

July 29/68
Mamit Lake
801179
CONSULTING GEOLOGICAL ENGINEER
WILLIAM M. SHARP, P. ENG.

37E .37E 908 908 WEST HASTINGS ST.
VANCOUVER 1 B.C.

orig. + 3 copies
to G. Saaree

Letter to District Attorney
Law Courts Bldg.
Victoria B.C. & Seal & sign

m.l.m. - } these claims are not geologically distinct
85-96 incl } constitute key claims from pt. of view of
South end. } this report. (viz. writer's recommendation for mattering &
western claims only)

G.S. U.S. 1' x 1 1/2'
7 + 1 prints @ 12¢ ea

Also send \$100 non charge quantity
revised claims map Fig. 2. to G. Saaree.
& Seal & initial these.

Advise G. Saaree

after addition of 4 claims per his July 29 advise
that

Fig 2 - totals	165 claims	} G. Saaree please check & advise.
Sched P. 445	162 "	
P. 4 - # 2 - notes properly comprises	168 claims	

* Owing to frequent duplication of claim names,
(who is trying to confuse who?)
a (new) map - ^{2. weight} sub'd by a P. Eng. with name to take meaning Ltd.
G.W. with names & record no's should be furnished prior to
the writer undertaking any further work on claims
concerning the June report or other communications.

well

WILLIAM M. SHARP, P. ENG.
CONSULTING GEOLOGICAL ENGINEER

Copy W.M.S. file

ROOM 1, 425 HOWE STREET
VANCOUVER 1, B.C.

JULY 30, 1968

MR. G. L. SAARSE,
PRESIDENT,
MAMIT LAKE MINING LTD. (N.P.L.),

DEAR MR. SAARSE:

RE. G.C.M. - M.L.M. CLAIMS, MAMIT LAKE MINING
LTD. (N.P.L.)

REPORT FIG. 2 AND THE CLAIM SCHEDULE ON PAGES 4 AND 5 OF THE WRITER'S JUNE, 1968 REPORT REPRESENT THE WRITER'S INTERPRETATION ONLY OF THE ASSORTED MAPS AND RECORDS MADE AVAILABLE TO HIM FOR A FORMAL COMPILATION. DUE TO THE FREQUENT DUPLICATION OF CLAIM NAMES WITHIN THE COMPANY'S GENERAL GROUP, I WOULD NOT CARE TO UNDERTAKE FURTHER WORK, OR HOPE TO GUARANTEE ACCURACY ON THIS, UNTIL SUCH A TIME AS I WOULD BE PROVIDED WITH A SIGNED CLAIM SCHEDULE AND MAP.

THE CLAIM SCHEDULE SHOULD CONTAIN ALL OF THE INFORMATION SHOWN ON PAGES 4 AND 5 OF THE REPORT, PLUS 'CURRENT EXPIRY DATES'; THE CLAIM MAP SHOULD SHOW ALL OF THE INFORMATION ON FIG. 2 - PLUS RECORD NOS OF EACH CLAIM IN CONJUNCTION WITH EACH CLAIM IN ITS RELATIVE SPATIAL POSITION. IN ADDITION, THE PERIMETER OF THE GROUP SHOULD BE FREQUENTLY REFERENCED TO RECOGNIZABLE (OFFICIAL MAPS) TOPOGRAPHIC POINTS OR FEATURES.

YOURS VERY TRULY,

W.M. Sharp, P. Eng.

July 30, 1968

British Columbia Securities Commission
Law Courts Building
Victoria, B. C.

Dear Sirs:

RE: "Summary Report on a Geological Investigation
of the M.L.M. - S.C.M. Claim Groups, June, 1968
for Mamit Lake Mining Ltd. (N.P.L.)," by
W.M. Sharp, P. Eng.

In regard to their relative geological and/or economic potential with respect to the gross property described in the above report, the writer advises that the southerly situated mineral claims M.L.M. #85 - #96, inclusive, do not comprise key claims; it is further noted that the writer's recommendations for exploration pertain to the northerly and westerly claims of the Company's Mamit Lake property.

Respectfully submitted,

W.M. Sharp

W.M. Sharp, P. Eng.

W.M.S.

June 26, 1968

The President & Directors
Mamit Lake Mining Ltd. (N.P.L.)
Apt. 7 - 1245 Bute Street
Vancouver 5, B.C.

Attention: Mr. George J. Saarse, President

Dear Sirs:

In reply to your request of this date, I am forwarding the accompanying letter giving my formal consent to your use of the "Summary, Recommendations, Estimated Costs" section of my June, 1968 "Summary Report on a Geological Investigation of the M.L.M.-G.C.M. Claim Groups, Mamit Lake Mining Ltd. (N.P.L.)", and/or to your use of the full, unabridged report for purposes of providing public information on this mining project.

The writer repeats his June 4, 1968 request that possible extracts, quotations, or independent summaries of the above material be submitted to him for his review prior to releasing them as public information -- in general accordance with the requirements of the B.C. Securities Commission.

