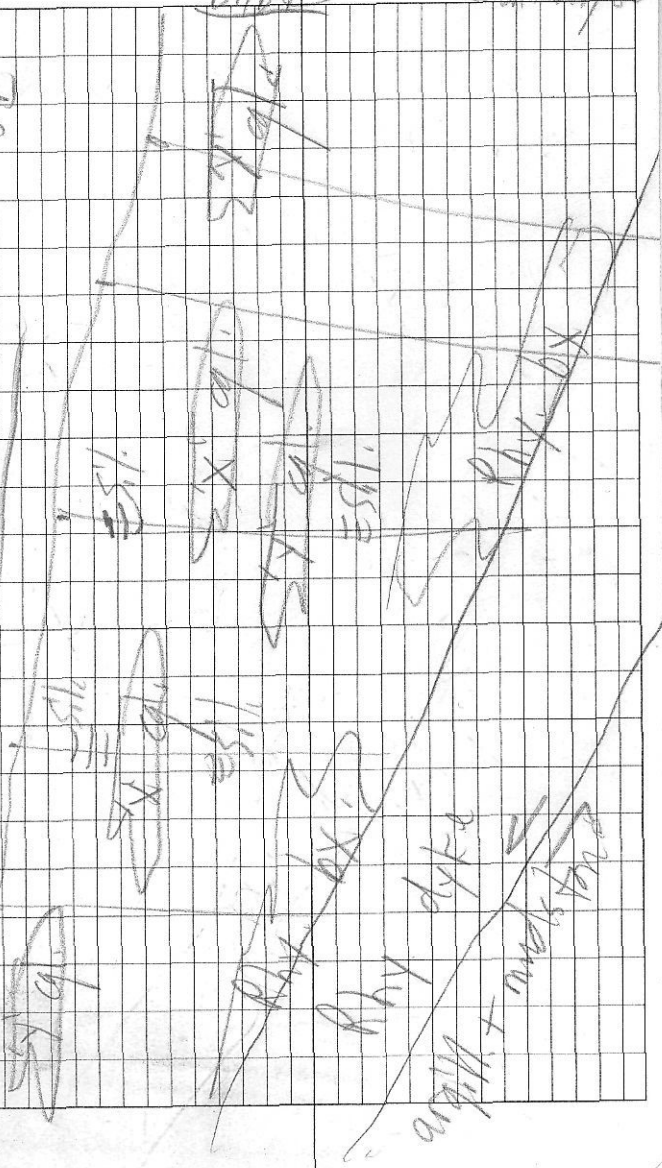
(3)

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DUKSBAG WATERPROOF
MADE IN B.C.

