

012532

LEO Libn  
Geology notes

Leo Lion Group 2 July '70

Geol. Traverse # 1

photo 12267-24

ole 1

- is just east of L.L. claim group
  - rock is mainly a coarse-gr. bio granite
  - mainly fresh but altered in a few places (A)
    - ~ 10% bio.
    - ~ 3% hbd
  - some phenocrysts of orth. but mainly equigranular
  - cut by leucocratic fine-gr. aplitic dikes ~ 2-4" across
    - ~ 55% orth.
    - ~ 45% plag.
- sample LL1

further up, a phase of non-mafic containing, leucogranite with very altered cherty felds

- globular qtz grains
- mylonitic calcites in west
  - sample 112
  - extends ~ 300' along outcrop
  - back into bio qtz
  - aplite like in pyrite
  - sample 113

qtz #2

- fresh cr. q. bio. granit
- very little alteration of plagi + orth in some places.
  - equigranular.
  - ~ 8% bio.
  - ~ 1% hbd.
  - faint fracture cleavage - non-penetrative  
~ 070/055
  - aplitic phases cutting main mass
  - white, microcrystalline
  - sample 145
  - nonpenetrative fracture cl.  
at 130/90
  - joint system ~ horizontal
  - well space - could have

- microcrystalline texture in feldspars  
of aplite dike  
sample 4.6

aplitic phase + med. - gr. qtz  
fracture fillings ~ 2" wide  
altitude 1028/90

### stop 3

- mainly float on N  
sloping side S of creek

- rock is a siliceous (~55%  
qtz) granite

- feldspars very altered  
sample 4.7

- float not too far from  
etc.

- some very rusty altered  
aplitic phases.

- contact between Schepied leuco
- gr. (altered) + bio ofe rumb 2 S  
here
- further on - aplitic & myrmekitic  
texture + py LLB

etc #4

- crs. gr. equigranular bio  
granite
- well cleaved 035/76W
- fresh.
- aplitic dike (2" x) 105/50 S

~ 40% qtz

another aplitic dike: 165/70 E  
- myrmekitic texture

etc 5

- bio pink granite
- crs. grained
- equigranular
- fresh

~ 40% qtz  
ortho > plag.  
bld. < 10%

prominent fracture cleavage 043/8465

sub micro perthitic feldspars

3 July '70

Traverse 2

etc #1

- just west of camp
  - leucocratic granite,  
~ 50% quartz,  
< 5% mica - some places  
micae not present at all
  - equigranular
  - mostly but very little  
alteration of feldspars.
- sample LL9
- very minor amounts of  
this granite
  - where bio, alteration is  
nil

sample LL10

sample LL11

- on large dome north of  
saddle
- still in the same wsty

leucos granite

- coarse-grained
- little or no bio.
- alteration of feldspars in scattered amounts
- stibnite ~~1/12~~ in very sulfidated and altered late dike (3) samples LL12.

- further west

- still in altered leucos granite
- a slate dikes ~ 6" wide contain some py

LL13

etc # 2

- on claim line
- fresh crs-gr. fhd bio granite
- no altered feldsp.
- some rust, however.
- 50% qtz
- 7% fhd
- 3% bio.

Sample LL14

### etc 3

- large outcrop
- very massive, crs. gr.
  - gray to white hbd. bis. gte  
or gte monzonite
  - fracture cleavage: 135/80N

### sample LL15

- not too much of gray gte  
or monzonite
- soon back into bis. granite
- contains some 'black'  
amphibolitic inclusions 4" to  
6" round.

### etc 4

- crs grained hbd bis. gte  
monzonite or granite
- very fresh & gray in color
- ~ 45% gte
- ~ 7% ~~hbd~~ bis. sample LL16
- ~ 3% hbd.
- amphibolite inclusions  
- no rust.

85/46

etc 5

- pink to gray bio granite
- very crs. - gr.
- average grain size ~ 6-7 mm.
- very little hbd.
- very few mafic inclusions
- aplitic dike (1/2" wide) cuts at 085/45N

sample LL17

etc 6

- same granite
- cut by several aplitic dikes
- very fresh + unaltered.

points : 105/80N

samples  
LL18  
LL19

000/00

etc #7

- very altered rocks
- mainly leucogranites whose feldspars are now completely chalky + yellowish white

some syenite phase - usually  
porphyric - also very altered  
and rusty  
samples LL20

421

numerous aplite dikes

whole etc has numerous  
areas of altered leucocratic  
granite alternating with unaltered  
crs-p. bio. granite & also  
many aplite dikes.