Respectfully submitted,

W.M.Sharp, P.Eng.

WMS:sm
enc.

WMS

June 26, 1968

British Columbia Securities Commission
Law Courts Building,
Victoria, B.C.

Dear Sirs:

Re: Mamit Lake Mining Ltd. (N.P.L.)

This will indicate my formal consent to the use of my full June 4, 1968 "Summary Report on a Geological Investigation of the M.L.M.-G.C.M. Claim Groups, Mamit Lake Mining Ltd. (N.P.L.)" and/or of the "Summary, Recommendations, Estimated Costs" section of this report by the above company for the purposes of providing public information concerning the above mining prospect situated near Mamit Lake, B.C. in the Nicola and Kamloops Mining Division.

Respectfully submitted

W.M. Sharp

W.M. Sharp, P. Eng.

WMS:sm

Note: Re Aerial, detailed topog. Mamm. L.

Can. Dept. Mines & Tech. Surveys; { 92I/7E (Queenville Co. J.W.)

Advance Print only

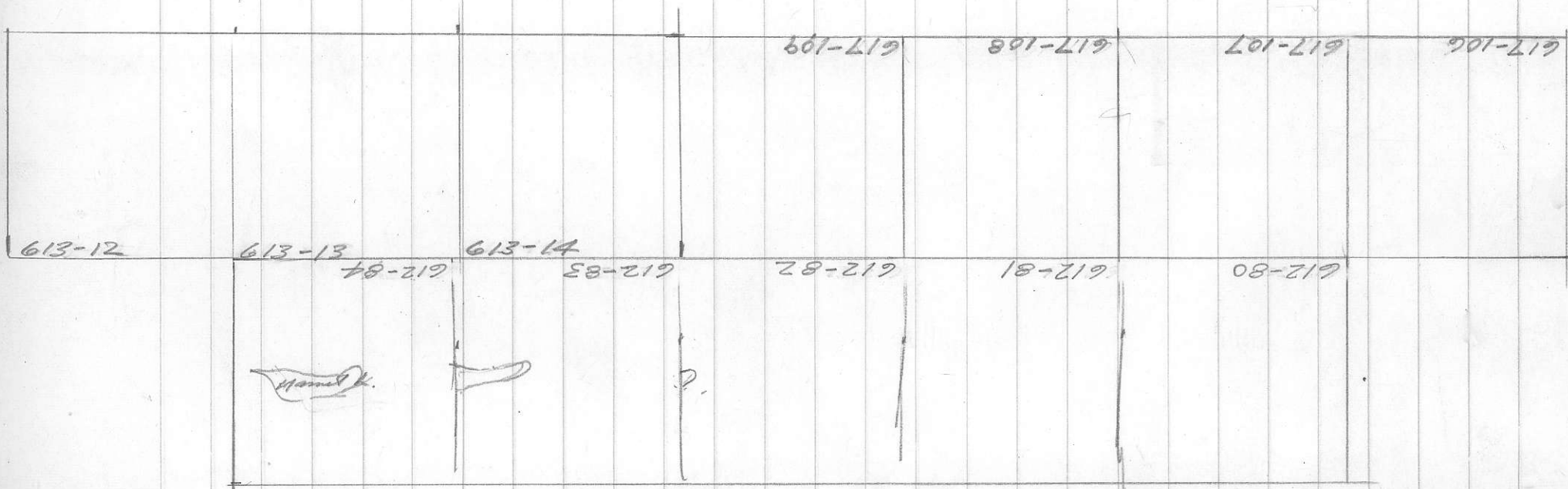
avail @ Dec 31/66

{ 92I/7W. M. L. M., Conner, etc.

C 1 : 50,000

= 1.267" = 1 mi

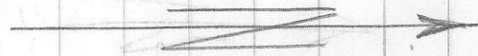
1" = 0.8 mi = 4200'

