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REPORT  
CURRENT GEOLOGICAL EXAMINATION  
YUBET PROPERTY  
ROSCOE LAKE AREA,  
SOUTH HIGHLAND VALLEY, B.C.

*M.A. Hilde  
copy*

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R E P O R T

Following

CURRENT GEOLOGICAL EXAMINATION

of the

YUBET PROPERTY

ROSCOE LAKE AREA, SOUTH HIGHLAND VALLEY, B.C.

KAMLOOPS MINING DIVISION

during

JULY 1965

WILLIAM M. SHARP

M.A.Sc., P.ENG.

CONSULTING GEOLOGIST

EXAMINATIONS  
EXPLORATION  
ENGINEERING

161 PEMBERTON AVENUE,

NORTH VANCOUVER, B.C.

August 4, 1965.

Mr. J.R. Trepanier, President,  
Stellako Mining Company Ltd., N.P.L.,  
716 - 602 W. Hastings Street,  
Vancouver 2, B.C.

Dear Mr. Trepanier:

This report summarizes my July 30 - 31, 1965 examination of exploratory work accomplished on the Yubet group since July 11, 1965, and contains additional recommendations for further exploratory work.

Drawings No. 2A, "TRENCH LAYOUTS & GENERAL GEOLOGY", 1" = 100' and No. 3-A, "PRELIMINARY TRENCHING AND STRIPPING", 1" = 50' accompany this report. Three complete report map sets are herewith forwarded for your personal reference and distribution.

Respectfully submitted,



W.M. Sharp, P. Eng.

WMS/ec

encl.

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MAPS IN POCKET:

Drawing 2-A - Trench Layouts & General Geology, Yubet Property; 1" = 100'.

Drawing 3-A - Preliminary Trenching and Stripping with General Geology and Mineralization, Yubet Property; 1" = 50'.



FIG. 1

YUBET COPPER PROSPECT  
 ROSCOE LAKE; KANLOOPS M.D.  
 REF. G.S.C. MAPS 886A, 1010A  
 SCALE: 1 IN = 4 MI. DWN. AUG. 1965  
 W.M.S.



SUMMARY

Stripping and trenching have confirmed the preliminary indication of a N15° - 20° E strike and near-vertical dip of the more extensively exposed section of the general zone of mineralization <sup>currently</sup> under current exploration. Variations in trend, reflecting local changes of the width and trend of the intrusive "aplite" dyke, may be expected as exploration is extended generally northward, southward, and laterally from the current center of interest.

At present, mineralization appears best developed within fractured, silicified, and otherwise altered aplites adjacent to the local westerly aplite-granite contact. At the main strip - cut, surface work has exposed 50' - 80' wide sections containing two well-mineralized zones separated by a subordinate intervening section of more sparsely mineralized, to barren altered aplite. Patchy occurrences of fair to sparse mineralization occur throughout the general mass of the aplite dyke eastward of the above 'contact' section to the limit of the present cuts. An easterly extension of a number of these trenches is required to test the potential section along the easterly aplite-granite (fault?) contact zone. - *not favorable*

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Mineralization consists of bornite, chalcopyrite, chalcocite, tetrahedrite (?), and abundant upper carbonates within the near-surface zone so far exposed. The ore sulphides occur as random-fracture fillings, <sup>as small veins and for</sup> disseminations, and intermittent lenses and pods of relatively massive material, which appear to form the <sup>shallow</sup> 'high-grade' <sup>masses</sup> band on the east side of the 'contact' section. The latter material - of which a

considerable amount had been removed from the showings following 'ripping' operations - is comprised of mineral-in-place plus some 'float' of apparent local origin. The possible proportion of this float, roughly taken as one-third, is considered in current mineral estimates, but cannot be precisely evaluated until some diamond drilling has been completed within the general exploration schedule.

The current showing, on which systematic trenching and stripping have been accomplished, has an indicated average width of 50 - 60 ft., and length of 300 ft. This zone is 'open' to the north. Southward, mineralization decreases, at least locally, through trench No. 10, and reappears within trench No. 2 - 400 ft. south of trench No. 10, and from trench No. 2 is 'open' to the south boundary of the Yubet claim group. The full aplite-granite contact section is not exposed within excavations on southerly extensions of the zone. *Extensive host-rock alteration of either the older batholith, or younger aplite phase is a general exploration guide.*

The presently indicated northerly and southerly extensions of the current zone are 2000 ft. and 1000 ft., respectively, to the <sup>Yubet</sup> group boundaries.

The indicated cut-grade of mineralization within the current zone, based on cross-sectional chip samples taken across trench No. 9 and the main excavation, is approximately 0.5 oz./ton silver; 2.25% copper over an average width of 57.5 feet. Included higher-grade sections, exceeding 12 ft. in width, range from 5% to 10% copper. No attempt is made to compute tonnage and grade of potential ore blocks prior to eventual drill-core sampling.

