

EMPEROR MINES LTD. (N.P.L.)

PROGRESS REPORT, INVESTIGATIONS

PAGI-JSK MINERAL CLAIMS

WATSON LAKE MINING DISTRICT

YUKON TERRITORY

14 FEBRUARY 1969

EMPEROR MINES LTD. (N.P.L.)

PROGRESS REPORT, INVESTIGATIONS  
PAGI-JSK MINERAL CLAIMS  
WATSON LAKE MINING DISTRICT  
YUKON TERRITORY

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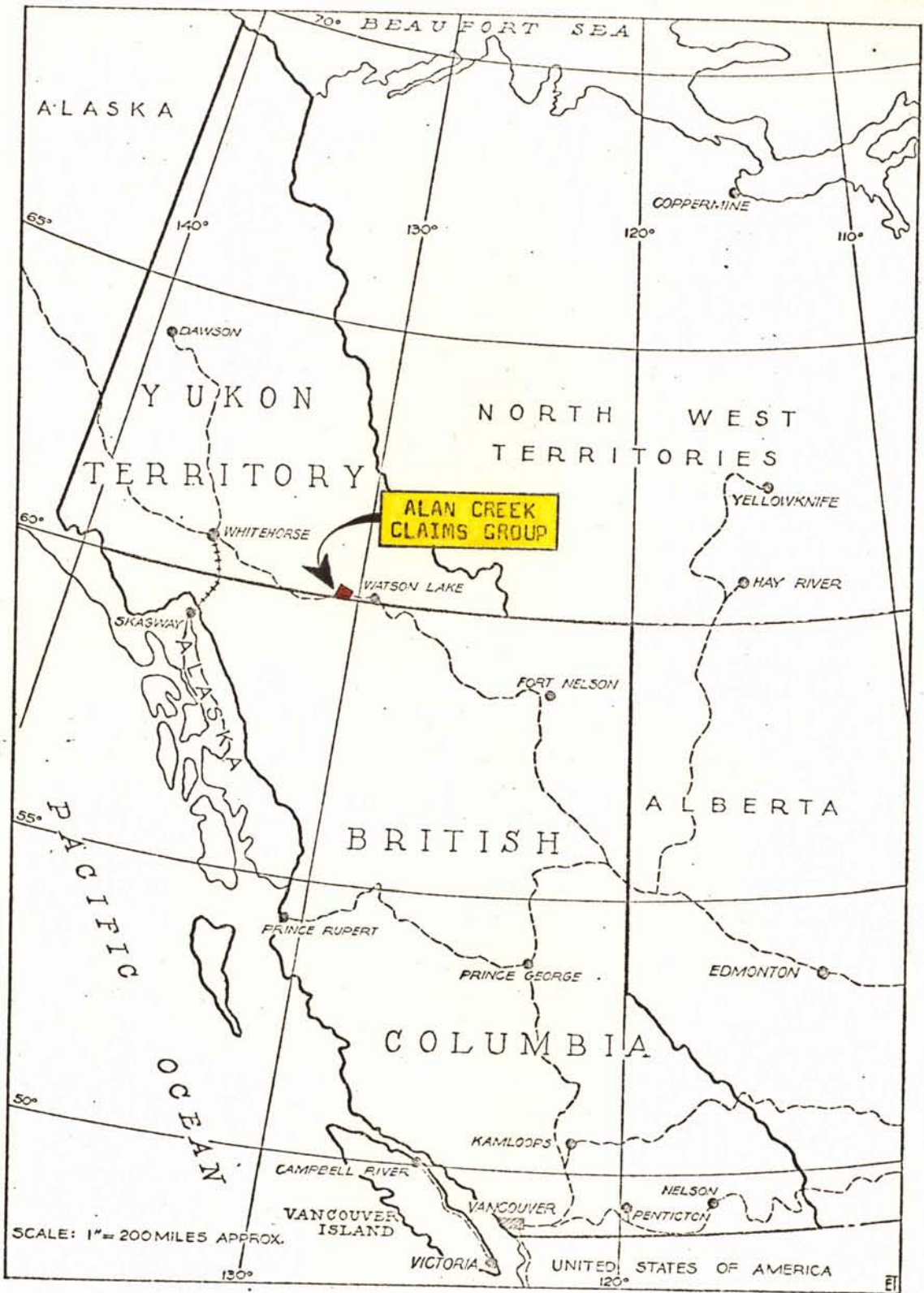
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PROGRESS REPORT, INVESTIGATIONS  
PAGI-JSK MINERAL CLAIMS  
WATSON LAKE MINING DISTRICT  
YUKON TERRITORY