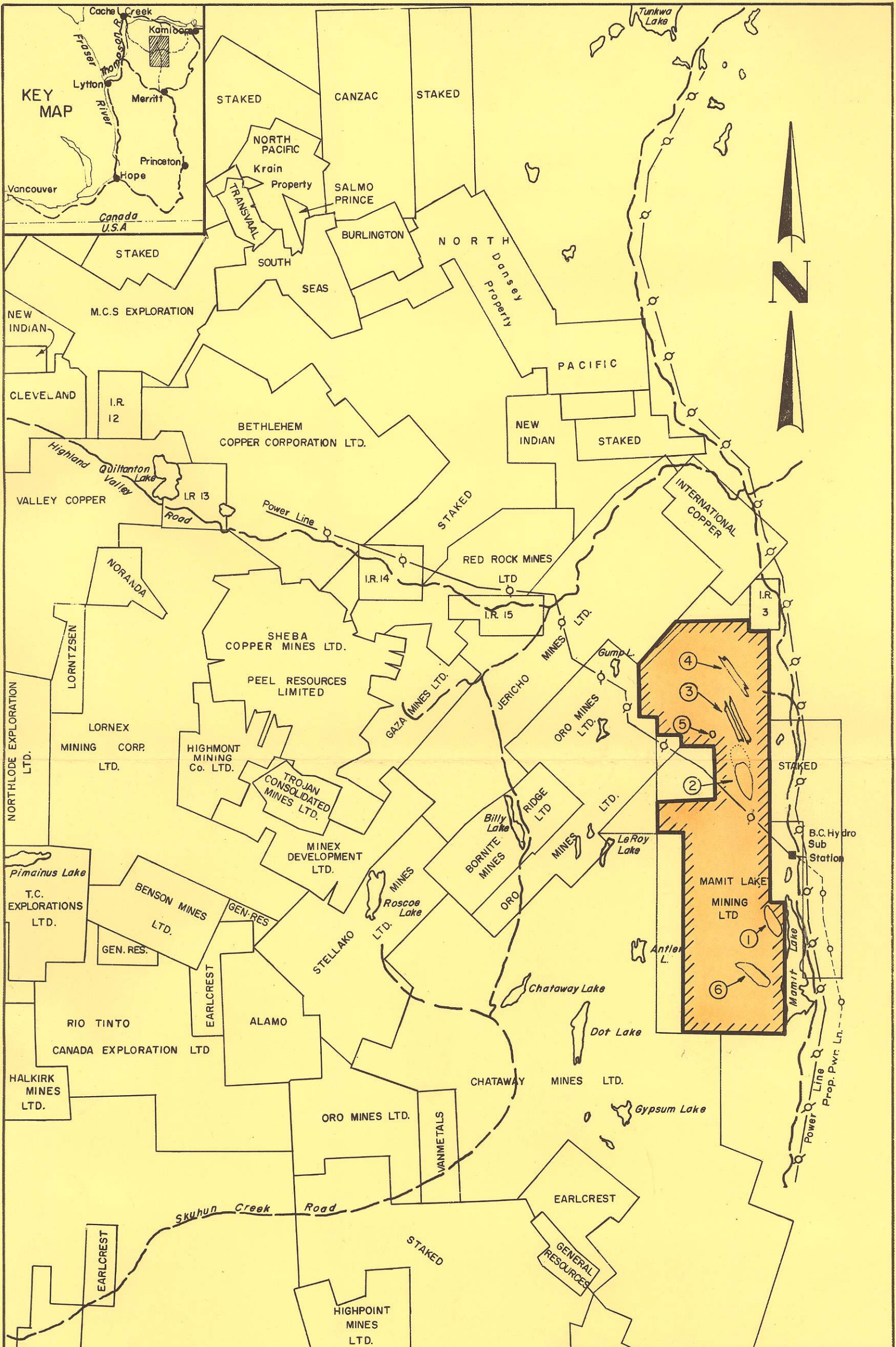


Spread air photo coverage

Mamm. Lake Mamm. 2640'

1" = 1/2 mi (40 chain) air photos.



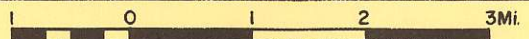


LEGEND

- ① QUENVILLE ZONE
- ② DAVIS ZONE
- ③ N 25W ZONE
- ④ BROLIN ZONE
- ⑤ CANYON ANOMALY
- ⑥ A-1 ANOMALY

MAMIT LAKE MINING LTD. (N.P.L.)

LOCATION MAP
WITH I.P. ANOMALIES
TO SEPT, 1966
HIGHLAND VALLEY AREA



SCALE

DATE: JANUARY, 1967

BY:

Mammoth Lake Mining Mtd. (N.P.L.)

(arrange in order)
Rec. No's

Claims
(See typed report - revised July 29-30/68 for address & revisions)

