Glacier Gulch
802592

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R. V. K.
1964

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- shallow [illegible] dip
- mainly bl. argil. S.S.
[illegible] [illegible] or [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ~4500'
[illegible] elv. [illegible] [illegible] below
two small lakes 4450'

to truck - looked at
a few o/c's
med. grey massive
fine S.S. - [illegible]

- ck. truck 4900'

Gen. Notes on area below glacier.
1. Upper bl. seds are a distinct seq. (conformable?)
2. Is a major veinlet stock work in volc. rks. or lower seq. - bleaching adj. veinlets is common
3. Also numerous pyrrho., arseno., chalco. & sphal. veinlets (breccia type)
4. Aplite qtz-porph. dykes are post sulphide & veins — much pre dyke shearing
5. Dykes are also unaltered & may be sec. period min. in Glac. Gulch
6. Ep. alt. or metamorphism
7. Bl. seds. are spotted & [illegible]
8. Lower Sec. could be sedimentary in part

Logging Core
Hole #22 1610' total depth

July 17/64
(afternoon)

1400 - 1410'	0.06% MoS_2
1600 - 1610'	0.02% "
1610 - 1620'	0.02% "
1620 - 1630'	0.02%
1630 - 1640'	0.02%
1640 - 1650	0.02%
1650 - 1660	0.10%
1660 - 1670	0.04%
1670 - 1680	0.02%
1680 - 1690	0.02%

1610' START OF LOGGING - 1661'
pale green grey aplitic or porcelaneous material approx. 15% biotite (dark brown fine grained) on fractures & in brecc. areas.
~ 2-5% pyrite dissemin. & in veinlets, trace moly.
- some chalco. veinlets
- core is magnetic
1616.5' - START 1/4" & 1" qtz. veinlets - high angle to c.a.
borders of qtz. veinlets, silvery, whitish, gn. ser. commonly pale gn. aplitic halo to vein.

1-2% calcite in vein. veins generally barren, minor moly & pyr. — some qtz. crystals in vugs, approx. $\frac{1}{3}$ vein/ft. most contain yell. g.n. fluoresc. mineral, Moly bearing scheelite? Over all core may contain $\frac{1}{8}$ % scheelite?
Some brecc. biotitic areas — fault breccia?

$1639\frac{1}{2}$' — 3" qtz vein, 4" pale green halo on either side
-whole core ave. 3-4% pyrite, $\frac{1}{4}$ % chalco., trace amts moly. (+ magnetite & scheelite)
-same blotchy, pale grey & pale green, with dark-brown biotitic areas porcellaneous, a lt. volc. rock.
1645' — spec. typical (w/ small veinlet & bleach halo)

— no qtz. eyes

1647' - rock becomes more biotitic ~ 30%, dark brown
1648' - $\frac{1}{16}$" qtz. moly, pyr, veinlets w/ $\frac{1}{8}$" halo (on both sides) of K-feld.
1653' - $\frac{1}{4}$" veinlet qtz, pyr., coarse grained moly, very coarse flakes.
1655' — 1" barren qtz. vein. - only $\frac{1}{4}$" halo pale green.
— some areas minute feld. crystals & lithic frags. - silicified & bleached?
1658' - spec. $\frac{1}{2}$" barren qtz. vein w/ clear terminated qtz. crystal (geotherm)
1661' - increase in biotite

1661' —
Dense med. to dark grey, brown, biotitic? volc. rock.
~.4 — 1" barren qtz. veins/ft. - negligible

or narrow halos
- 1/4" moly. bearing veinlets (1669')
also moly. along hairline fractures.

1670' - 1673' - could be fine grained diorite. some frags?
1678' - 1680' - poor core recovery
1686' - ~8 hairline to 1/16" veinlets, minute bleached halos
- qtz, moly, pyr., biotite bearing, no scheelite, but abundant coarse qtz. bearing pyr. scheel. veinlets in this section of core
- core is rich in magnetite
- 30-50% dissem. biotite?
- some rock could be fine metadiorite
1703' - rock becomes med. gray color. w/ less biotite (silicified?)
1719' - 6" qtz. veinlet 2" pale grn. halo either side

1" pyrite xtl., no moly., some scheelite, carbonate.
1722'-1730 - abundant hairline 1/16" stringers of magnetite.

