

Sheba

S 74 - 1 (700')

lots of split core in some margin

Skeena C.R. zeolite veins

sericitic & dk green altn for first couple of  
hundred feet.

S 74 - 2 (619')

Fairly wide D1 dyke and Skeena

Last box seen had oxidized aplite

lots of split core

S 74 - 3 Skeena C.R.  
(690')

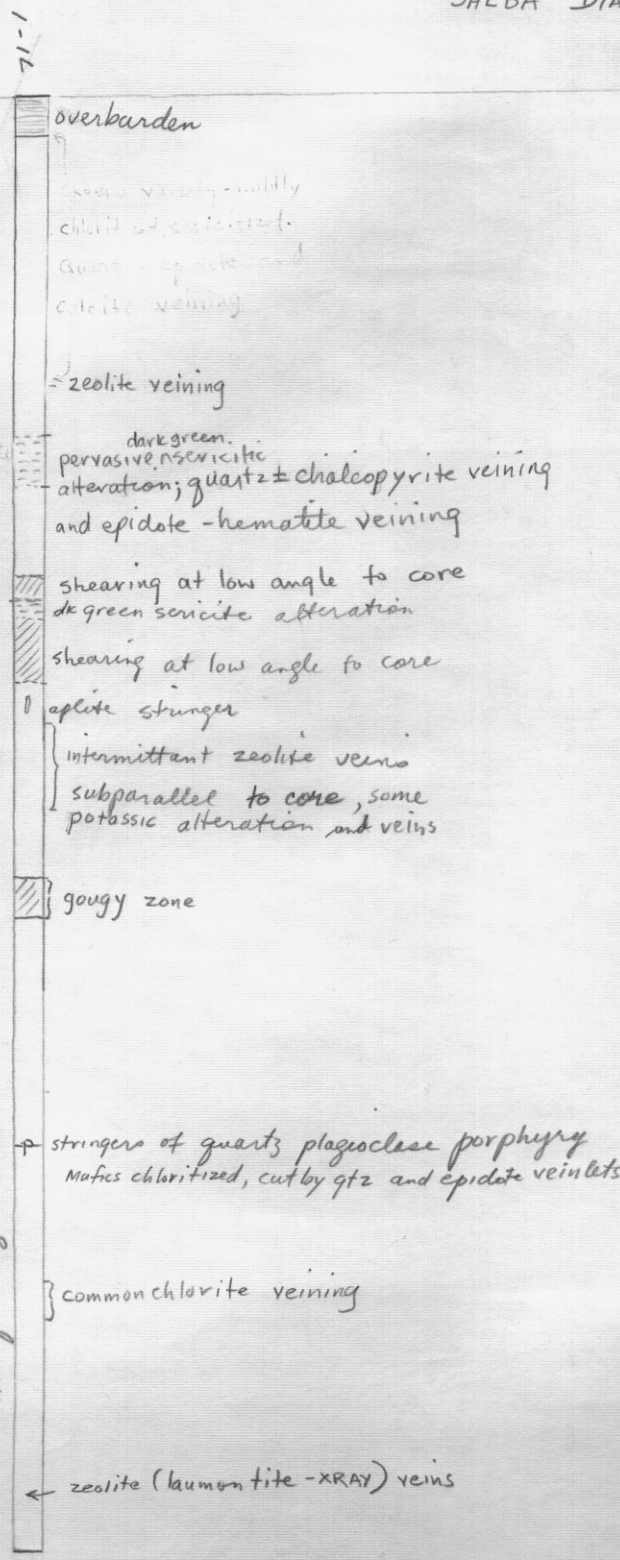
Some dk green altn

some aplite

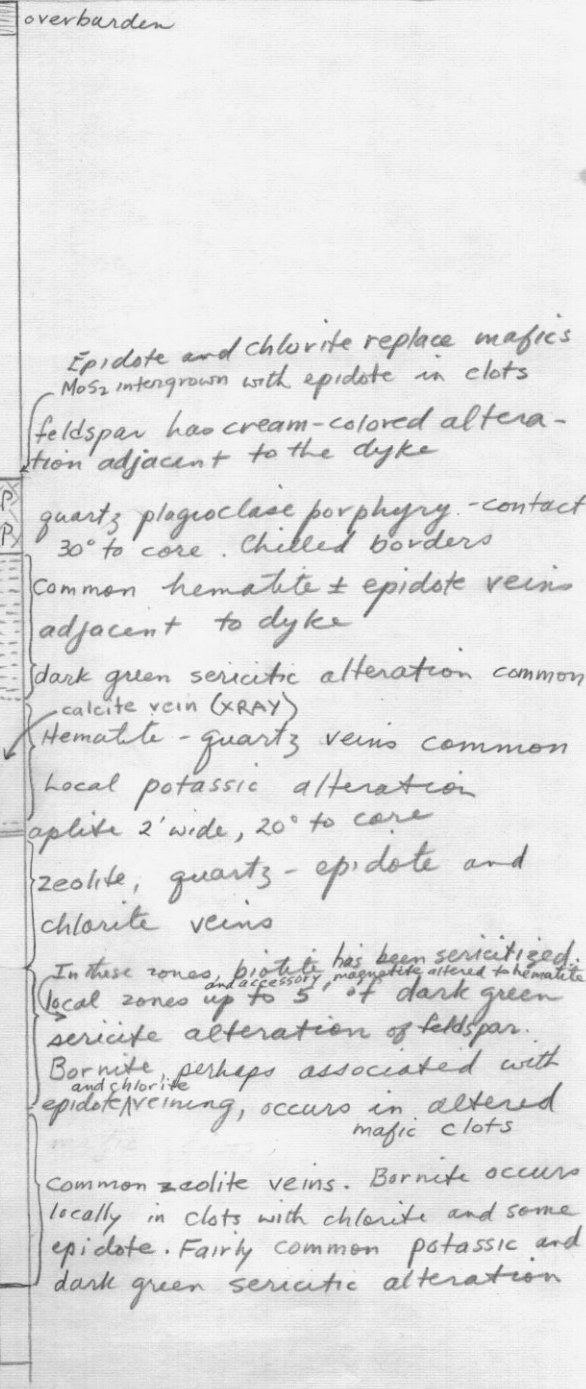
lots of core split

Scale 1" = 100'

overall :- Skeena quartz diorite which is weakly epidotized, sericitized and chloritized with intermittent calcite, epidote ± quartz ± hematite, zeolite, K feldspar and quartz veins.



overall :- Skeena quartz diorite which is weakly sericitized and chloritized with one prominent porphyry dyke and quartz - epidote quartz, calcite, calcite, zeolite and K feldspar veining