Mineral Claims	Record No. (s)	Record Date	Min. Div.	Date last certified work
M.L.M # 1-9 incl.	36075-36083 incl	15 Jan. 1968	Nicola	10-14 18 Sep 67
M.L.M # 10-30 "	21452-21472 "	23 Sept 1963	"	15-30 19 Sep 67.
M.L.M # 33	21475	23 Sept. 1963	"	19 Sep 67.
M.L.M # 35	21477	23 Sept. 1963	"	19 Sep. 67.
M.L.M # 45-50 incl	21800-21805 incl	28 Jan 1964.	"	29 Jan 68.
M.L.M # 51	36539-	14 March 1968	"	✓
M.L.M # 52	36540.	14 March 1968	"	✓
M.L.M # 55	36543	14 March 1968	"	✓
M.L.M # 56	36544.	14 March 1968	"	✓
M.L.M # 67-69 incl	36551-36553 incl.	14 March 1968	"	✓
M.L.M # 82-84 incl	36554-36556 incl	14 March 1968	"	✓
M.L.M # 90	36557	14 March 1968	"	✓
M.L.M # 97	36558	14 March 1968	"	✓
M.L.M # 98	36559	14 March 1968	"	✓
M.L.M # 100-102 incl	36560-36562 incl	14 March 1968	"	✓
M.L.M # 146-149	36572-36575 incl.	14 March. 1968	"	✓
M.L.M No. 59-66 incl	21813-21820 incl.	7 Feb. 1964	"	7 Feb 68
M.L.M No. 70-81 incl	23274-23285 incl	14 Jan. 1965	"	15 Jan 68.
M.L.M. 85-96 incl	24801-24812 incl	12 July 1965	"	12 July 67
M.L.M # 12-15	36533-36536 incl.	14 March. 1968	"	✓ URG. 12-15,
M.L.M # 28-	36537-	" " "	"	✓ " " 28
M.L.M # 30	36538-	" " "	"	✓ " " 30
M.L.M # 53-54	36541-42	" " "	"	✓ " " 53-54.
M.L.M # 57-62 incl	36545-50.	" " "	"	✓ " " 57-62.
M.L.M # 118-119	36563-64.	" " "	"	✓ " " 118-119.
M.L.M # 131-135	36565-69.	" " "	"	✓ " " 131-135
M.L.M # 137-	36570-	" " "	"	✓ " " 137-
M.L.M # 139-	36571-	" " "	"	✓ " " 139

Cont'd Mineral like Mining Claims.

Mineral Claim	Record No(s).	Record Date	Min. Div.	Date Last Certif. of work
✓ M.L.M. #136-	68484	14 March 1968	Nicola	23 Feb. 1968
✓ " #138	68485	" " "	"	" " "138
✓ " #140	68486	" " "	"	" " "140
} Hampton M.D.				
✓ G.C.M. No. 8 - 11 incl.	21832-35 incl.	24 Feb. 1964	"	23 Feb. 1968
G.C.M. No. 24,	21848	" " "	"	23 Feb. 1968
G.C.M. No. 26	21850	" " "	"	23 Feb. 1968
G.C.M. No. 47	21871	27 Feb. 1964	"	
G.C.M. No. 48 - 52 incl.	21872-76 incl.	" " "	"	
G.C.M. No. 55-56	21889-90	2 March 1964	"	23 Feb. 1968
Sold to M.L.M.L.D. Purchased Claims per Bills of Sale Frank Wess & Mary Overton 12 Apr 68				
✓ Shado # 5 & 6	20628-29	16-5-67	"	25-4-67
Lee #6	20574	3-5-67	"	" " "
Ed #1-#5 incl per Certif. of work.	29666-70 incl.	25-4-67	"	" " "
✓ G.C.M. 101-116 incl	23368-83 incl	25-Feb. 1965	"	23 Feb. 1968
✓ G.C.M. 117-2	23384-	25 Feb. 1965	"	23 Feb. 1968
G.C.M. 125-	23392	1 March 1965	"	" " "
G.C.M. 127-130 incl	23394-97 incl	1 March 1965	"	" " "
G.C.M. 141	23465	3 March 1965	"	" " "
✓ G.C.M. 120-124 incl	23387-91	1 March 1965	"	1 March 1968
✓ G.C.M. 125	23392	1 March 1965	"	23 Feb. 1968
✓ G.C.M. 126	23393	1 March 1965	"	1 March 1968
✓ " 127-130 incl	23394-97 incl	1 March 1965	"	23 Feb. 1968
✓ " 141	23465	3 March 1965	"	" " "

May 6/68

Mammit L. Manning Co.

had Wright a V.P. & Bud Hodgen out on this -

100 cl's on E margin around Bethlehem
S $\frac{1}{2}$ of the group in lower aplite.
N $\frac{1}{2}$ " " in 93 di etc.
93 mag, etc.

Summit T. Carnon

aplite (op) of T.C. continues ~~up~~ into
Mammit L. - Bay dome - radial fracture pattern
pattern w. N.E. fractures

py gen. dissem. on fract. planes at foot
of pye N.W. part showing - 70% sericitic alb.,
N.W. parts orig from edge of Bethlehem
- notes include: -

- I.P. & german worked out very well on strata.

- \downarrow 18 ms. on lower - I.P. ridge @ base of ddb
between

2 days - - -	200.00	} --- 550 ⁰⁰ mag.
5 days - 60 ⁰⁰	300.00	
travel - - -	50.00	

All unproven. anomalies @ E. periphery of
dome -

- Emphasizes occurrence of aplite on Tom's
property and his (up to 2000' wide) but W.S.
notes does not clarify the Cal. Ang intrusion
as aplite, but rather as f.g. Sheena (or Bethlehem)

Mammoth Lake Mining

per J. White phone data May 24 eve.

①

M.L.M. - Core all in one place; on road going
in from All core from #1 anomaly

Hole No 1 - 274'

Intervals @ 1' - 2' wide sp. py/cp.

Hole No 2 - 298'

101-104' 93 - py/cp.

113-118 - Some chrom & some on fracts
← 102

Hole No 3 - 330' - No core @ 89' all taken from sample.