- appears that leucogranite  
is post bio. granite & same  
as aplite

- no visible sulfides but  
much rust

5 July '70

Traverse 3 Leo Lion

Leg 1 from east

end of base line 0 to  
Letch castle at 225°

360 ft - large rounded boulder

- transported - very fresh crs-gr  
bio granite - grain size 7 to  
10 mm.

~ 7% biotite

very little altered feld.

~ 40% qtz

- felds pabs all white or light  
yellowish gray - fresh

- continues on to 510 ft

560' - creek tributary flowing N

1750 ft - talus rubble + transp.  
float

1 - fresh crs-gp bio-granite

2325'

- at Scotch castle

- talus all fresh crs-gp bio-granite

- at castle - good fracture sl.!

035/86W

- nearly horizontal joint set

- rock is a white to gray crs-gp bio-granite

~ 45% qtz

~ 90% bio.

~ 10% altered hbl (chl)

- sub-micro perthitic texture in feldspars

- generally equigranular but some large (> 1 mm) feldspar phenos.

Sample LL22

minor amphibolitic inclusions 2-3" across

Log # 2

from castle in 265° direction

- cr. bio. qtz boulders

345' - boulders of very altered rock - plagi + ortho all gone

- rusty

- leucogranite

~ 50% qtz

- no bio. or bcd

- contains py

samples LL22

(3 pieces)

- altered leucogranite with cleavage - rusty

- white → yellow feldspars

sample LL23

Log 3

northerly direction for 380'

- quickly back out of altered leucogranite

735' → 950' - mainly  
leuco-granite (altered) with some  
'cooked' bio-granite boulders

~1000' - true outcrop  
- back into syenite  
- pink, rusty feldspars  
+ no Qtz  
- very altered in most  
places

sample LL25

- cts. grained + partly  
porphyritic  
- no mafics present  
- some sol'n cavities

Leg 5

Bearing 223°

0 → 50' - syenite

~50' very altered - contains  
very finely disseminated  
metallic mineral (??)

sample LL26

~ 150' - very altered rusty  
syenite  
- cavities

- finely diss. metallic mineral  
Sample LK 27

at 200' - into rusty altered  
leuco granite  
- in places, quite siliceous!  
~ 60% qtz

335' - end of etc.

500' → 540' - boulders of altered  
leucogranite

540' sheared, mylonitic, altered,  
leucogranite.

600' - large boulders of  
fresh cr. gr. bi. granite  
also numerous boulders of  
aplitic material.

1000' - east of Habitat  
bench

1275' - aplite dikes  
very fine grained  
microclitic textures  
- very little py in some  
- seem to cut bio. gte

1275' → 1825'

- bio. gte is numerous relative  
to pink aplite dikes - some  
~10' wide  
- at 1825' - aplite becomes more  
coarser-grained - now a med.  
gr. pink leucogranite - fresh  
and unaltered  
sample LL28  
LL29

- exposed ~100' along line  
+ ~500' N-S - aplitic phase  
- gets rather med. - gr - but  
still has saccharoidal texture

1950' - back into fresh co-  
gr bio. granite

2150' - fresh bio crs. qz. granite  
good fracture cleavage 095/90

2400' end of str.  
- only boulders from  
here on

2725' boulders of crs. qz.  
bio qtz  
- fresh - massive  
- boulder of same

4485' - str. - near #1  
+ #2 ential posts of Tom Tiger

- some crs. qz. bio. granite  
fracture cleavage 075/90

- some silicified leucogranite  
- goes off into H.T. side to  
the south - just crosses onto  
L.L.

- this rock contains ~60% qtz  
- altered feldspars, rusty corries.

no visible sulfides  
sample 430

Leg 6

Bearing 344 from T.T.  
posts 1 + 2

100' - end of silicified  
leucogranite outcrop  
- small boulders of  
cs-gr. bio. gte

180' - fresh gray to white  
cs-gr. bio. granite

415' - cs bio. gte  
- well cleaved (fracture  
- nonpenetrative) at 175/90

few white aplitic dikes

655' L.L. # 48 + 49 down  
posts

415'-655' - cs-gr. bio. gte  
boulders - large - huge even.