To date 2200 l.f. of bulldozer trenching has been completed, with approximately 1000 l.f. of this, plus general stripping, within the current area of interest. The presently indicated extent of the mineralized area averages 500 feet in width and 1000 feet in length with principal concentrations at contact zones.



RECOMMENDATIONS

- (1) Additional Dozer Trenching (Dwg. 2-A), Sta. 26 trench; Sta. 33 trenches east and west of access road; "Swamp" trenches east and west of access road, plus intermediate trenches as indicated by results; also Sta. 15-B trench; Sta. 4-A trench; and extensions of two existing trenches as shown on dwg. 2-A.

- (2) Clear and picket the general exploration grid shown on Dwg. 2-A. A general spacing of 400 ft. of the N.W. - S.E. grid-lines, with intermediate lines @ 200 ft. spacing within the currently indicated zone and possible new exposures opened by future trenching is suggested.

The initial grid should generally cover the southerly four claims of the group. This grid is planned as control for general geological-geophysical surveys. Some soil sampling, regardless of the probable influence of local float, is contemplated.

ESTIMATED EXPLORATION COSTS

(1) Bulldozer-trenching,		
Current Estimate - 10 days @ 250.00		\$ 2,500.00
Provision for additional work		<u>2,500.00</u>
Sub-total		\$ 5,000.00
(2) Grid Preparation;		
Base-Line	3000 l.f.	100.00
Principal cross-lines; 5 mi @ 100.00/mi.		500.00
Intermediate cross-lines;		
2½ mi. @ 100.00/mi.		<u>250.00</u>
Sub-total		\$ 850.00

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(3) General Engineering - Supervision	
Estimate 2 mo. . . . .	\$ 2,500.00
(4) Camp and Vehicle operation	
Estimate 2 mo. . . . .	\$ 2,500.00
(5) Provision for Geophysical Survey . .	\$ 5,000.00
(6) Provision for Diamond Drilling;	
min. 800' . . . . .	\$ 8,000.00
(7) Road construction and maintenance . .	\$ 1,000.00
(8) Omissions and contingencies . . . . .	\$ 2,500.00
 TOTAL GENERAL EXPLORATION, excluding head-office and general overhead expense	 \$27,350.00

Respectfully submitted,

  
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W.M. Sharp, P. Eng.

GENERAL

The preliminary examination of the Yubet showings was made by the writer, guided and assisted by the vendors, Messrs. M. Mooney and T. Curnow, on May 31 - June 1. Following this the writer recommended acquisition of the group and quick investigation of the potential area by bulldozer trenching.

Stellako Mining Company Ltd. secured this option and commenced the recommended work under the local supervision of Mr. T. Curnow, with encouraging results.

Additional cross-trenching along the inferred trend of the zone, and local camp preparations, were recommended during the second inspection on July 11th. During the current examination the writer mapped all new exposures, sampled principal cross-sections and layed out additional dozer trenches. Layouts for the minimum 800 lin. ft. of diamond-drilling, specified by the option agreement, were also established.

The co-operation and assistance provided by Messrs. R. Trepanier, T. Curnow, and Stellako personnel is hereby thankfully acknowledged.