1724' - spec. magnetite & veinlet & typical wall rock
1728' - 3/4" qtz. veinlet w/ scheelite, chalco & gypsum?

[illegible] 1610' - 1730'

Types Veinlets
1. (Late?) coarse (1/4"-5") conspicuous qtz. veinlets
- contains coarse pyrite
- carbonate, chl. or [illegible] bio
- scheelite (mainly along borders) - yell. green fluorescence (7.39% Mo?)
- coarse grained (minor) chalcopyr., tr. coarse moly. & unknown (submetallic luster)
- open space filling, coarse grained
- unknown gypsum? & similar min.? minute black specks
- usually or may have small or up to 6" halos pale green alt. with border of apple green sericite
2. Chalcopyr - pyr. veinlets - generally hairline

3. Moly. bearing veinlets - generally hairline to 1/8" - usually with qtz. & pyr. (often + anhydrite)
- usually in fine grained - evidence of replacement in some instances
- moly. may be along edge of veinlet
- a few seem to have feldspathized borders
- may contain biot. mafics & ?? ?
- some seem to contain little or no qtz.

4. Other veinlets
- magnetite (± qtz)
- barren qtz. & mafic veinlets

<u>Country Rk.</u> -
- mainly blotchy - med grey (light) & dark brown (bri.), dense, altered, bleached ?? feldspathized volc. rk.
(4-33 ? KAB?) - all same general type

<u>Core Logging</u>
<u>D.D.H. #28 - 1728' -</u>

July 18/69

<u>1728'</u> start logging of core - 1748'
same med. gray-brown, dense volc. rock.
1743' - 4" vuggy qtz. vein contains scheelite along borders but otherwise barren. ; pyr. in wall rock.
- spec. - qtz xtls in geothermometry.

<u>1748' - 1758'</u>. - med gray qtz. felds. biotite porphyry.
~15% - 1-10 mm. felds. phenos.
~ 6-7% 1/2-3 mm biotite phenos.
~10% 1-3 mm qtz. phenos
cut by biotite ; Kfelds? & chalco. veinlets, pyr veinlets, qtz. veinlets - generally qtz. is barren (late type?)
minor moly & scheel. in veinlets
trace amts pyr + chalco. dissem throughout rock
3-4%? granitized inclusions.

1757' - spec. showing veinlet

1758' - 1768' - same med. grey brown, dense hornfelsed volc. rock.
~7 veinlets/ft. mainly hairline w/ minor moly.

1761' - spec, typical

1768' - 1791

- hornfelsed, trapdyke dark biotitic brown, fine grained bio. is visible
~10 veinlets/ft - mainly hairline, minor moly, abundant pyr. & chalco. chalco. & pyr. in lenses & clots
qtz, bio. hornbl.? pyr, scheel?, moly, veinlets & unknown minerals also chalcopyr.
~every 5-6' - one 3/4" to 3" bull qtz veins minor coarse grained moly.
1775' - spec.

1791' - 2783'

same med. tolt grey, dense alt. volc. rock.
1822' - 6" hornfels trap. dykes.
1842' - 1848' - darker brown sections (incr. biotite)
1792' - 1817' - fair moly.
4 veinlets/ft. mainly hairline to 1/16" some trend same direction as core.
coarse & fine moly especially in biotitic areas small leach zones adjacent veins.
minor lime in veinlets ~1/2 - 3% scheel. in core probably other carbonate mineral in vein besides calcite
unknown brown mineral in veinlets similar to 1775'

1857' - 1/2" coarse grained calc. veinlet, minor qtz.
same volc. rock minor feld xtls, pass.