950' - still etc of  
crs - gr - bio - granite  
fracture cleavage 052/90  
horizontal joint set  
- fresh, unaltered granite

1030' end of leg - still  
in same rock  
- goes on in same direction  
for about 200-300'

Leg 7

Bearing 070° 1:20 P.M.

50-90' - a leucogranite  
dike (?) or phase (?) - rusty  
- altered feldspars - mol of  
quartz

495' - altered leucogranite  
- cavities - secondary  
qtz abs - rusty

90-490 - fresh bio qtz - crs - gr

sample of leucogranite  
1431

500' changes to altered  
leucosyenite - no mafics  
- very rusty & sol<sup>n</sup> cavities  
sample 1432  
at 500'

600' - boulders of crs-gr.  
bio. granite  
- on top of syenite?

700' etc of fresh bio.  
crs-gr. granite  
- some aplite dikes

1500' still in fresh  
white to gray crs-gr bio.  
granite  
end of leg, 1500'

Leg 8

Bearing 037°

0' → 475' - cs. q. bio. granite  
- some fine-grained aplite  
dike  
- fresh

1075' - still in cs. q.  
bio. granite  
- fresh

1390' - end of cs. q. bio.  
granite outcrop  
- now into boulders

1855' - boulders of cs. q.  
bio. granite  
~ 40% quartz  
~ 8% bio.

- just west of Habitat  
on class here  
1-2% hbd - altering to  
cht.

2300' - altered leucogranite  
boulders mixed with  
rounded, little altered  
crs-gr. bro. granite.

2370' - cherty, mylonitic  
altered leucogranite with  
pyrite  
sample (433)

2375' - brecciated + sheared  
siliceous rock ± py  
sample (434)

2445' - frost foot brings  
up chips of altered  
siliceous leucogranite  
- rusty  
- no sulfides visible ↗

2510 - same as above

3065' - large crs-gr  
bldgs & boulders

3305' frost had burrowed  
up well altered crs-gr  
leuco granite  
- amongst large boulders  
of bio granite gneiss

3705' frost had  
- altered crs-gr  
leuco granite

4450' - etc of rusty  
altered leuco granite  
sol'n cavities

4580' - into crs-gr  
bio granite  
- only slightly altered  
& cooked

5000' - end of leg  
in crs-gr bio granite  
boulders  
- some leucogranite boulders

## Leg 9

Bearing  $340^{\circ}$  - along saddle

175' - end of crs-gr  
bio-grt boulders.

615' - crossed O-base line  
pickets

910' - leg ends

- etc of granite  
- pink  
- crs-grained.

- rusty but not  
altered much

- good cleavage:  $115/77N$

## Leg 10

Bearing  $060$  - Towards  
camp.

245' - boulders of altered  
rusty leuco granite

650' boulders of leucogranite  
with ~ 3% fresh bio.  
- crs. gr. & fresh  
~ 40% ptz

770' - fresh pink leucogte  
~ 30% ptz  
- crs. gr.

1425' - boulders of leucogranite  
~ 40% bio  
- crs. gr.  
- fresh.

1600' - boulders of leucogranite  
no bio.  
- fresh + crs. gr.

2000' - NE corner of  
LL claim group  
- boulders of fresh,  
mica-free, crs. gr.  
granite  
- on SW north  
cross line - end of

Leo Leon  
Traverse 4

6 July '70

Weather: threatening rain

NE corner of claims Leg #1 Bearing 250°

000' pink leucogranite  
with phases of leucosyenite

- Crs. - grained ~ 5 mm.  
grain size

- not as fine as bio granite

- good cleavages in boulders

- can't measure

280' - etc ends

- boulders of leucogranite  
in places up to 15% bio

- no ptl

~~etc~~

500' altered leucogte boulders

- no mafics

feldspars chalky

680' - altered leucogranite etc

- some altered bio relicts

as well  
~ 40% qtz

815' - altered leucogranite etc.  
- note altered bio ~ 4%  
sample LK35  
- crs. grained

1000 → 1050' - crs. gr. bio granite  
pieces

1435' - etc - beginning of dome  
- leucogranite to pink feldspars  
~ 45% qtz  
- fairly fresh - hematite  
in feldspars.