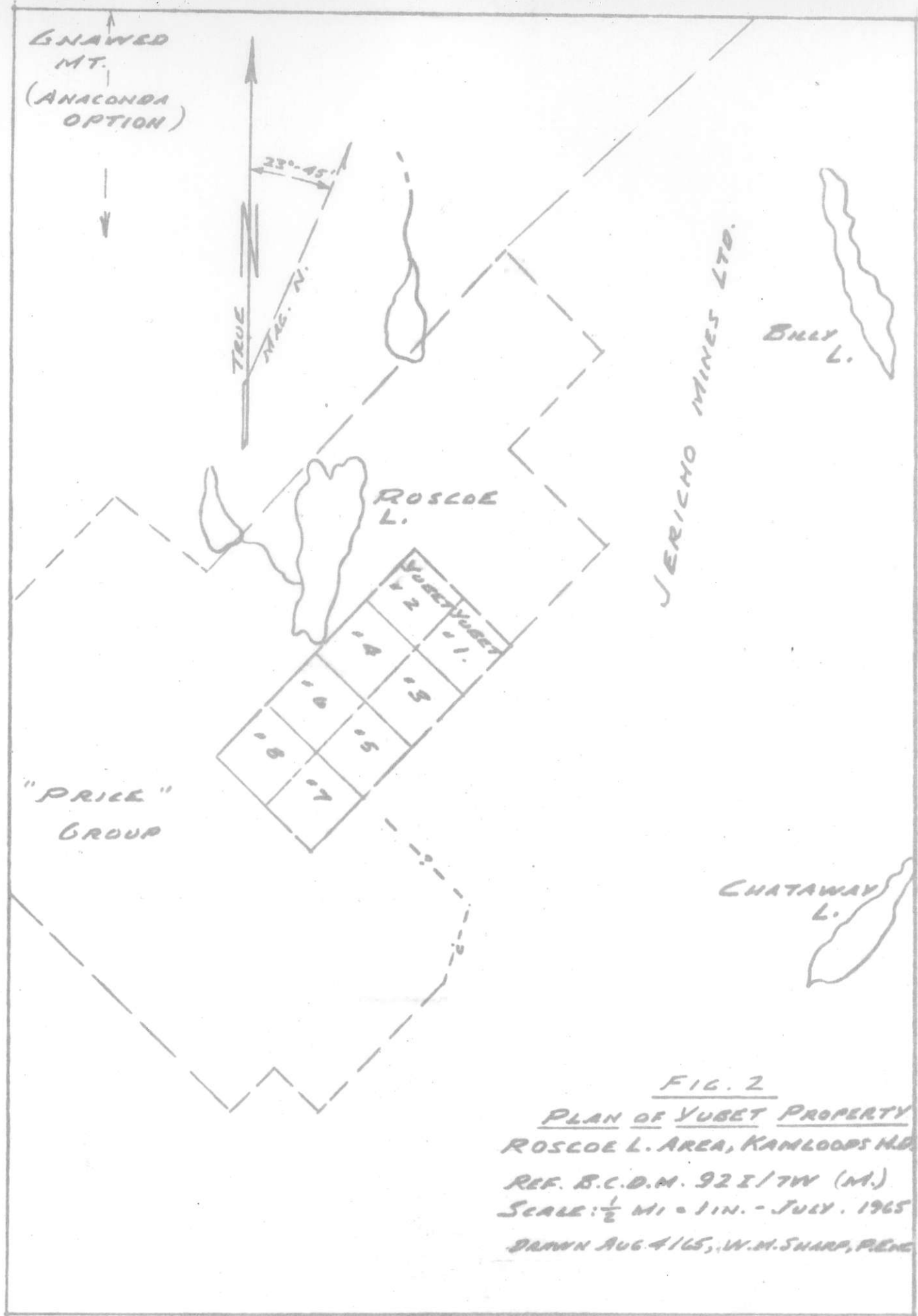


FIG. 2  
PLAN OF YUBET PROPERTY  
 ROSCOE L. AREA, KAMLOOPS H.B.  
 REF. B.C.D.M. 92 I/TW (M.)  
 SCALE:  $\frac{1}{2}$  MI = 1 IN. - JULY, 1965  
 DRAWN AUG. 4/65, W.M. SHARP, P.E.N.C.

PROPERTY

The group consists of 8 located claims within a northeasterly trending block (fig. 1-A) situated closely southwest of Roscoe Lake, south-southeast of Gnawed Mt. in the Kamloops Mining Division.

Claim record data is as follows:

<u>Name</u>	<u>Tag No.'s</u>	<u>Located by</u>	<u>Location Date</u>	<u>Direction #1 - #2 Posts</u>	<u>Record Date</u>	<u>Record No's.</u>
Yubet	495391	W.T. Curnow				
#1-#8	to	Spences	Jan. 10	S.W.	Jan. 11,	48361 -
incl.	495398	Bridge,	1965		1965	48368
	incl.	B.C.				incl.

ACCESS

The property is reached via paved road northward from Lower Nicola to the 'Aberdeen' turn-off; thence northward via the Chataway Lake road for approximately 19 miles; thence westward via one mile of new access road to the showings, and also the camp near Roscoe Lake. A new, generally lower-level access road, with moderate gradients, is being constructed down Skuhun Creek Valley for a connection with the Spences Bridge - Merritt Highway. *18 mi*

OPERATING FACTORS

The local terrain is flat, gently rolling, and covered by dense stands of lodgepole pine and occasional spruce - all typical of the lake section of the south Highland Valley area.

A few exposures of bedrock - principally the granitic 'country-rock' - occur along certain topographic lineaments. Overburden, however is light to moderate, varying from a foot to 15 feet within the present exploration area - a feature which should expedite rapid general exploration.

The area is characterized by a general near surface water-table - favourable for water supply, but limiting the extent of bulldozer trenching.

#### PREVIOUS WORK

The current exploration area was included within a major program of reconnaissance mapping, magnetometer and geochemical investigations conducted several years ago. Physical investigations were confined to manual excavation of a few small pits - presumably on local geochemical anomalies originating from local float.

#### GEOLOGY

##### (a) Regional:

The Roscoe Lake area is situated closely southwest of the geographical center of the regional Guichen Creek batholith. This body is the principal host rock of the Bethlehem Mine and several major, and numerous minor prospects within the general Highland Valley camp. The predominant rock types are granite, granodiorite, quartz diorite and diorite.

*Note all  
mefi developments  
& prospects  
you set within  
western contact  
zone.*



At the Bethlehem Mine and neighbouring major prospects, the Guichen body has been intruded by a younger complex of quartz and/or feldspar - porphyries, 'felsites', 'aprites' and related 'breccias'. Copper-molybdenum mineralization is principally related to associated fracture patterns within the younger phases or complexes - occurring as veins, lodes, mineralized boxworks, or disseminations - pervasive hydrothermal alteration of the wall rocks is characteristic of significantly mineralized zones.