some lithic frags. - mottled appearance bleaching & gains veinlets
~ 2-3% pyr. throughout core
in vicinity of 1892 on numerous qtz. veins ¼" to 1" contain terminated qtz. xtls.
~ 4 veinlets / ft - only trace mgly & minor other sulfides
1920½' - 1923' - hornfelsed trap dyke
1938' - can see ~ 3-4% fine wh. feld. & 20% lithic frags? (1-2 mm) abundant dark biotite in matrix thru this section of core ~ ½-3% scheel 2-4% pyr, minor moly. & other sulfides
1938 on - can see feld. xtls up to 20% & some lithic frags - comp changes quickly ∴ would guess a series of tuffs, rocks are qtz. poor, contacts are not obvious

1976' - coarse pyr. qtz. carbonate vein, some moly. w/ terminated pyr. xtls.
1976 - spec.
2007' - ¼" K-feld. veinlet? (hard) pyrite in halo some material could be feld. porph. flows,
2019' - spec. for [illegible]
2036' - lamination nearly perpend. to core (? origin) could be bedded tuffs
2042' - 2056' - moly veinlets seem to be truncated by coarse band qtz. pyr. veinlets
2042 - spec.
2063' - ~ 2114' is definitely fine feld. bearing (~ 10%) med. grey (~ 10% meta biotite? (spill tuff)
- after 2114' becomes bleached & alt, so can't be sure of rock's nature
2127' - ~ 6% wh. feld. in dense matrix. ~ 8 veinlets / ft. hairline to ¼" - only minor moly

SOSOS only more bleached areas (2130'on) some areas feld. xtls. in dense matrix - could be flow or tuff

2204' - same rock only slightly paler grey, few feld xtls scattered throughout dense matrix, fairly homogen. so could be flow
- many hairline fractures w/ bleached halos
m/gran. moly.

2273 - ¼" clot, magnetite

2278' - 2308'? - magnetite veinlets w/ qtz. & trace amt sch. cpy.
- some rock
- some lithic frags.

2308' - ¼" moly veinlet w/ 1/16" only minor qtz.

2310' + typical of feld. bearing material & veining
some areas can see fine lithic frags.
- spec.

2322' - chalcop., pyrrh., & pyr. qtz. veinlet
- spec.
? if pyr. is in contact w/ pyrrh.
only pyrrh. seen thus far

2323' - at least 2370' - can see lapilli sized frags but maybe some comp. as matrix - ~2-10% feld.

0351 1/16" magnetite, qtz., veinlets, & chalcop., magnetite qtz. veinlets - all core is med. grey brown

2384' - ~10% pink & white feld xtls 1-2 mm. med gray matrix, minor metabiot. similar Ky 12 type volc. porph., but can see fine lithic frags in some areas
- minor moly

2404' - feld. phenos are becoming coarser 2-3 mm. definitely looks like flow.

most coarse feld. ends at
2419' and at 2839', coarse
qtz veinlet w/ abun-
dant coarse moly
& some coarse pyr.
moly is intergrown
w/ pyr.
abundant magnetite in
core veinlets & dissem.
only trace amts. scheel.
minor epidote at 2442'

probably 2450' - still see feld
xtls & questionable
frags - rock could be
highly silicified
- fine grained to
aphanitic sugary
texture
2470' - feld. porph. seems
to occur as large frags
(2") - some feld in
matrix.
2484' - 2521' - areas can
see abundant frags.
- feld. bearing
lap. tuff?
~ 8 veinlets / ft
hairline to 1/16"
~ perp core - a few

|| core
qtz. pyr. mag. minor moly
& chalcop.
- mainly dense to 2580'
and some areas rich in
metabiotite
1-3 mm (~10-15% feld
crystals)

2563' - spec. fairly typical
abundant mag. in core
2579' - 1/4" qtz. - magnetite
[illegible] chalco - [illegible]
qtz. is commonly [illegible]