1860' - still in leucogranite  
- pink  
~ 45% qtz

2230' - fresh pink leucogranite  
- good milky → bluish  
qtz

- some altered phases

2745' / end of leg <sup>in c/s + leucogite</sup>  
Leg 2 Bearing 255°

o - 2750' - bio-granite  
c/s-grained  
- altered in places.

2660' - W of creek  
- leucogranite boulders  
~ 3% biotite

4300' - boulders of fresh  
bio granite - pink  
~ 7% bio  
~ 40% qtz.  
- c/s-grained.

4690' - on top of small  
ridge  
~ 550' NW of etc  
- boulders of c/s. bio granite

line off to left  $\sim$   $5^\circ \therefore 250^\circ$

5770' - boulders of  
bio granite

- pink crs. gr.

$\sim 6\%$  bio

$\sim 45\%$  qtz. |

6620' - end of line

- on knob between

two tributaries

- boulders of crs. bio granite

- fresh

- some contain amphibolite  
inclusions

Leg 3  $240^\circ$

from knob to claim post.

755' - still in crs. bio  
granite boulders

1340 - cross creek

1580 - large boulders of  
crs bio. granite

2130' large boulders of bio  
granite

3250 - meg claims  
5, 6, 7 + 8  
↑ ↑    ↓ ↓  
#2    #1

3380 - etc of bio granite  
with some altered  
leucogranite

3400' end of leg  
leg 4

Bearing  $137^{\circ}$

450' - boulders of ms. gr.  
bio. granite

1500' - end of leg  
boulders of ms. bio. gr.

1340' - boulders continue  
to here  
- claim posts

2915 - claim posts  
- rounded boulders of  
bio granite - etc.

3455' - black, cherty  
brecciated rock boulders  
samples 436  
(2 pieces)

Leg 5

Bearing  $065^{\circ}$  to L.L.  
claim post.

at post  $\sim 1000'$   
claims 19 + 20  
posts # 1

Leg 6

Bearing  $090^{\circ}$  - along claim  
line.

790' - large boulders of  
fresh but granite  
crs-grained

1340' boulders continue to few  
claim posts

2515' - claim posts  
rounded gte boulders

3455' - black cherty  
brecciated rock  
with specks of py  
samples LL 36  
(2 pieces)

3705' - claim posts.

4290' - large boulders of  
cr. gr. bio. granite

4905' - claim posts  
end of log.

10 July '70

Traverse 5 from second  
camp location  
- on Crown

Log 1

000 - at S end of old No. 1  
camp  
bearing  $308^\circ$  to  
small lake.

1530' - boulders - angular -  
of a lightly altered leucogranite  
~45% qtz  
- feldspars altered some  
- cubes of  $HfO_2$  after py

1865' - angular boulders of  
crs-gr. leucogranite  
grain size ~ 6 mm.  
rusty  
- very little alteration  
- some biotite - altered  
~ 2%

- some secondary qtz
- silicification?
- granular, sub-amorphous

2175' - angular leucogranite  
boulders

- altered mica
- some py
- re-crystallized qtz in fractures

sample C-1

3430' - at creek by Bingo  
Lake

- good fast H<sub>2</sub>O in  
creek

End of Leg at lake

NW shore of Bingo:

- high wall of otc + rubble
- mainly fresh bio granite
- cis-glaucous
- NS 1/2 bio

rusty in places but no  
attention

microfault: 005/50W

Leg 2 - up the  
creek from site

185' - outcrop of bio. gts  
- crs. - grained  
~ 5% bio.  
~ 40% gtz

fracture cleavages:  
148/66W

045/76NW

280' - end of stc exposure

345' - boulders + stc of  
gray crs. - gr. bio.  
granite  
sample C2

500' - boulders - small - of  
rusty leucogranite

- some pyrite

- altered feldspar

sample C-3

- some very schiefed rusty  
rocks in py

sample C-4

very altered, schiefed leuco-  
granite in part of grains

- some yellowish stain

sample C5

790' - cross claim line

line at 1/5° - just above NE  
tributary

830 - boulders of bio  
qtz - crs  
- fresh.