89-94 1/2 lightly chrom cp.

Hole 4 - 293'

36

Light chrom cp. 78' - 114'

Holes @ about M.L.M. 9 & 10 Final parts

C.R. dark, abundant lots of
ferromag minerals.

Some of new trenches south of road
near road. Trenches above.

May 25/68 - ①

G.S. deBullinger & A. Aronson - 1964

Utah I.P. Geochron. & Map in 1965

Soil samples

Trenching adjacent (dth. & NE) of drill collars.

trench 67-1 long E-W to E dip to drape - gr. cont.

67-2, on Utah I.P. high & Karst-py zone in gr

N15W

67-3 trench to north

trench 24, 1, 2, & 3.

Note percussion hole into below to 67-2, also 84' dth - 20" diameter
660' long trench adjacent on edge of Utah 10 mi shoulder. Note Utah dip. on 300' dth
so interpret difficult.

→ Tr 67-4 did not get B.R.

Tr 67-5 pink (green) and py granite - 2 polished pieces
K-P ^{1/2} but no thin sects.

May 25 - (2)

Line C just north of rd fork, E 3400 at rd crossing
Note Utah had strong problem up C-line - (poss. local discrepancy.)

May 26 - Claim post check. - 100' W. of access road

1 Post 1444 # 9; 826409

located Andrew Horne, Jan 11/68

2 Post 1500'S. Cl. to L. 1500

826407 } Final posts # 7 + 2 A.C.M. 1500' L

8 } by Andrew Horne - Jan 11/68 1500 R

May 26 - inspected town G.C.M. area (see air photo
to W. of G. Sarcophagus.

N4 Top - cgr granitic rock, sp access hole (pos 92-mog)
shows repr & hard spec & thin red spots

G S note E-W. sericitized ^{80' wide striated} zone
Westerly up W side canyon 9 claims high 1.2. low
from 1467 survey, sp G.C.M. - 1

S-top Semi 92-mog cgr w. bi-hld access notable
chain of hlds. w. dimon cp w. chlon
patches.

Note altered 92-mog; green talc-sericite after
of 92-mog. - adj. to cp occur

Dr Sinclair - Petrogr. exams
(V.B.C.)

megacrystic zones of specimens.W. M. Sharp samples:5-3. South Diorite zone.

Med. to c.gr. diorite or, syenodiorite, dark grey; even-granular. hypidiomorphic; apprec'l accessory magnetite, minor augite, sparse hornbl. py/cp.

G.C.M. Ridge - see adj. Sinclair petrographic report.

Fresh Intrusive, megacrystic

(a) Rather c.gr. granodiorite ^(A.D.A.) Qz. Diorite, about $\frac{1}{3}$ blobby to interstitial quartz; + 5% biotite, some weakly chloritized; feldspars orange-pink and pale green (pink-green mottled aspect). Some parts truly granitic ($> \frac{2}{3}$ orthoclase).
 (b) cloudy-green feld. part from talc - kaolin - sericite act'n.

(b) Mineralized granodiorite

granular cp. remaining biotite + remaining + replacing hbd.; all mafics shredded-chloritized. Trace moly. moderate argillitic odors. Cloudy to buff + granular felds indicate kaolin - sericite act'n. hbd/bi about equal - preferred.

(c) pink-green mottled, qz. m. or granodiorite, all mafics thoroughly chlor.; felds all cloudy pink-orange strong argillitic odors; with several grains sericite.

act'n = chlor, K-feld. - kaolin - sericite, apprec'l cp. dispersed on chlor mafics. Not only about 10% qz.

②. Intensely altered granodiorite or gneiss. ②
mottled gray-green; strong argillitic colour
→ sericite-Kaolin (talc) actin (green is
not epidote shade); trace dissemin cp.

C. Scarce specimens.

* 1. Mt. M A-2 zone; to # 5. pink green mottled
med-gr ^{H.T.C.} granite or gneiss. (± 20% qz), 5% bi.
seam w. garnis cp. from A-2 to # 5.

* 2 like # 1, = granitic (H.T.C.)

* 4 leucogranite (H.T.C.)
moderately sericitized var. of # 1 or # 3, fair
cp. aggregates replacing chlor { hbls. clots & shreds.
biotites

* 3, A-2, tr. 2, gen sim to 1 or 2 K-feld, white plag. Granite (H.T.C.)
Note assoc. pink-greenish tinted aplite dykes.

B well mineral # 1 + # 3, moderately sericite
cloudy felds + minor Kaolin actin; locally;
fair cp. rims & replace chlor, hbls. A-2, to # 3.

A. A-2, to 3. like B. but stronger actin. no
mineral.

* 5, mottled, leucocratic ^(H.T.C.) albite (?) granite or gneiss, actin of # 3 from
A-2, to # 2, fair argillitic colour, chlor,
fragmented biotites. apper'd f. qz cp.
repl. chlor mafics, to moly in felsic aggr.

