TO: Dave Lefebure

FROM: Derek Brown

DATE: Thursday, July 30, 1998

RE: Our study of the Golden Bear Deposit and Environs

Dave,

Here are some suggestions for your continuation of field studies at Golden Bear:

- 2. Examine and collect drill core from Kodiak C (we did not have drill logs)
- A 2. Examine and collect drill core from Bear Main (we did not have drill logs)
- 3. Review Misty-Nie property data = northern extension of the Ophir Break (West Wall fault); erratic Au (MG-374, >10,000 ppb Au), silicification ??, DDH and notes in data room. See Zuran (1994)
- * 4. Examine regional data -- Bandit, Ram-Tut, ... -- are there any maps, etc. that could or should be copied?
- 5. Copy Totem trench maps?
 - 6. Find and copy Chevron Bear Main original trench map.
- 7. Collect more fluid inclusion samples -- quartz and calcite.
- A 8. Look at Fleece Bowl in more detail. (mile) 3 ampl
- 9. Sample more of the unaltered carbonates and Fe-carbonate alteration zones -- for carbonate species
- 10. Look at Andrew's decalicified limestone at Ursa and collect for thin section (rounded quartz grains in gouge zones -- I never say it).
- 11. Check out geology along the new haul road from Kodiak A down toward Ursa -- how does the Totem Silica Zone interfinger with Fleece Bowl silicified zones?

13. check out solution cavities, horst 6x

The question of the nature of the breccia types remains: (1) tectonic, (2) hydrothermal, (3) solution collapse (syndepositional/diagenetic), (4) solution collapse (recent karst formation)?

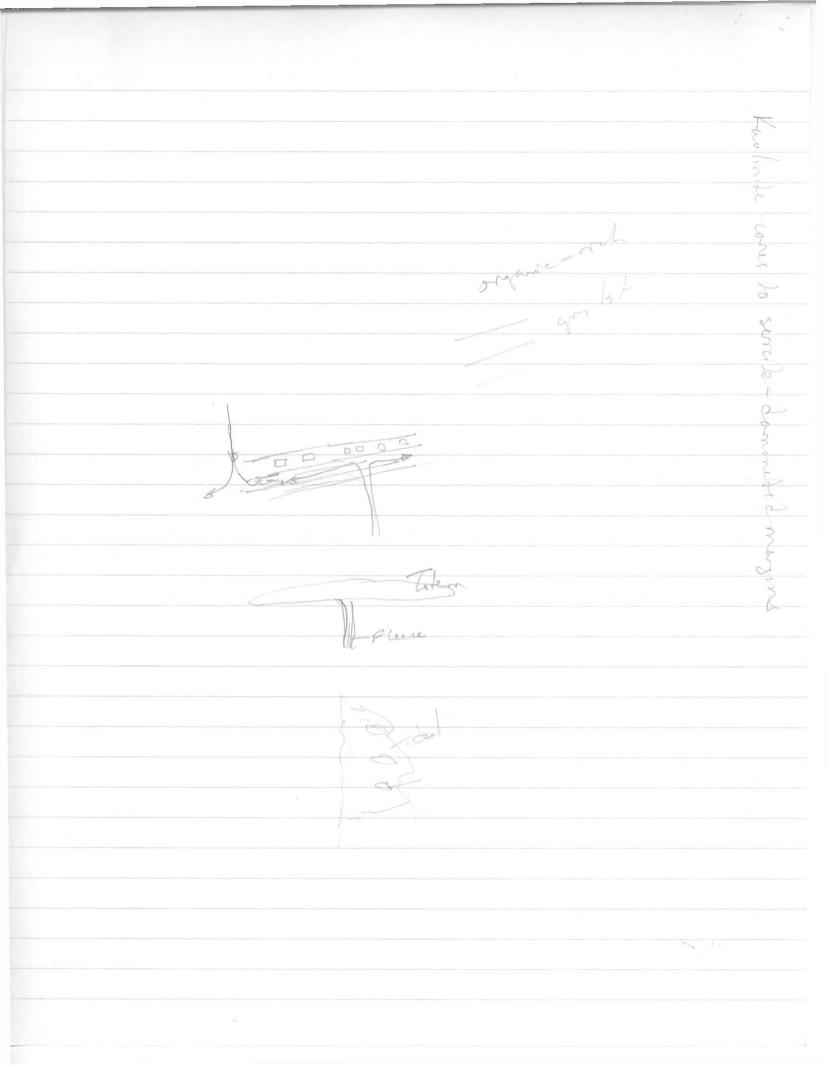
14. Oxide Zone at Bear Main. 15. pictures of gouse??

Derek Brown, Project Geologist BC Geological Survey Branch, 5th floor - 1810 Blandshard St. Victoria, B.C.