(b) Local (Dwg. 2-A, 3-A)

Mineralization occurs within, or close to the contacts of an aplitic dyke, or elongate stock, which intrudes locally granitic to granodioritic phases of the *Bethesda* Guichen intrusive. The 'aprite' body has an apparent N.N.E. *tr* trench. Zones of fracturing - principally along the westerly, and probably also along the easterly contact, provide the apparent major structural control. Strike-faulting and irregular zones of fracturing within the body provide subordinate structural control.

Copper mineralization occurs in massive, veining, and disseminated forms. The normal, fresh aprite is pale brown in colour and coarsely jointed. Within mineralized areas it appears to have been subjected to general talc-carbonate and/or siliceous alteration and quartz-veining. The altered aprite has a typical *quartz veins and* watery-green tint. Mineralization observed to date favours *the more* strongly fractured brittle, siliceous areas.

The occurrences of mineralized aplitic float at, and to the north of the northerly end of the presently-explored area, together with the inferred (G.S.C.) regional southeasterly

to southerly direction of late glacial transport, indicate a general northwesterly or northerly extension of the current zone, or of the occurrence of other zones, in this direction.

### SAMPLING DATA

This was done by chipping 'ripped' and solid material along locally representative cross-sections in trench No. 9 and the main excavation - roughly 100 feet apart. These were taken to provide a preliminary indication of the probable tenor of mineralization. To compensate for the inclusion of possible 'float' material the computed average grade has been reduced by an arbitrary one-third:

- (a) Preliminary - Trench No. 2, of 'ripped' "in place" mineralized aplite;  
 No. 17286 10.0' @ tr. Ag; 0.90% Cu.
- (b) Trench No. 9  
 No. 17287 - 18' @ 0.40 oz./T. Ag; 1.45% Cu.  
 No. 17288 - 28' @ 0.20 oz./T. Ag; 1.05% Cu.  
 Included - 22' @ 0.0 oz./T. Ag; 0.0 % Cu. (Not sampled)  
 No. 17289 - 12' @ 0.20 oz./T. Ag; 9.6 % Cu.
- 'Weighted'  
 Average - 80' @ 0.20 oz./T. Ag; 2.64% Cu.
- (c) Main Excavation  
 No. 17290; 35' @ 2.1 oz./T Ag; 6.15% Cu.  
 Weighted Average (b) - (c)  
 = 57.5' @ 0.77 oz./T. Ag; 3.35% Cu.  
 "Cut-Average"  
 = 57.5' @ 0.5 oz./T. Ag; 2.25% Cu.

The above estimate is considered reasonably representative of the tenor of mineralization over the larger part of the currently-stripped principal section. Engineering estimates of over-all grade and tonnage throughout the section, and extensions, are necessarily deferred until an adequate amount of core-sampling has been accomplished. At present, general surface exploration of the group is considered to be of prior importance.



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W.M. Sharp, P. Eng.



C E R T I F I C A T E

I, W.M. SHARP, of North Vancouver, B.C., do hereby certify that:

1. I am a Consulting Geological Engineer with residence at 3280 Chestefield Avenue and Office at 161 Pemberton Avenue, North Vancouver, B.C.
2. I am a registered Professional Engineer in the Province of British Columbia.
3. I am a graduate of the University of B.C. with B.A.Sc. and M.A. Sc. degrees in Geological Engineering and have practised my profession since 1946.
4. I am not a vendor, member of the Board of Directors, or a regular employee of the Company to which this report is directed.
5. I have no interest, direct or indirect, in the properties or securities of the above Company, nor do I expect to have any such interest.
6. This report on the Yubet copper prospect is based on personal examinations made during May 31 - June 1, July 11, July 30-31, 1965, and on general data contained within Dominion & Provincial Government departmental publications.

  
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W.M. Sharp, P. Eng.

August 4, 1965,  
North Vancouver, B.C.