* 6 A-2 to # 3, med-gr pink granite or gneiss.
^{H.T.C.}
granitic, mild chlor-Kaolin actin.
Chloritization of mafics most distinctive feature.

fair cp. remaining & repl. chlor. biotite (minor hbls.)

* F, altered # 1 - # 3, w. good cp. replace of
chlor hbl along fault seam.

#8 m. gr. diorite (from A-1 zone?) (w 25% access. augite) to pyroxenite

grading to pyrox-rich margin; considerable
cp. dispersed & repl. aug-mt. aggregates.
location? Note some gabbro in this zone.

all part. of metasomatically altered zone of v. l. (migmatite zone)

+9 core sample dark grey. aug. - diorite. (no qz.)

m. gr. aplites (diabase) w. plagioclase in
cherty augites; minor clinom p. g/cp.
location? prob from A-1 East zone.

#10 line C, 400 W. med-grained white granite porphy
or alaskite w. very minor mafics → white

alaskite

#10, line C, 400 W. Pale grey ^{H.T.C.} qz-feld porphy or leucocratic ^(alaskite) gran. porphy.
= 25% qz. access. pl. d., + fresh.

#11 Pink microgranite, reddish feld, white plagi
green tinted felds prob from dispersed epidote.

#12. A-2, Fr. #3. ^{H.T.C.} Granite to qz monzonite ^(w.s.)
moderately recrystallized, +
chloritized (mafic) ^{minor cp on seams.} var. of #1. granitic (cp.) plagioclase.

#13, A-2, Fr. #2. altered var. of #1 + #3; recrystallized
K-feld (or orth) qz remaining as distinct pl. d. (25%?)
^{oriented qz. relict.} Walt. purph. leucogranite, ^{H.T.C.}

#14 F. g. to aplites (dyke) phase of #1 + #3.

(4)

Trench A-1, line F.

dark dioritic some ep mt/cp repl.

Southerly Extensions of Canino Trenching

All rather f. gr. white to ashite w minor
chlor hbd as accessory or absent;

(* similar to spec. #10, line C, 400W)

loc some f. gr. ep replacing or assoc.
w. glossy mafic or dispersed in felsic
matrix.

* some chalky white specimens → strong
kaolin-lensaricite at the

"Trench; R, 300 N. of S. End of Mamit L."

Gen melanocratic to black meta dioritic
w. apper'l diagen mt. Some ep in ~~some~~
B. 93 veins.

"South End Mamit L."

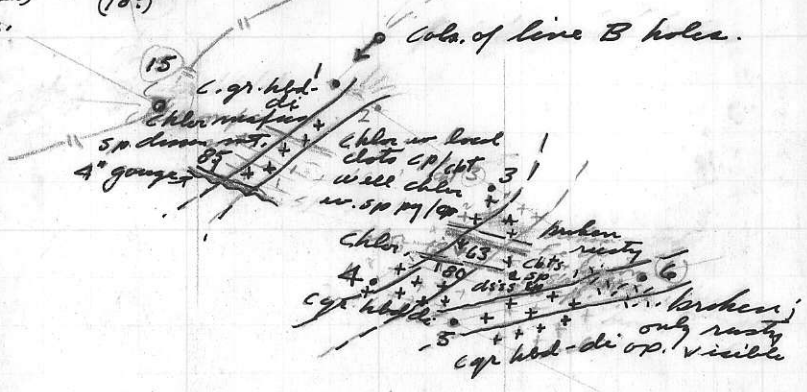
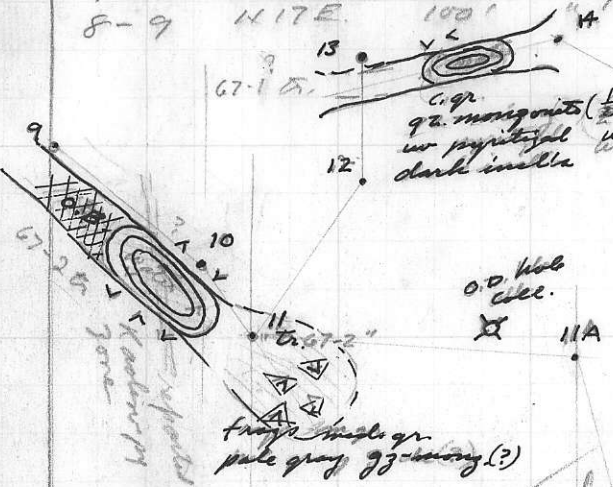
Banded feldspar-pyroxene
migmatites.

Also some felsic dyke mat'l. -
probably intruding migmatites.