1455 - boulders of fresh  
crs bio granite

1650' etc of crs. bio  
granite  
fresh  
~ 7% bio.

2185' same - boulders

2365' - boulders of  
crs. gr. bio. granite  
fresh.

2800' - NE side of creek  
- etc of crs. bio granite  
- also boulder  
- in creek, some rusty  
altered leuco gte boulders

3090 - etc of crs bio gte  
continues to here  
- then mylonitic granitic  
succed. i cherty  
aphanitic matrix (dark)  
+ fragments of  
granitic material

sample LL37

- pyrite in small amounts
- width of zone:  $\sim 20'$
- brecciated + mylonitic zone just at NW end of first bio qtz etc at 3090'
- qtz appears to phase into very shaly zone.

sample LK38

- pyrite - in breccia
- aplitic dikes cuts breccia - fresh.
- possible direction of brecciation is  $\sim 005^\circ$

3165' - fresh res. qz  
by granite etc.  
- good cleavage  $045/60W$

3500' - fresh res qz-gte  
boulders  
- NE side of creek

3825 - otc of fresh  
bio gte  
res. p.  
clearage. 032/75W

4150' - at a fork of  
creek - first one above  
pt where claim line  
cuts across creek  
- end of leg here.

Log 3

following eastern  
fork - West side of,

305' - boulders of well  
altered leucogranite &  
some py  
- vein of very cherty gtz  
sample LL39  
~ 50% gtz  
- no on. pic  
- very rusty

435' - boulder of rusty  
crs gr. syenite  
sample 2240

835' - crs gr bio. gte  
boulders.

1770' - at 30, 38W  
base has picked

1975' - large boulders of  
crs bio. granite

2000' - boulders of altered  
rusty leuco-granite  
crs. gr. ~ 6 mm. grains

2320' - on top of ridge  
- boulders of bio. granite  
+ etc of altered leuco gte  
- rusty  
- cavities.

leg ends on syenite  
old  
sample 2241

Log 4

000: 265° from castle  
45° from Habitat  
- on eastern contact of  
sy  $\bar{c}$  leucogranite.

Bearing: 112°

480' - boulders of cor. bio.  
granite.

955 - same

1500' - large area of large  
cor. bio granite.

1665' - small boulders  
of altered leucogranite  
in first bed  
- rusty

1975' - area of large  
cor. bio granite  
boulders  
- at picket 30S, 17W

2835' - small areas  
of altered leucogranite  
in fresh, but abraded  
bio granite

- beginning of long' etc.  
end of leg.

Leg 5

Bearing 125°

000' → 750' - etc of bio-gr  
bio granite

750' - 990' - boulders of  
bio bio granite.

1330' - bio-gr - bio. gte  
boulders.

2100' - 2200' - bio-gr. bio  
gte boulders.

2760' - crs gr. bio. gte  
boulders

3180' - at creek  
end of leg  
- boulders of crs bio  
granite.

Log 6.

Bearing 180°

1100' - boulders of crs.  
bio - granite + piece to  
med. gr. alaskitic  
asphalt - latter is kenozo-  
neatic - fresh.  
sample C 6

1400' - boulders of crs bio  
gte  
~4000 ft

2090' - beginning of otc

- altered leucogranite c  
~ 50% altered, rusty  
biotite

- rusty

- co-grained

sample C-7

very cherty / silicified phases  
- sample C-8

- some phases of fresh  
bio granite:

- biotite?

sample C-9

2160' - end of log

in altered leucogranite

- some fresh phase  
~ 40% bio.

- rusty

Leg. 7.

Bearing 165' to camp.

275' - claim line  
(crown)

900' - fresh cr. bio. gr.  
boulders

1225' - altered leucogranite  
boulders - frost bed  
- rusty  
- cr. gr.

1945' - etc of fresh bio  
granite - near camp  
- cut by small aplitic  
dike

2000' - end of line on  
etc.

11 July '70

Traverse #6

light overcast

Leg 1

Bearing at  $308^\circ$  from North  
Shore of Pingo Lake.