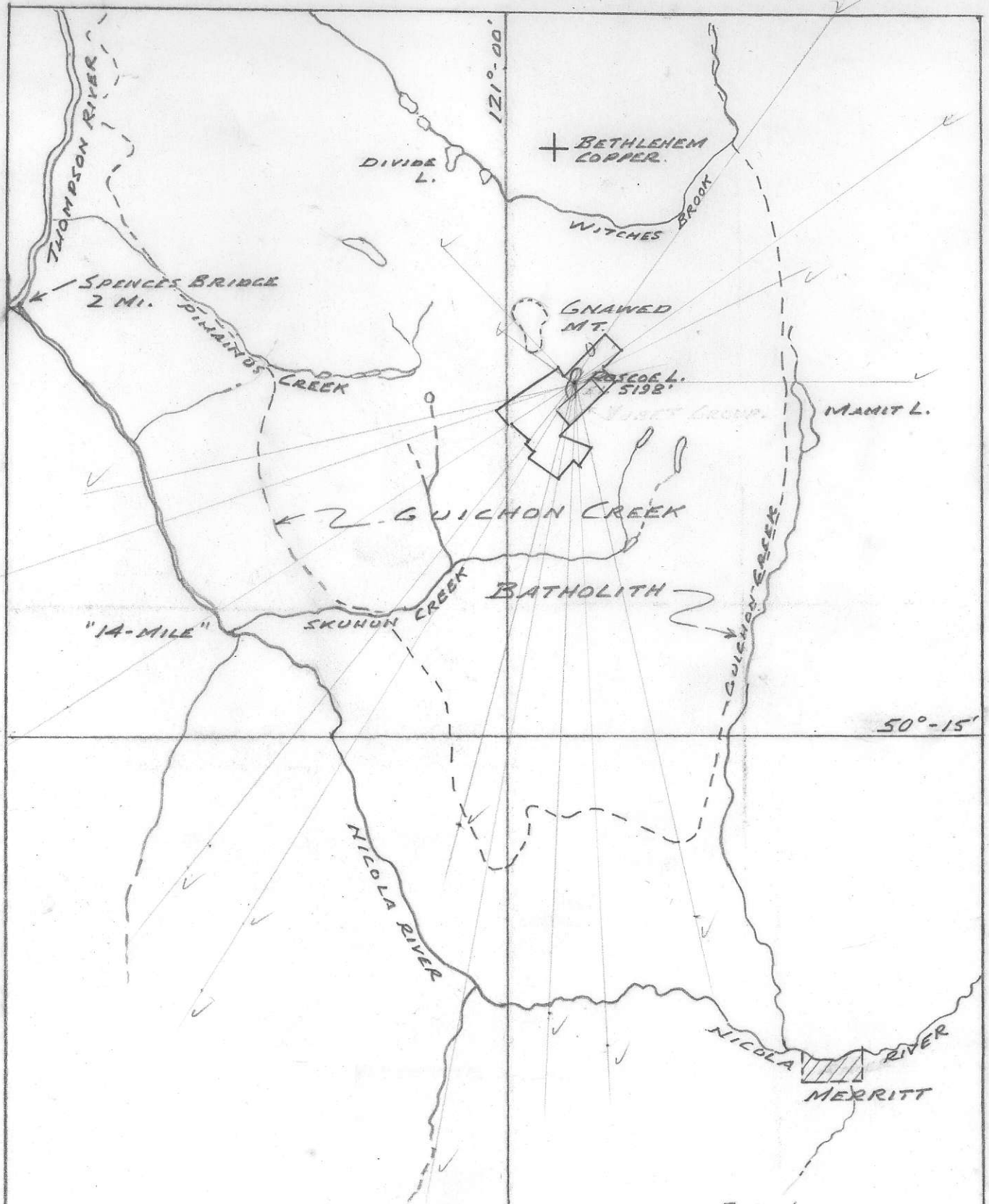
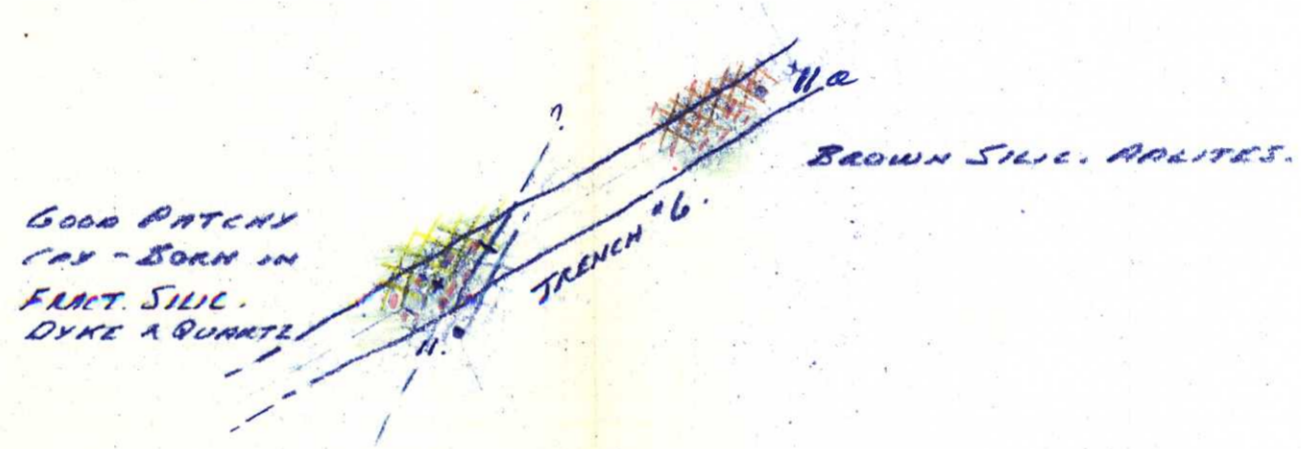