- 6-7 S. 70E; 180'
- 7-8 N 35E 200' along to access rd.
- 8-9 N 17E 100'

(15) coll. d. drive (84' @ -90°
hole between 2 trees
on S 145 I.P. ridge
(183)

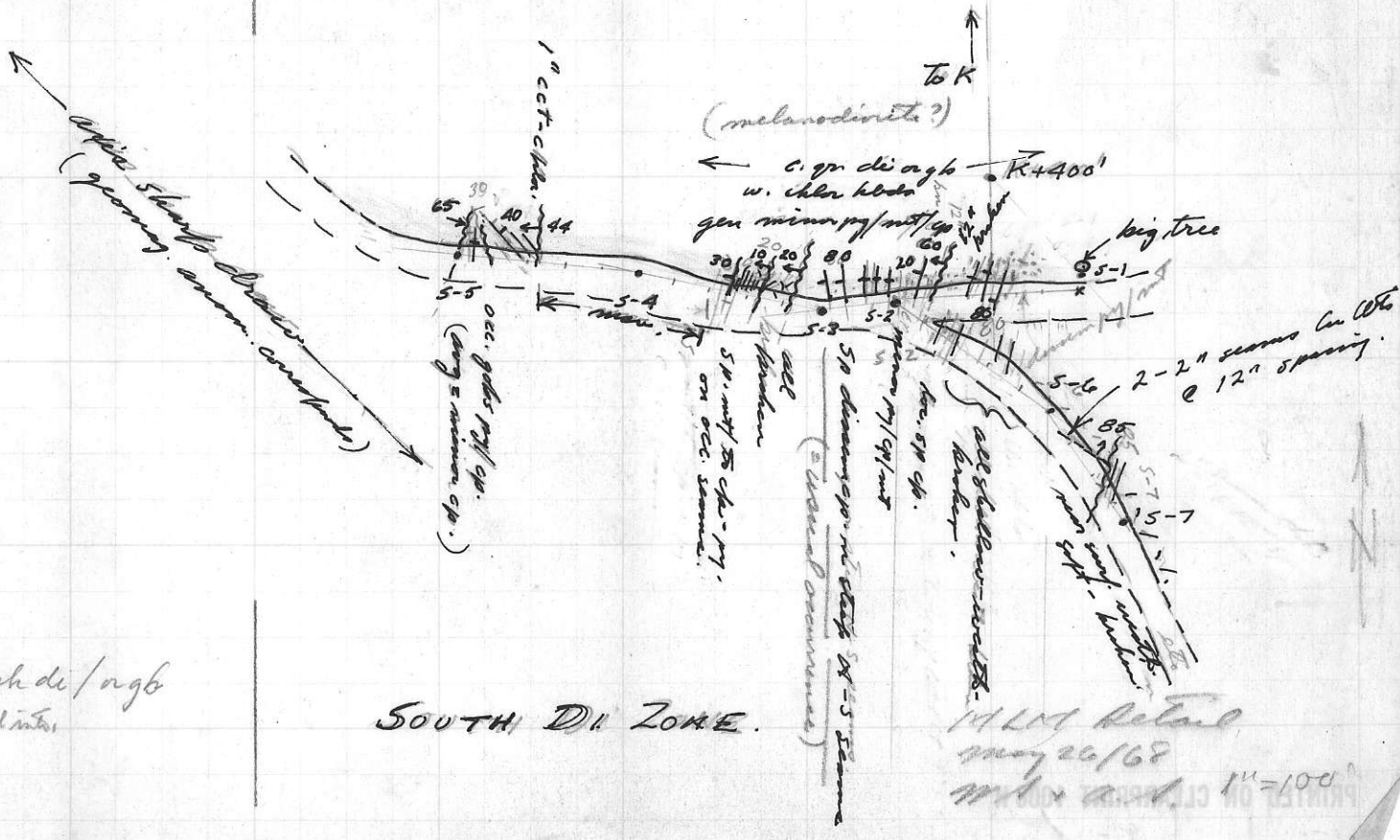
get loc of other
hole of Utah plan



ground = $\frac{1}{3}$ - $\frac{2}{3}$ K fields.



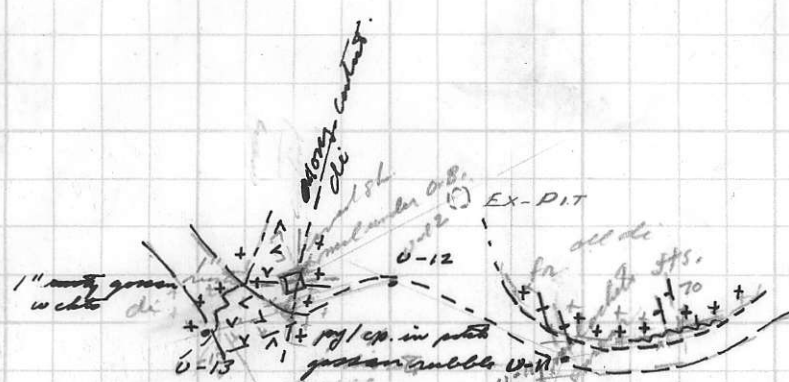
A-2 (Geomag.) Zone.