440' - crs. - p. bio. granite  
~ 70% bio.  
~ 45% qtz  
- egru granular  
~ 6 mm grains  
- may be etc

775' - boulders of crs.  
bio. granite  
~ 30% ~~hd~~ altered  $\rightarrow$  chlorite  
~ 40% bio  
- fresh feldspars.

1465' - boulders of fresh to  
slightly altered leucogranite  
± pyrite  
- rusty, cr. gr.  
pea gtz  
sample C10

some boulders of 'contact' (?)  
1500' variety - Mn stained, cloudy  
feldspars, smoky gtz crs-gr  
bio. granite  
sample C11.

- fine to med-grained, equigranular  
leucogranite (ie C-10)  
may be a chilled border  
rock - contains some bio (v1%)  
& is rich in py  
- massive, hard & fresh

1548' - boulders of siliceous  
leuco granite - very altered  
feldspars  
~ 75% gtz  
sample C12

1630' - boulders of leucogranite  
 some alteration  
 - rust.

1785' - boulders of leucogranite  
 - very altered & rusty  
 - chert  
 - ss. - q.  
 - sample C13

1890' - brecciated leucogranite  
 with abundant  
 secondary quartz &  
 cherty matrix & some  
 diss. py.  
 - sample C14  
 - boulders!

1960' - altered ss.  
 leucogranite & rusty  
 pyrite  
 boulders

2035' - breccia  $\bar{E}$  pyrite  
- cherty, dark matrix  
granite fragments  
- mylonitic  
sample C15

2050' - escarpment  $\approx$  50' up  
- linear? check photo  
for N-S structure

2150' - altered leucogranite  
boulders  $\bar{c}$  3% altered  
mica  
- rusty

2915' - silicified leucogranite  
boulders in frost oval  
- rusty

4000' - at claim line just  
east of 3 posts

4060' - boulders of fresh  
bi. granite  
- cross gr.

4190 - boulders of crs.  
well altered hence  
granite & fresh  
quo. granite.

5000' - steep up  
- boulders of fresh to  
slightly altered hence  
granite  
rusty & some (22%)  
altered bio.

Some fairly altered  
boulders & cavities  
sample 1142

15150' - etc of fresh  
pink bio. granite  
~ 4% biotite  
- crs grained  
cleavage: 033/55W

5630' - large boulders  
of crs. bio. granite  
- continuously to etc

6000' - end of leg  
- beginning of otc  
- fresh ss bio. granite  
fracture cl. 025/85W

~ 50% qtz  
< 10% bio.

Leg 2 bearing 205°

000' → 450' - boulders of  
ss bio. granite part  
of otc

450' end of leg.

leg 3

Bearing: 128°

300' - boulders of  
fresh aplite & boulders  
of fresh bio. granite

375' → 500' - slightly altered  
+ coiled cros bed. granite  
= some leuco granite  
(outcrop)

500' → 585' - rusty leuco-  
granite - end of late.

590' - boulders of mylonite,  
brecciated granite  
= py + cpy

LL43

LL44

LL45 (5 pieces =  
py + cpy)

- boulders scattered in  
170° direction ~ 50' wide  
and 200' long
- all around are boulders of  
leuco granite  
~ 300' in 248° direction there  
are also mylonites +  
breccia = pyrite - leuco-  
granite = minor leuco  
pyrite continues in that direction

- breccia doesn't seem to  
strike in any direction - pipe

690' - mylonitic, stained  
silicified rock boulders  
 $\bar{c} \sim 1-2\%$  py

sample LL46

700' - brecciated granite  
boulders  $\bar{c}$  pyrite

700' - 750' mylonite + gr.  
breccia  $\bar{c}$  py

750' cross linear <sup>seismic</sup> at 175°  
fault??

1020' - boulders of altered,  
silicified leucogranite  
- cr. gr.  
- rusty

1705' - boulders of  
med.-gr. bio granite  
- very fresh  $\bar{c}$  some  
alabaster Rx - close to

contact?

45 - 50% quartz  
~ 3% biotite

1970' - fine-grained  
leucocratic granite  
- magnetite  
- boulders  
- near contact?

2100' - white, altered,  
leucocratic - med.  
grained  
- rusty - cavities  
- border rock?  
- massive

2540' - med. - grained pink  
alaskitic contact granite  
very little biotite  
boulders

2850' - med to fine  
grained pink, aplitic or  
alaskitic granite boulders

3000' - still boulders of  
same.