Longitudinal Section

NW

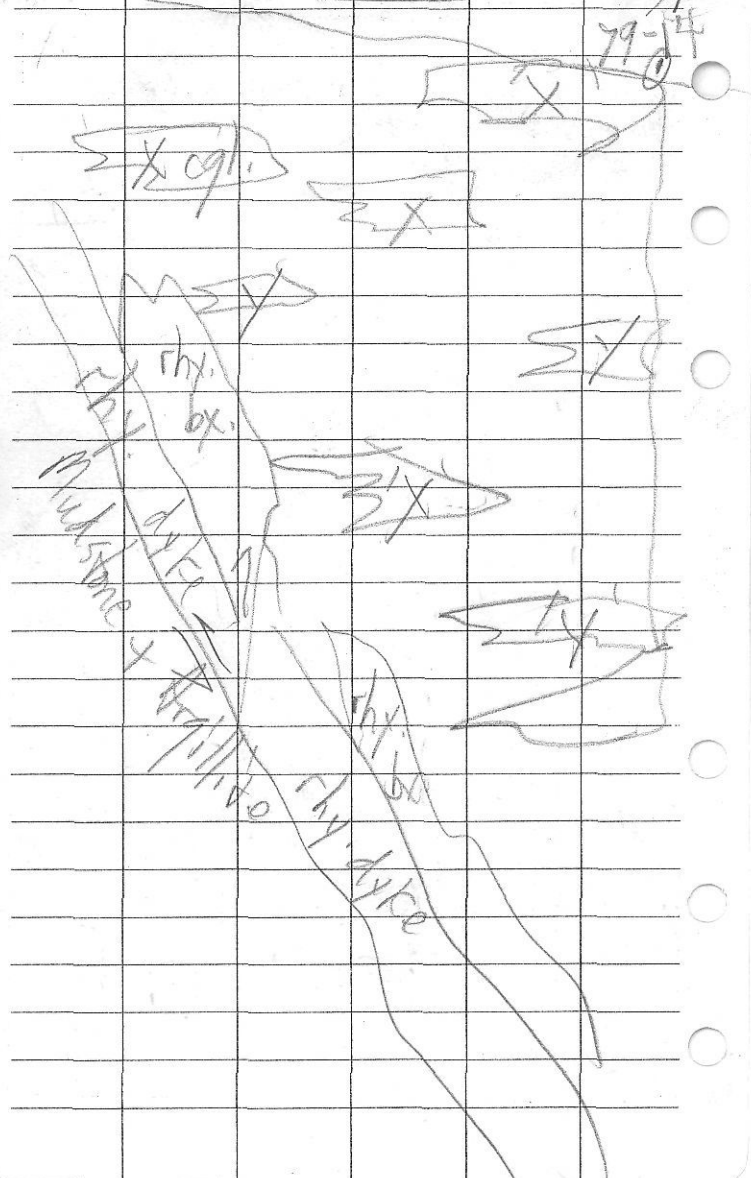
SE



NW

Cross Section

S.E.
79-14
①



(4)

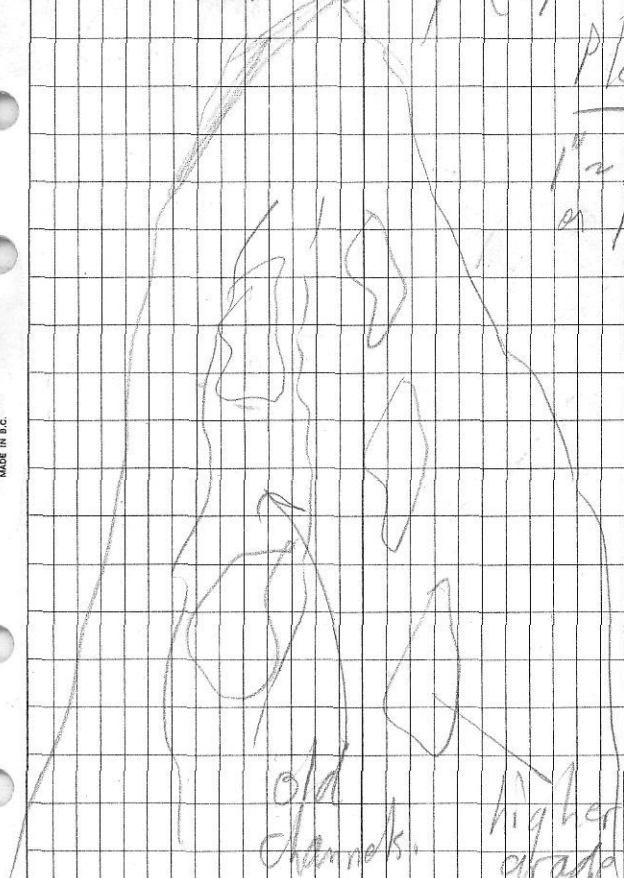
BABE

Jan. 27/80

Marina Showing (Apex)

Plan

1" = 300 ft.
or 100 m.