2604' - 2605' - med. grey
qtz. feld. biotite porph.
~70% dense matrix.
same as porph. country
rock (medium grey)
2610' - some type of banding
~2625 - 2640' - banding seems
to be flow layering
1 small isoclinal fold?
2626' - spec. shows banding
around 2670' - core contains
~1/2 - 1% scheelite
abundant mag. in core
up to 1/4" veinlets (?1-5%)

feld xtls continue to

contact at 2783' but becom
fewer & fewer toward cont
only 1-5% near contact
(a few areas 10%)
- less & less moly toward
contact - almost negl.
am'ts near contact
2770' - ~6 veinlets/ft
hairline to 1/8"
- no obvious moly
- pyr & minor chalco.
~3-5% pyr in core
core is still magnetic.
~1/4-3% sheel (same
am't in granite).
- contact is sharp.
- country rock doesn't
noticeably change near
contact.
2782' - spec. (walked)

2783' - to end of hole
2784 - spec.
- granite is pale pink
color - med. to coarse
grained - porphyr. (~
10% 2-10mm K-feld
phenos.
matrix is medium
grained

~7-8% biotite
abundant qtz - ~1-2%
granitized inclusions
rock is generally
homogeneous & fresh
- no obvious change from
contact
- contains ~1-3% pyr.
- cut by ~1/4% qtz veins
1/4" to 1/8" which contain
pyr & in some cases
coarse abundant moly
- only trace sheel in core
- some areas w/ magnet-
ite.
2792' - minor kaolinize & f
feld.
2846' - typ. spec. except
for coarse grain
size - would be okay
for modal analyses.

Footage	% MoS_2
4-10	0.09
10-20	0.04
20-30	0.10
30-40	0.03
40-50	0.05

Footage	% MoS_2
150 - 160	0.03
160 - 170	0.02
170 - 180	0.00
180 - 190	0.03
190 - 200	0.08
300 - 310	0.01
310 - 320	0.03
320 - 330	0.03
330 - 340	0.02
340 - 350	0.03
500 - 510	0.06
510 - 520	0.08
520 - 530	0.10
530 - 540	0.03
540 - 550	0.15
2600 - 2610	0.02
2610 - 2620	0.03
2620 - 2630	0.05
2630 - 2640	0.01
2640 - 2650	0.02
2750 - 2770	0.03
2770 - 2780	0.03
2780 - 2790	0.01
2790 - 2800	trace

Footage	% MoS_2
2800 - 2810	trace
2810 - 2820	0.02
2820 - 2830	0.01
2830 - 2840	0.14
2840 - 2851	0.01

D.D.H. # 18

START OF HOLE

192'

192' - 735½'

pale grey w/ ~ 10-15% spots + dark veinlets (metabiotite?) porcelan. altar rock sugary, very fine grained to aphanitic texture (highly silic.) hard minor hairling to 1/16" w/ pyr. chalco. minor scheel. veinlets - minor moly veinlets - veinlets have narrow bleached halo

same w/ fine grained flesh-pink to buff K-feld. throughout in veinlets
to 216' - maybe 2-3% of rock has been feldsbathized.
- 192' - spec. - typical of silicified? (& not feldsbathized rock)
223 - 256 - bands of strong K-feldsbathizat.
- 232' - typ. spec. (no change in grade ore).
- core is magnetic (1-2%?)
- minor moly.
241' - qtz. sericite veinlet - minor moly ? kaolinization calcite & ser.
246'-250' - hornfelsed trap dyke - fine dark brown biotite some magnetite
250-271 - patches of dark brown biotitic material - trap dykes?

same light-grey dense silicified rock w/ ~10-15% small dark brown biotite veinlets & patches.
~3 veinlets/ft. hairline only minor moly. but also the mafic veinlets

279'-289' - darker or more biotite rich zone w/ K-feldsbathization that seems richer in moly.

veins mostly // core.
284' - typical - shows what seems to be early chalco. veinlet cut by moly veinlet but relicts of chalco in moly veinlet. suggest replacement, also numerous mag. veinlets in this section.

290'-299' - light grey porcelan. highly silicified rock?
- moly veinlets, fine grained sugary, banded w/ moly in streaks near walls of vein.