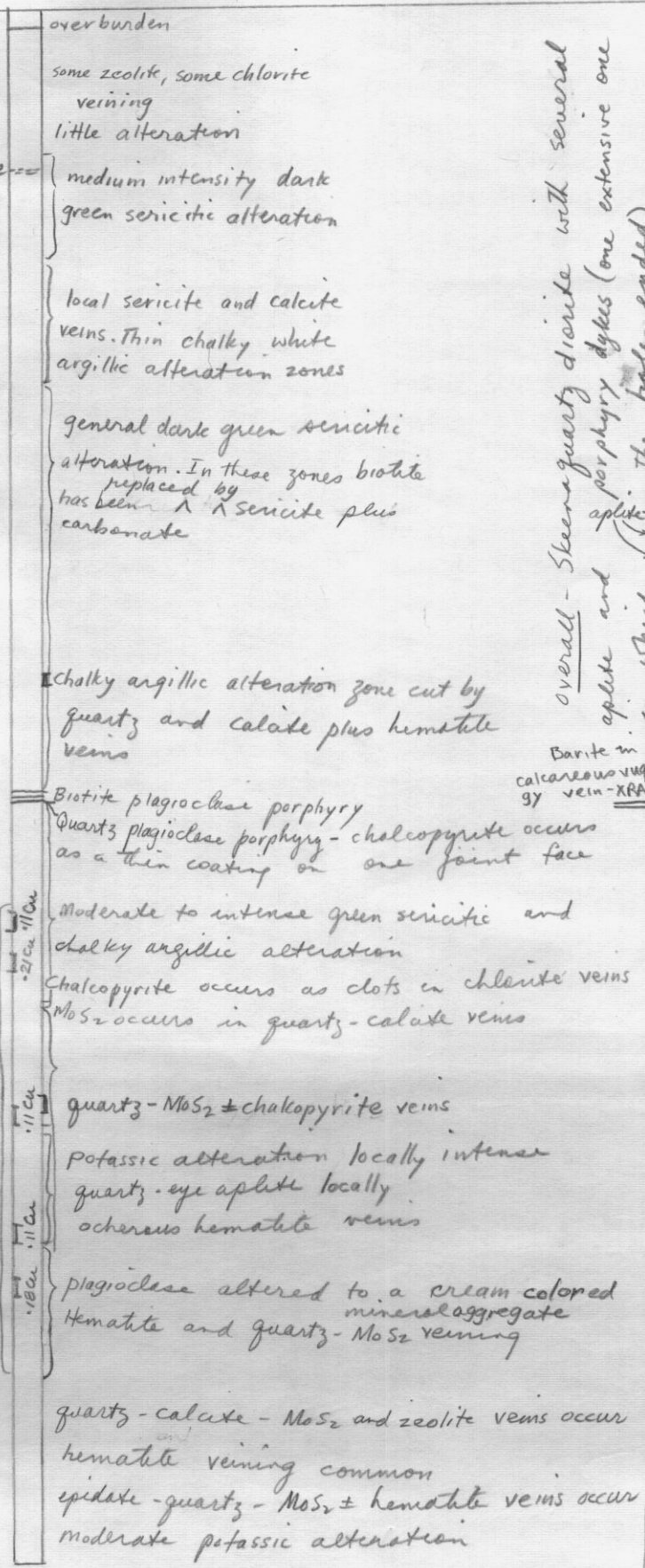


overall cut  
← .1% Cu

- T.S. 190 plag → ser + calcite  
mafics → chl + calcite 1 & 2 essentially + leucosene
- 342 plag → chl + calcite or epidote  
mafics → chlorite
- 346 plag → ser + lots of calcite (plag pinkish white)  
mafics → ep + chl + calcite + opaque

- 670-680 0.1% Cu: intense argillic alt.
- T.S. 058 plag → clay - in aplite
- 090 plag → ser + clay? mafic chloritized
- 217 plag → ser + calcite + clay? + albite??
- T.S. 386 mafics → chl + opaque  
plag. → ser + carbonate (white)
- 259 Porphyry plag → carbonate + ser + clay  
mafics → chl + ser
- 282 Porphyry plag → carbonate + ser + clay  
barren + sericite veins w. calcite cores
- 300 plag → carbonate + ser + albite? + (olive green) day?  
mafics → chl + carbonate
- 386

overall Sheena quartz diorite with fairly extensive moderate dark green sericitic alteration and more local argillic alteration. Copper mineralization occurs in veins and replacing mafic minerals.



- T5 513 calcite veins cut quartz veins
- 781 salmon pink plag. - extend to ser. + calcite + ? color due to finely dissem. hematite ??
- 806 plag is pink actn. mono. ser + calcite

T.S. 291 plag (green) → ser. + calcite matrix slightly chloritized  
 403 plag → ser in some calcite + clay; in others mafic → gypsum ?? + calcite  
 665 plag → ser + cal. + ept clay  
 Porphyry mafic → ept + calcite; chl

71-5

overall Slightly altered Skeena quartz diorite with local hematite, quartz, epidote and chlorite veins and aplite stringers.

overburden

Quartz-bornite veining, local zeolite veining  
local sericitized zones

Hematite veining.  
Chlorite alteration along fractures  
Chalcopyrite coatings occur on some fractures

.14Ca

local argillic alteration

local potassic alteration

relatively fresh rock, possibly local  
potassic alteration

local sericitic alteration along fractures  
calcite, zeolite, quartz-epidote ± MoS<sub>2</sub>  
veins. Local quartz plagioclase porphyry  
stringers

calcite vein - XRAY

aplite stringers common at 20° to core  
local sericitic alteration

Hematite, quartz-epidote, sericite,  
zeolite veins

71-6

overall: - Slightly altered, veined, Skeena quartz diorite

overburden

zeolite, calcite, sericite,  
chlorite veins. some  
aplite stringers

veins  
zeolite relatively  
prominent

late stage shear zone  
suggested by T.S.