- andrew's Hes - my slides? + note book - scribe B.86 DH 118 - towell - Gerek's maps - files - gerchenishy?? 23860N/1197 New surface, right down Orientation flat slab - offset by B-W foults - how much gold vertical zonny in Carlin 5 yst drilling on Black Pult 1 to 25/2 An over 05 to 3.0 m whitabat 785 OH96 Magnetic 39g H An wes 1.3m - importance of NE structures? effect on DDH96> unlikely faults have shallow dip truck N-s over hill

493 8672 021 7938 952-0432 DB? Ratatotok District, North Sulavoestpas-Indonesia - curbante sedements and spiclastres
- intrasjon of shallow level premineral condente synchronous with late-stage reactivation of strike-ship faults - secondary do lombe - wenne synte, 31/12 verilits and Du - total decuboration and spessive 51/12 due to deculartrates and dolomite seripherly artimory on structural zones within 5) resident gtz-Clory vems epheement breezes Syle Mineralizetion Not prote ? produces placers

- altertime - report



Pe whomk Any East-trending few 125? Morre dy tes?

White wind Bopach of fault contact

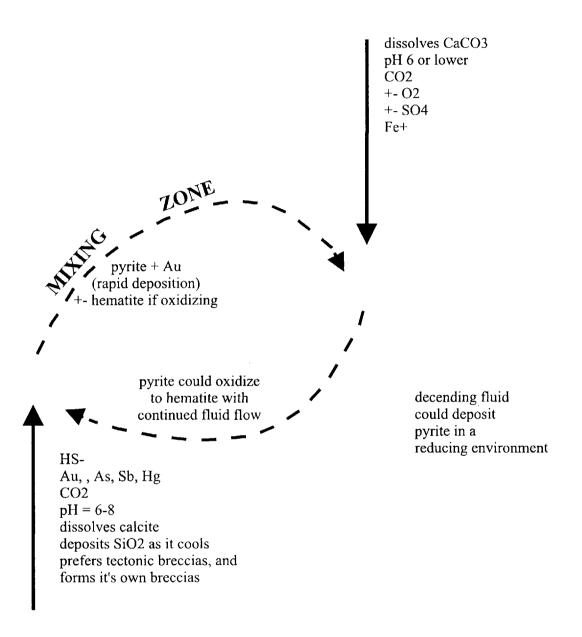
deposition of binestones, terry sittatues dregente development of less crossin 21/2 road feore water) our test could be some -probably - offered intermediat dyle (presen Misny Crosian touldon

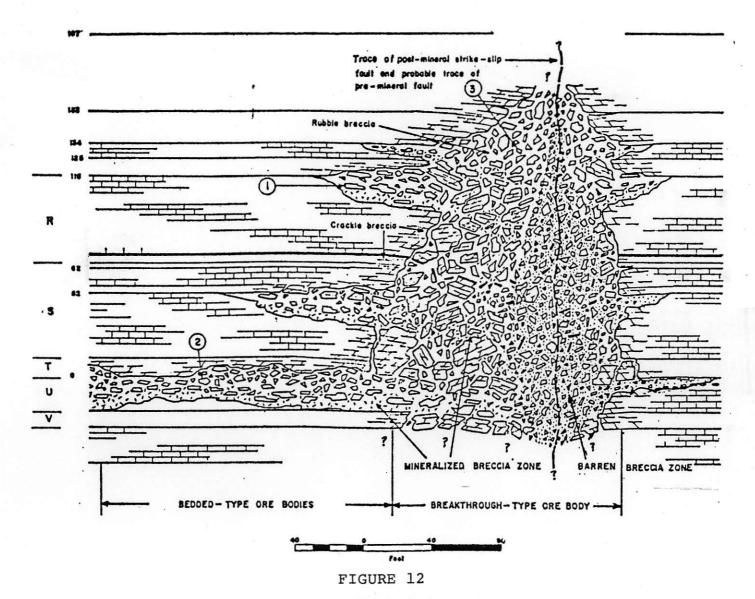
of fooding + footing sed mist offen 2

LMCH3 Imashna with chart pods Lmaggalinestone with consords Lms7 (imastone) (dolomitue) (delonital) Lmg. chert, arsillite Volcanics control on Eplanitzaka - hydrethernel -diagenetie - melanosphi? two beds in LMBC are extremely sitiethed and have low grede moveralization

Preliminary

Golden Bear Fluid Mixing Model





An example of brecciation styles in carbonate rocks.

Wasylyshyn, 1987

Kodrak Ridge Flore Fault Toten Silice Zone tens of metres & up to 100m? Deback siliceous zones C'ihert" + graphite - rusty zones - jasperoid Mr - ten silvatied by M - dolomite (? seinday?) 1 - silica patches lines, possibly layers H -nel fexture silizar 1 - matic volcanics 10 - Carbonate -alt - volcanos ? Lost kthologies impact
? Lip impact on extent ? how different important significance at gray/blick silved trains? luter) original composition?