299'-309' - Kfeld sbathized section - more bio., minor epidote, no obulous incr. in grade.
Kfeld. - very fine grain seems to be dissem. throughout rock
some areas are blotchy pink, green, brown & light grey
↓ 2% Kfeld?

309-338 - strip, blotchy, medium & light grey, heavily silicified? some relic frags?
271-279 highly alt. trap dykes? - area rich in biot. & Kfeld. - only minor moly.

338' - 435½' pale white grey, dense good parcel. alt. rock, few areas of darker biotite
362-366 - broken core
377-378 hornfels trap dyke, some mafic phenos, only minor moly, & veinlets in this section of core.

383'-389' - broken core w/ rusty fracture surfaces - fracture zone to surface - surface xtls.
↓ 407' - ~7 veinlets / ft mainly hairline - moderate mholy. mineralization fine & coarse grained, still a few rusty fractures

435½'
contact w/ lapilli tuff - contact is reasonably sharp.

435½' - 517'
start of quartz-eye unit
435½ - 444' - medium brown grey fold. rich lap. tuff.
~15% feld.
~ 10-15% - fine qtz-eyes.
~ 5% lap. frags.
at 444' - qtz-eye unit becomes lt. grey - can see a few relic rounded lapilli frags.
~10% alt. feld. 2 15% med. grained qtz-eyes. white fine grained aphinitic sugary matrix.

minor moly.
471 - reasonably typ.
(low dark frags are not common)
477 ± unit starts to incr. in qtz-eyes ~25-30%
pale white siliceous matrix.
feld. - very highly alt.
(rock may be highly silicified

517' - contact reasonably sharp - same porcelan. white gray alt. rocks, ~~abundant~~ - Some mag. veinlets to ¼" in width. throughout section, minor moly veinlets usually coarse grained

517'-584'
561' - 2 spec.
- one for SiO_2 determination
- other shows mag. veinlet.

584' - 743' qtz. eye lap. tuff
same as porcelaneous rock only ~ 15% qtz eyes

no frags. visible
slight improvement in moly.
- 599' - spec. steel grey unknown metallic min. - not magnetic - reddish streak, reasonably hard, poss. specularite w/ chalco. ? few areas can see some feld. but usually completely altered.
636'-637' - darker section w/ some excellent lap frags. - a few feld. xtls visible generally slightly less silicification in this area since can see some feld - only minor moly.
- only very minute amts scheelite.

- feld. may be kaolinized (spec. 651' typical)

705' - still ~ 20-25% qtz-eyes - looks like silicified matrix - ~15% relic feld.

Xtls visible
only minor moly
715' - 1" qtz, mag, q vein
w/ no sulfides.
~ 1/2 % pyr in core
& trace chalco.

743' - 772' - hornfelsed biotitic trap dyke
contains qtz., hornblend
veinlets ± sulfides
improvement in moly.
also increased pyr.
- only trace scheelite in core
- 769' - typ. - shows moly, qtz, hornbl. veinlets
some pale green alt. halos around veinlets - up to 6" wide

772' - 845

772' - 785' - pale grey pale grey, & blotchy porcelanous, salt. rock.
785' - 789' - looks like fine grained granodiorite

some granitized inclusions then medium & pale grey highly silicified, alt. volk. rock (dense) similar to start of hole & material in bottom of 28.

792' - 1" magnet. vein, 1/4" qtz. borders cut by pyr stringer.

815' - start of mixed blotchy med. grey & light grey alt. dense volc. rock - could be bedded at intermediate ∠ to core

822' - rock becomes pale wh. grey, could be feldspathized as well as silicfied.

845' - 1/2" qtz., buff fld, pyr, moly veinlet.
improved moly for ~ 7-8' (both ways).
- rock grades to pale green aplitic material
- appears to be rich in

sugary qtz.

861' – rock is composed of fine grained qtz & felds. – slightly more feld (? origin)

845' – 1002½'

845–878' – pale green aplite, situated above granodiorite contact is blotchy & texture, color, compos, changes over to 910'

885.5–888' – pale white aplitic material

– after 910 feet still altered clots, biotitized, epidotized & K feldspathized

only a trace of moly.