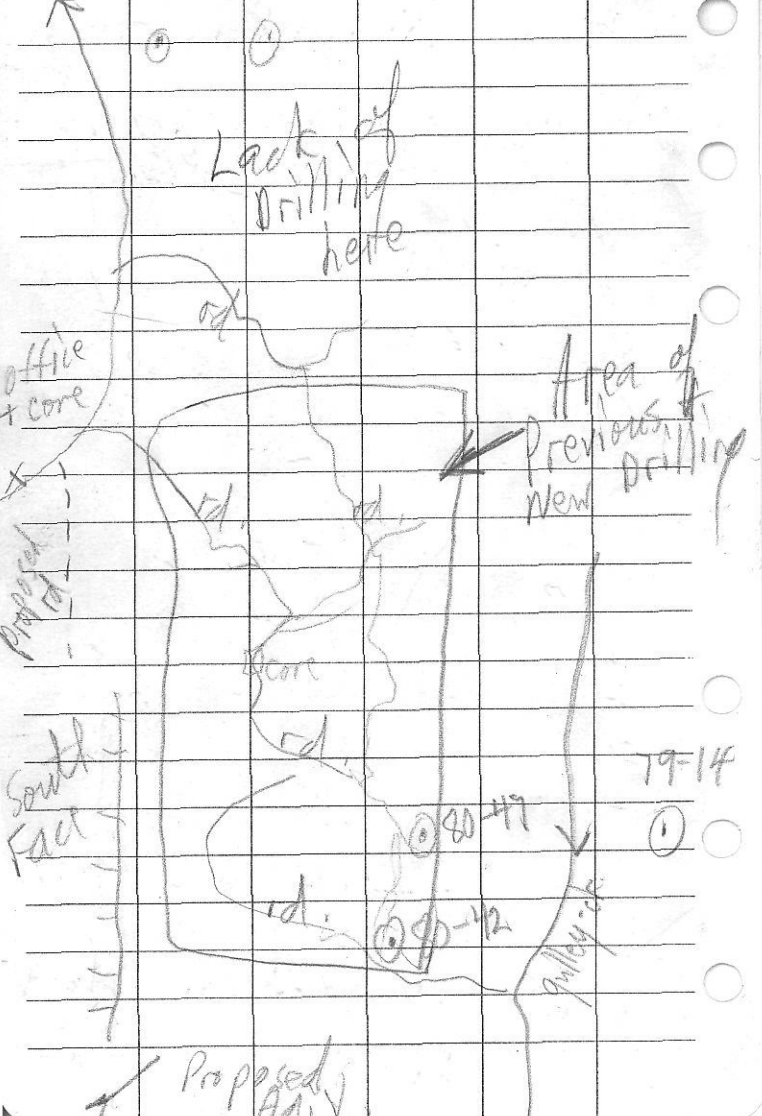
old channels

higher grade lobes

~~Plan~~ Marina Showing

Plan

11



BABE

Mar. 1/80

- ab. lignite (carbonaceous)
- 3 g/day Au from mill
- just turned on portal
- in ~ 360 ft. (just in 'ore')

~~* marine (fossils), deltaic - near shore
gravity slumping created
erosive grades~~

BABE

Jan. 12/81

- took Gib McArthur with me
- toured by Steve Lancy (geol.)
- Bob Hart - cons. geol. with Kilborn out of Toronto
- adit in ~ 200 ft. - will not start sending material to mill until 300 ft. in - then will go in to ~ 1500 ft.
- good flat-lying contacts of CRP pebble cl. & ss. Both silic. & later gts veins
- vugs & mini-caves
- old slips i.e. tough ground
- adit at southern end of South Bluff
- ab. carbonaceous matter

- more py (marcasite) than usual.

- surface ddh to north (H/A in)
+ for stage II

- crusher ready soon

- Pilot mill well under constr.

45 min. from RCT

1:45 via Port Clements

- core shed almost at capacity

~ 267 people to be employed

CYNOLA

Sun June 13/82
Sunny +15°C

- Al McKillop (+ wife)
- samples from portal area

visit Masset placer see map -
grd. area with Ray Standbridge

Mon, June 14

- with - A. Sutherland Brown
- Tank
- Chris Yorath
- Linda Yorath

Al McKillop toured us (me) around

- core shack
- north + NW end of ore body where Mac-Blo have been logging,
- logged to top of Marino showing
- test pits for rock (by Mac-Blo) have shown native Au in siliceous argillized rhyolite - on west side of fault !! (potential !!)

- view from 'top' - out to Masset Inlet + new location of mill, ore stockpile + crusher

- good geology between camp + core shack along road.

Underground

~ 980 ft. in.

- well bedded silic. cal. with mainly vertical chalc. veinlets. Some minor subhorizontal veinlets. i.e. multi-stage
- good sections of ss with wood frags.
- local 'crackle breccia' with veinlets of pyrite
- both X cuts ended in Seawall Fault - gouge.