ILLUSTRATIONS

- Figure: 1            Frontispiece, General Location
- Figure: 2            Alan Creek Claims Group,  
                         Topography and Geology
- Figure: 3            Alan Creek Claims Group,  
                         Proposed Access and Development  
                         Road
- Figure: 4            Photographs, Alan Creek Mineral  
                         Claims Group



LOCATION

EMPEROR MINES LTD. (N.P.L.)  
ALAN CREEK CLAIMS GROUP  
WATSON LAKE MINING DIST.  
YUKON TERRITORY

WEYMARK ENGINEERING LTD.

Consulting Engineers

3310 WESTMOUNT ROAD  
WEST VANCOUVER, B.C.  
CANADA

1.

TELEPHONE  
922-1536

14 February 1969

Mr Harry Yen, President,  
EMPEROR MINES LTD. (N.P.L.),  
Suite 1108, Baxter Building,  
1111 West Hastings Street,  
VANCOUVER 1, British Columbia.

Dear Mr Yen,

RE: Progress Report, Investigations  
PAGI-JSK Mineral Claims  
Watson Lake Mining District  
Yukon Territory

I am pleased to submit for your information, this Progress Report covering the scope and results of the Programme of Works undertaken in the Exploration of the mineral potentialities of the Pagi-JSK Mineral Claims situated in the Watson Lake Mining District, Yukon Territory (see Figure: 1) during 1968.

1.0 PROPERTY:

The claims presently held by Emperor Mines Ltd. (N.P.L.) involve the following. Reference is to Figure: 2 for general details.

<u>Claim</u>	<u>Record and Tag Number</u>
Pagi 3-6 incl.	89587-90
JSK 1-2	Y22503-504
JSK 7-12	Y22505-510
JSK 14	Y22511

2.0 LOCATION:

The claims are located about five miles south of Mile:705 on the Alaska Highway between Freer and Alan Creeks and north of the Yukon-British Columbia border. The geographic reference is 130°35' West - 60°00' North. Elevation ranges between 4000 to over 6000 feet in altitude.

3.0 ACCESSIBILITY:

The claims area is relatively inaccessible and may be reached only conveniently by helicopter or by horseback or by bombardier via the turnoff road connecting Mile:706 with the micro-wave tower and the Dale Mine, see Figure: 3.

Progress Report, Investigations, PACI-JSK Mineral Claims, Watson Lake Mining District, Yukon Territory; 14 February 1969

4.0 PHYSIOGRAPHY:

As shown on Figure: 3, these claims are situated within the Cassiar Mountain formation and the Rancheria-Liard River drainage basin. Elevations within the claims group range from 4000 to 6000 feet in altitude. The area is rugged and mostly lies above the timber line. The creek beds are mostly talus and debris strewn, see Figure: 4. Except for the faces of the mountains, the slopes and bottom land are talus covered. Approaches to the claims area involve swamp crossing or boulder strewn terraces. Most of the peaks and slopes are snow covered year round.

5.0 GEOLOGY:

The reference coverage for the Geological-Mineralogical and structural controls of the claims area is outlined on Map No: 10-1960 entitled Geology-Wolf Lake, Yukon Territory, released by the Geological Survey of Canada, 1960 with geology by W. H. Poole, J. A. Reddick and L. H. Green. The dominant rocks include the various derivatives of the Cassiar Batholith, mainly quartz monzonite and granodiorite. Remnants of earlier sediments of possibly Cambrian or Precambrian age consist of quartzites, phyllites, argillites, greywacke and limestone. Because of the overburden cover and difficult means of traverse, determination of detailed geological features has been restricted. Figure: 2 presents the preliminary plot of the geological information obtained during the 1968 field season. As shown thereon, the eastern portion of the claims area is underlain with granodioritic rocks. The central portion includes a sedimentary complex and the western section again is underlain with granodiorites. The dominant structural feature is the northerly trending shear zone within the sediments near the contact with the intrusives. Further investigation is required in order to obtain a detailed interpretation of the controlling geological features referenced to economic mineral possibilities.