933' – spec. typical

– cut by [illegible]

– only minor moly

– it has been [illegible]

& not [illegible]

949' – ~4 veinlets/ft. hairline to ¼" mostly ~ // core. moderate moly.

949–990' – mixed granitic & bleached granodior.

990–1002½' – pale green aplite.

993' – spec. of aplite w/ moly. smears.

1002½' –

bleached & alt. granod? most of matrix reconstituted or else leached out.

– slight improvement in grade

– many mag. veinlets – one contains moly

– some sections of core up to 1% scheel.

spec. 1019' – banded moly, qtz, mag. veinlet, moly & mag. in separate bands.

around 1035' – would never recognize granodior. just mottled lt & med grey rock – a few specks of fine grained biotite

1080' - start of better granitic texture, especially to 1074' but after that get alternating bleached & normal recryst. material
~ 35% to 45% qtz, mostly in matrix.
- test felds.
- some K feld.
- probably recrystallized only appears to be minor moly
- increasing bleached sections to 1229'
- from 1164' to 1230 - not recog. as granodiat.
- mafics destroyed
- bleached, altered, felds, some qtz pale buff grey rock, moderate moly
- some sugary qtz moly mag veinlets, over 3" wide, ⊥ core
- other veinlets mostly ∥ core.
- Spec. 1207½' typical of bleached?? granodiorite

*Bob Blair doesn't think it is altered - he thinks is just aplitic phase of granod.
√ - on looking @ spec. - looks like - aplite dyke in Toboggan Creek Area

- Summary of Day's Logging
1. Banded fine grained moly, qtz. & magnetite qtz. veinlets (sugary qtz & mm.) seem to be early (? pyz.)
2. Coarse qtz. (& other gangue [illegible]) & pyz. - mm. coarse moly, [illegible] pyz. veinlets are later (#28 - 2082')
   - size moly. grains is proportional to size of assoc. minerals
3. Granite in bottom #28 is different from any rk. I have seen on surf.
4. Porcelaneous rk. in Qtz. Eye Unit (#18) could be silic. dense tuffs
5. Qtz. Eye unit in #18 is highly alt. - matrix recryst. - feld. destroyed
6. Granod., its alt. portions & aplite relations are very perplexing (subtle changes)
7. ? [illegible] in bottom D.D.H. #28 could belong to lower Volc. sequence.

1080' - start of better granitic texture, especially to 1074' but after that get alternating bleached & normal recryst. matrix ~ 35% to 75% qtz, mostly in matrix. test fe ds.
- some K-feld.
- probably recrystallized, only appears to be minor moly
- increasing bleached sections to 1209'
- from 1164' to 1230' - not recog. as grandiorite
- mafics destroyed
- bleached, altered, felds, some qtz
pale buff grey rock, moderate moly
- some sugary qtz mdy mag veinlets, over 3" wide, ⊥ core
- other veinlets mostly ∥ core.
- Spec. 120 ± 2' typical of bleached?? granodiorite

*Bob Blair doesn't think it is altered - he thinks is just aplitic phase of granod. - on looking @ spec. - looks like aplite dyke in Toboggan Creek Area

- Summary of this section

1. Banded fine grained mafic-qtz. & mafic-felsic (i.e. hornfels (sugary qtz veins) seem to be early (pyx).
2. Coarse qtz. (+ other gangue min.) + pyx. - minor coarse moly, sometimes pyx. veinlets are often (at 26 - 2042')
- size moly. grains is proportional to size of assoc. minerals
3. Granite in bottom #28 is different from any pk. I have seen in such
4. Porcelaneous pk. in qtz. Eye unit (#18) could be silic. dense tuffs
5. Qtz-Eye unit in #18 is highly alt. - matrix recryst. - feld. destroyed
6. Granod., its aplitic phase & aplite dykes are very perplexing (subtle changes)
7. Need to get bottom DDH #28 could belong to lower volc. sequence.