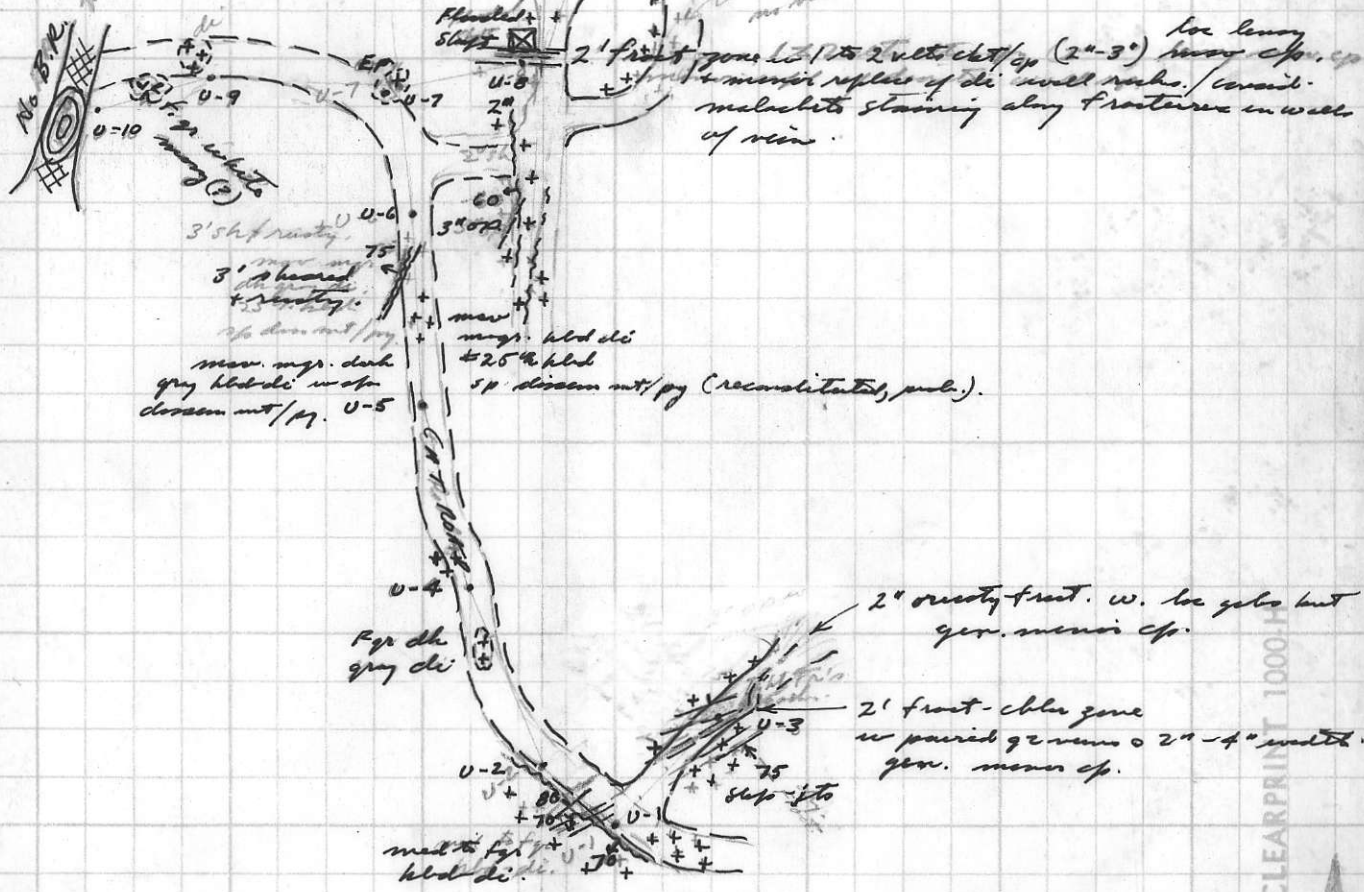
- + di
- dark di/orgb
- ∇ acid int.

SOUTH DI. ZONE.

plotted



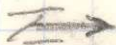
LINE F
PER N.W. EX 1000-SCALE DATA



Tran 1915 pit area
 A-1 - West zone
 (per geology anomaly)

M.L.M. DETAIL
 MAY 26/68
 W.S.A.K.; 1" = 100'

PRINTED ON CLEARPRINT 1000-H



upper limb of Beany seam
under more shafts

upper shaft area
A-1

West limb A-2 seam
E limb A-2 seam

300' NW of shaft

120' SW

20' SW

90' SW

90' SW

Summit side

Main road bench ref.
Kerrin may low

direct of
level with
A-1

by anyone
found

A-1

A-2

+ de
map of
11/11/68
XX "V" by g-d
B.C. 13-13

PRINTED ON REAPRINT 1000-H

A-2 (also d'd
Beany seam
A-2
Main road
Summit side

100'

20'

90'

90'

Summit side

Main road bench ref.
Kerrin may low

M.L.M. recon
May 25/68.
W. G. Searns
also