MoS<sub>2</sub>, epidote veins

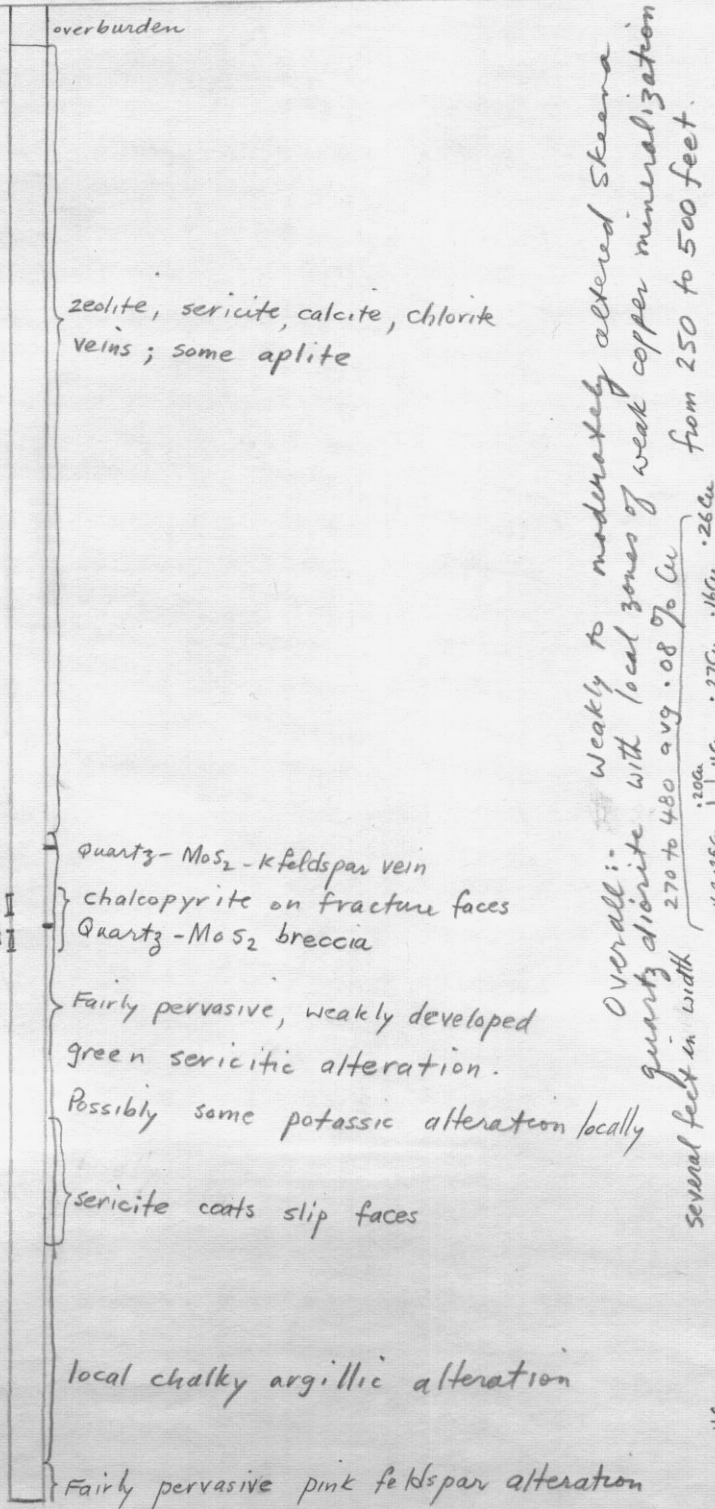
T.S. 203 plag → calcite + clay (?) mafic → calcite + epidote  
(mixed green & pink fs)

T.S. 346 plag → ser., some  
(greenish) epidote  
mafic → chl + ep + opaque  
or chlorite

71-7

71-8

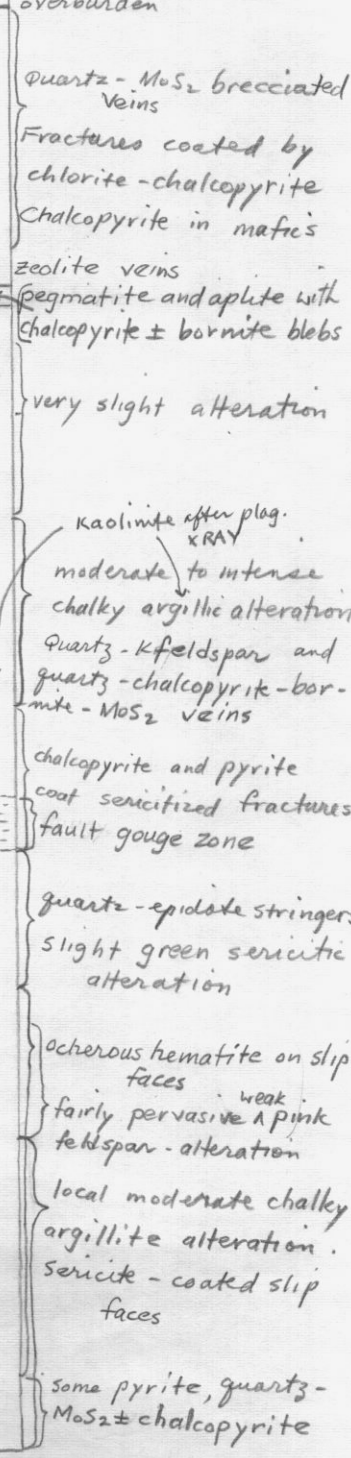
overall: Weakly altered Skeema quartz diorite