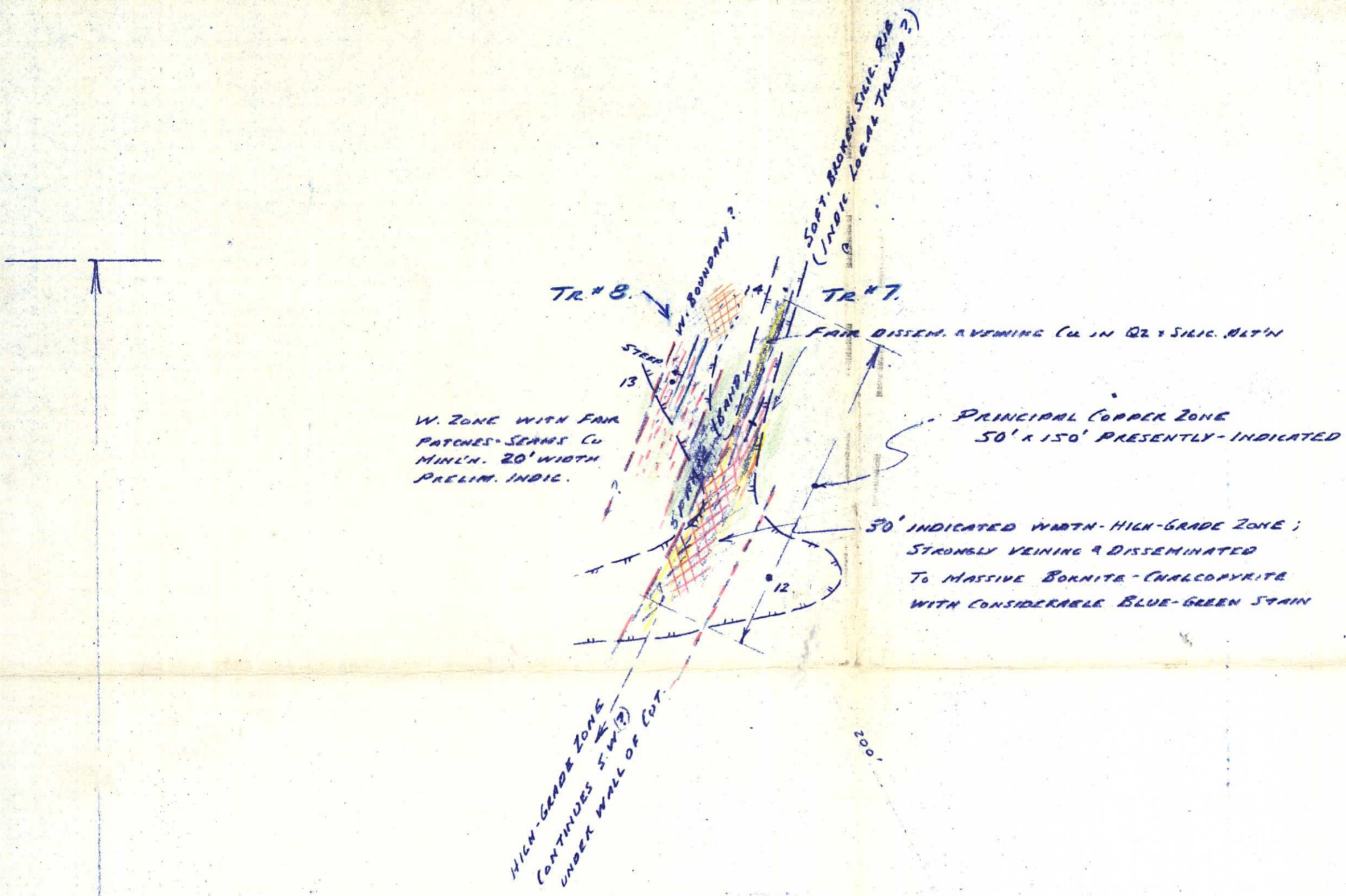