3400' - same & some  
mea.  
- very fresh.

3535' - same but  
now rusty & py

4290' - very fine grained  
granite - some bits.  
- Steaky -  
- boulder  
- must be new contact

5350' - at Kings Lake  
- last 1000' off to  
left  
- no boulders or  
etc.  
- end of leg.

Traverse #7

12 July '70

Weather . CAVU.

Leg 1 bearing  $265^{\circ}$   
from Pingo Pt.

~~675'~~ - boulders of med.-gr.  
garnet-hbd gneiss  
some pyrite

1690' - end of leg on  
rounded block  
- amphibolite - amph. gneiss

Leg 2

Bearing  $305^{\circ}$

415' - boulders of amphibolite  
or hbd gneiss  
& some py

500' - reckon 2m at contact  
- boulders of schistous

hybrid rock, rich in qtz  
+ barren qtz veins

1135 - crossed claim line

1350' - boulders of fine to  
med-gr. biotite granite  
border type

2605' - boulders of med. to  
crs. bio. granite  
- fresh.

3875' - large crs bio gne  
boulders

4110' - alc of crs bio granite  
~50% qtz  
~7% bio.  
- fresh, unaltered

4375' - end of by  
- in boulders of fresh  
bio. granite

Leg 3

Bearing:  $248^{\circ}$  towards  
T.T. posts 1 + 12 claims

1055' - large boulders of  
crs. bio granite

1190 - boulders continue  
to here.

2155 - end of leg at  
posts.

Leg 4

down claim line at  
 $270^{\circ}$

350' - boulders of slightly  
altered crs - gn  
granite  
~ 3% bio

- some rust.  
sample L147

1305' - large boulders of  
cr. bio. granite  
- fresh

2655' - boulders of a fine gr.  
pink granite - garnet  
& magnetite

2930' - end of claim  
line

Leg 5

Bearing:  $105^{\circ}$

1450' - fine to med.  
grained pink granite  
boulders

2030' → 3000'

very large boulders of  
cr. bio. granite  
- some fine to med.  
grained pink granite  
boulders as well

3195 - boulders of fine-gr.  
siliceous granite  
- some very gtz rich  
- sample LL48  
- garnet.

3510' - crossed contacted  
mafic boulders of  
dyalitic rock of  
amphibole

3635' - boulders of amph.  
gneiss  
- rusty  
- 1% pyrite  
sample LL49

- still in Torn Tiger

3725 - end of leg in  
amph gneiss - bare  
area covered by  
felsenmeer

Leaf 6 1

Bearing 088°

1060' - boulders of med. to  
fine grained bio. granite  
aplitic texture  
contact type  
sample LL50

1860' - boulders of aplitic  
bio granite  
- border type  
- in creek  
- med. grained  
- fresh & unaltered

2060' - boulders continue to  
here  
- some very leucocratic  
- very little rust + no  
visible sulfides

2390' - boulders of med.  
bio granite

3145 - boulders of fine-gr.  
siliceous granite  
- some very Qtz rich  
- sample LL48  
- garnet.

3510' - crossed contacted  
mixed boulders of  
dyalitic rock of  
amphibolite

3635' - boulders of amph.  
gneiss  
- rusty  
- 1% quartz  
sample LL49

- still in Tom Tiger

3725 - end of leg in  
amph gneiss - bare  
area covered by  
felsenmeer

3475' - boulders of  
red bio. granite

3690' - end of leg in  
creek - east slope of  
swampy - sphre  
area

Rock Geochem  
Selected samples  
Leokion - Lebanon July 1970

<u>Geochem No</u>		<u>Rock No</u>
C57101	breccia	} LL45 LL37
C57102	mylonite	

# Silt

020251

- Ringo Lake  
West side  
(collected by T.S.)

057197

- SW of Castle

(#11)

057195

- S.W. <sup>of castle</sup> + SE of  
Habitat

(#10)

- see

photo

057196

- silt by Ted. S.

(#12A on  
overlay)

{ 0-1

silt

{ 0-2

{ 0-3

} see overlay

{ B12

{ 13

silt

collected by  
T.S.