Overall: Weakly to moderately altered Skeema quartz diorite with local zones of weak copper mineralization from 250 to 500 feet.

several feet in width

270 to 480 avg. 0.08% Cu



T.S. 279 subhal quartz termination overgrown by bornite

SHEBA

71-9

71-10

.44 Cu  
 .23 Cu  
 .16 Cu  
 .11 Cu  
 .11 Cu  
 .20 Cu  
 .10 Cu  
 .25  
 avg. .11  
 Cu .15 .04  
 over .11  
 120' .08  
 .12  
 MoS<sub>2</sub> .19  
 .12  
 .015  
 same  
 interval .18  
 .23

overburden

the rock is unaltered or has weak green sericite alteration  
 sericite alteration along slips  
 Mafics fresh or chloritized

Quartz - ochreous hematite - calcite veins

Quartz - MoS<sub>2</sub> - bornite - chalcopyrite veins

Quartz - sericite + bornite - chalcopyrite veins  
 slip faces with associated sericite alteration are coated with chlorite and hematite containing disseminated flakes of MoS<sub>2</sub>  
 Local intense argillic alteration  
 Quartz - calcite - MoS<sub>2</sub> veins and quartz - chalcopyrite - MoS<sub>2</sub> - pyrite in fractures

Pink alteration zones common associated with chlorite - epidote veins which carry chalcopyrite and pyrite  
 Hematite veins, sericitic alteration along fractures

pervasive and  
 Pink alteration also associated with quartz - sericite - chalcopyrite - MoS<sub>2</sub> veins

rock relatively fresh, local pink alteration, local aplite stringers  
 Calcite veins common, quartz - chlorite - epidote veins occur  
 Local chalky argillic alteration, quartz - MoS<sub>2</sub> veins

overburden

Iron oxide, copper carbonates, chrysocolla

Relatively unaltered rock with local argillic alteration zones. In fault gouge argillic alteration is intense. Zeolite veins, some aplite stringers

intermittant foot-scale gouge zones

some aplite stringers and thin porphyry dykes

aplite stringer swarm with quartz - chalcopyrite - MoS<sub>2</sub> veins relatively unaltered rock with local green sericitic alteration zones. Some malachite. Quartz - chalcopyrite veins with pink alteration halos occur and chalcopyrite occurs as a replacement mineral in the mafics. Chalcopyrite and chlorite coat fractures. Local quartz - epidote - chalcopyrite veins

Iron oxide and malachite in fault gouge

pink plagioclase porphyry

Overall :- Fairly pervasive alteration

T.S. 85 aplite cut by Qtz  
 plag. ppy stringer  
 some plag in aplite sericitized

533 quartz - poor, vuggy plag  
 rock. Plag pinky-white  
 plag -> clay ± sericite  
 chl - ep - sericite ± calcite  
 vugs

12/1/65

# SHEBA

71-11

71-12

overburden

relatively unaltered rock but argillic alteration along cracks

epidote and calcite coat slip faces  
zeolite veins fairly common

local iron oxide and malachite stain

moderate green sericitic alteration

calcite, zeolite veins

quartz - epidote veins

Cu  
 .11  
 .14  
 Cu .78 over 50'  
 1.21 over 30'  
 1.05  
 1.46  
 1.12

shear zone, flaky sericite gouge with hematite  
calcite, gypsum(?) and bornite  
Kaolinite

local pink alteration zones,  
zeolite and calcite veins

intense chlorite-sericite alteration and  
shear zones with associated chalcopryrite  
and bornite

T.S. 254: plag → clay  
 mafic → chlorite

381  
 485: similar in some ways to 10 - 533

qtz - poor  
 Plag (dark green) → ser + calcite  
 sericite - carbonate - chl. pockets

485 quartz - poor

plag (pink or green) → chl, calcite, sericite  
CALCITE INTERSTITIAL

492 Breccia Tour, cal., hem., chl., ser, apatite

514 plag rel fresh mafic → chl  
 contains finer grained areas of intergrown qtz - cal - feldspar

SIMILAR

overburden

relatively unaltered rock

chlorite-epidote on slip faces

chlorite-epidote veins with pink alteration ~~cores~~ rims

some zeolite veining

hematite coats slip faces

local weak pink or green alteration

some zeolite veins and chlorite stringers with pink alteration rims

Cu

cu .45 over 20'  
 .18  
 .72

shear zone, intense flaky sericite-chlorite alteration containing disseminated chalcopryrite and bornite  
 argillic alteration in gouge zones

calcite in vein-sheared so looked like sericite