FIG. 1

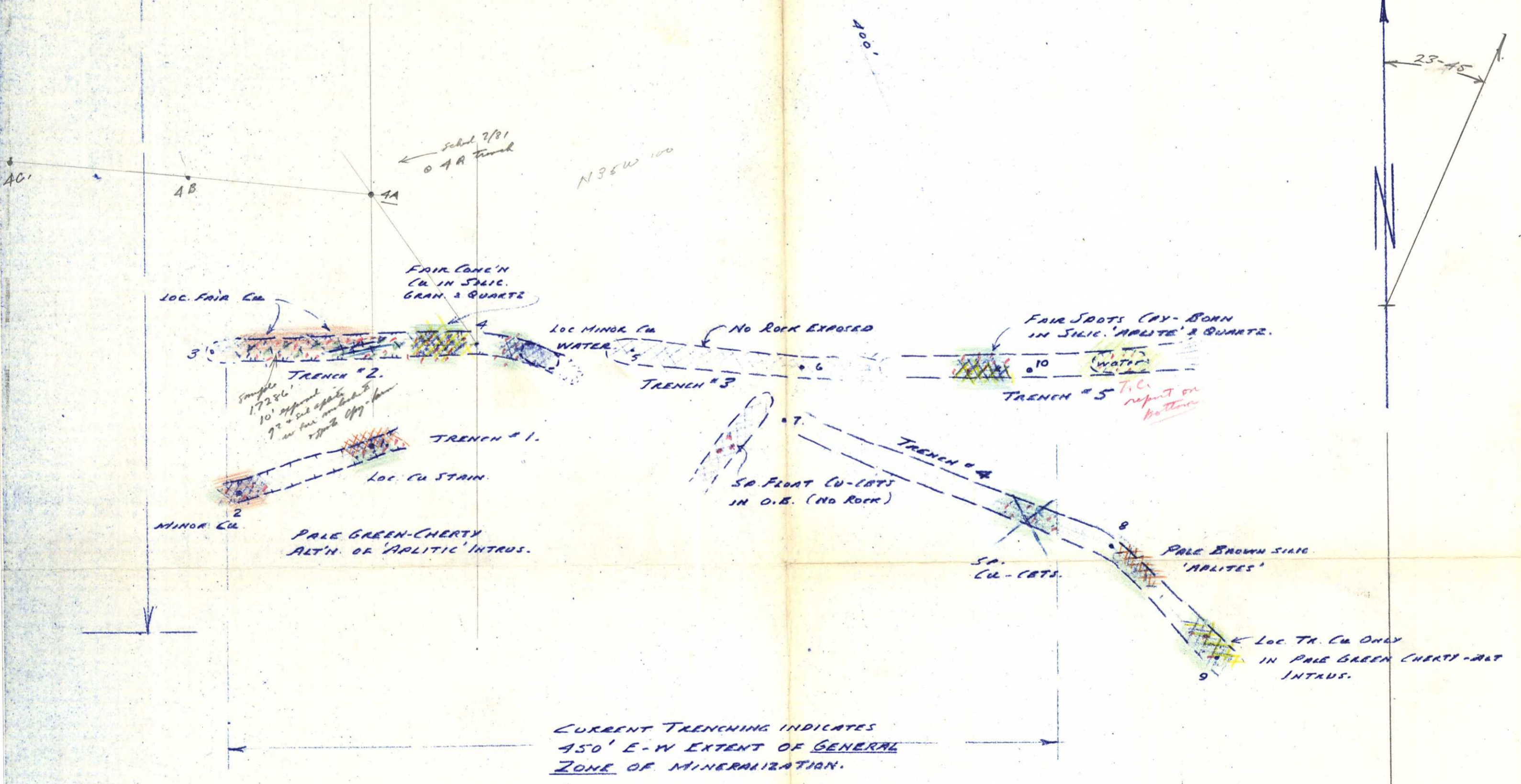
YUBET COPPER PROSPECT  
 ROSCOE LAKE, KAMLOOPS M.D.  
 REF. G.S.C. MAPS BB6A, 1010A  
 SCALE: 1 IN = 4 MI DWN. AUG. 1965

IV.M.S.











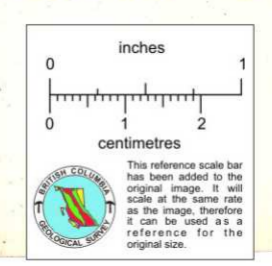
900' PRESENTLY-INDICATED N-S EXTENT OF GENERAL ZONE OF MINERALIZATION.



MAPPING SYMBOLS

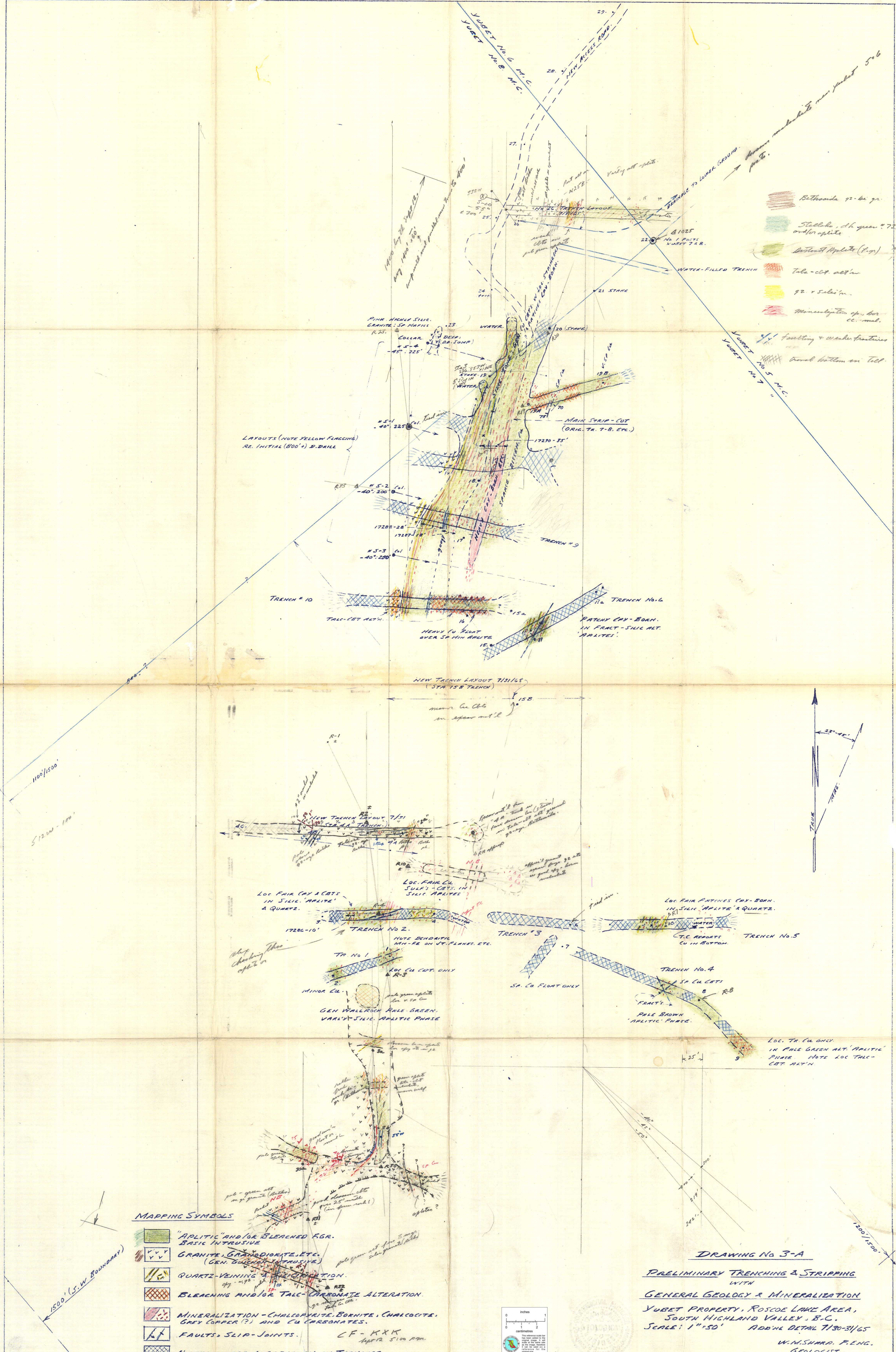
-  'APLITIC' GRANITE (BETHSAIDA PHASE?)
-  QUART VEINING & GEN SILICIFICATION
-  BLEACHING & VARIABLE SILIC (INCL. PALE-GREEN CHERTY ALTH')
-  CHALCOPYRITE-BORNITE MINER / PARTLY-MASSIVE TO DISSEMINATED.
-  PROMINENT FRACTURING / INCLINED & VERTICALS DIR
-  OVERBORDEN; BOULDER-TILL, SAND, CLAY, ETC.

GENERAL GEOLOGY & MINERALIZATION BY PRELIMINARY BULLDOZER TRENCHING YUBET No 7 M.C. ROSEDA LAKE, HIGHLAND VALLEY, B.C. SCALE: 1"=50'; EX. JULY 11, 1965



W. M. Akamp, P. Eng.





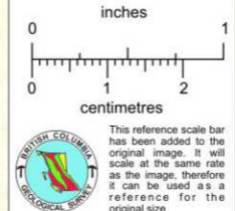
- Bathonda gr. - bc gr.
- Stebbins, dk green # 733 or/for aplite
- Disturbed Aplite (f.g.)
- Talc-cst. alt'n
- gr. & silic'n.
- Mineralization sp. for cc. anal.
- faulting & weaker fractures
- basal bottom on Talc

**MAPPING SYMBOLS**

- "APLITIC" AND/OR BLEACHED RGR. BASIC INTRUSIVE
- GRANITE, GRANODIORITE, ETC. (GEN. BATHOLIC INTRUSIVE)
- QUARTZ-VEINING
- BLEACHING AND/OR TALC-CHRONATE ALTERATION
- MINERALIZATION - CHALCOPYRITE, BORNITE, CHALCOCITE, GREY COPPER (?) AND CU CARBONATES.
- FAULTS, SLIP-JOINTS.
- UNEXCAVATED OVERBURDEN IN TRENCHES.

**DRAWING No 3-A**  
**PRELIMINARY TRENCHING & STRIPPING**  
 WITH  
**GENERAL GEOLOGY & MINERALIZATION**  
 YUBET PROPERTY, ROSCOE LAKE AREA,  
 SOUTH HIGHLAND VALLEY, B.C.  
 SCALE: 1"=50' ADD'DL DETAIL 7/30-31/65

W.N. SHARP, P. ENG.  
 GEOLOGIST



CF - KXK  
 APR 12, 5:00 PM