6.0 MINERAL ZONES:

The principal mineral zone discovered on the claims area is within the sheared zone, as shown on Figure: 2, which may be traced for several hundreds of feet. On the British Columbia side, about four hundred feet south of the border, the original Discovery Vein was located and contained galena, pyrite, hematite and other metallic minerals. The expression on the Yukon side is marked by its overcapping of manganite stained and well fractured rocks. Because of the talus cover and the indicated depth to solid rock, investigation of the possibility of this zone and extension of the vein has been restricted.

Other possibilities include parallel fissure veins similar to the Shipment vein on the British Columbia side of the border occurring within the granodiorite mass. This type of occurrence evidences high grade silver-lead-copper containing quartz veins. The strike of these veins will probably conform to that exhibited elsewhere as being northeasterly. Use of geophysical or other mediums will undoubtedly have to be employed to investigate these possibilities because of the talus and glacial debris cover.

Progress Report, Investigations, PAGI-JSK Mineral Claims, Watson Lake Mining District, Yukon Territory; 14 February 1969

**7.0 EXPLORATION AND INVESTIGATION:**

**PROPOSED:** The following programme of works was recommended in our programme of 14 March 1968 for the assessment of the economic mineral potentialities of the claims group referred to herein.

1. Prospecting.....	\$2,500.00
2. Bulldozer Trenching.....	2,000.00
3. Topographic Surveys.....	1,000.00
4. Geophysical Surveys.....	2,000.00
5. Geological Mapping.....	2,000.00
6. Diamond Drilling.....	15,000.00
7. Road Construction.....	10,000.00
8. Sampling and Engineering.....	4,000.00
9. Camps and Establishment.....	6,000.00
10. Administration and Travel.....	5,500.00
TOTAL.....	\$50,000.00

**COMPLETED:** Due to the lateness of break-up and the heavy snow carry-over, considerable difficulty was experienced in providing access routes and the establishment of camp facilities and consequently the proposed programme could not be completed.

- 1. Prospecting:** This phase of the programme was carried out - prospecting and trenching in the shear zone. About two months were spent in this work. Extension of the shear zone was revealed, as shown on Figure: 2.
- 2. Bulldozer Trenching:** No bulldozer trenching was undertaken because of limited access.
- 3. Topographic Surveys:** A topographic map of the claims area was prepared from aerial photographs, see Figure: 2.
- 4. Geophysical Surveys:** No geophysical surveys were undertaken.
- 5. Geological Mapping:** Figure: 2 presents the scope and results of the geological mapping carried out. This was by pace and compass.
- 6. Diamond Drilling:** No diamond drilling was carried out on the claims area.
- 7. Road Construction:** The originally proposed route, as shown on Figure: 3 had to be abandoned because of rock ledges and swamp areas. The alternative route was partially completed. A total of 10 miles of road, partially passable for four-wheel drive vehicle and/or bombardier type track vehicle was completed.

Progress Report, Investigations, PAGI-JSK Mineral Claims, Watson Lake Mining District, Yukon Territory; 14 February 1969

7.0 Exploration and Investigation (continued)

8. Sampling and Engineering: Only specimen samples were collected. Engineering involved examinations of the claims area, mapping, road route selection and related aspects.
9. Camp and Establishment: A camp was established in the area as shown on Figure 3 and involved a camp cook-bunk house accommodating six men.
10. Administration and Travel: This phase of programme direction was carried out from Company Headquarters in Vancouver.

Reference is made to the accompanying Audit Statement for details of the expenditures.

8.0 PROPOSED PROGRAMME FOR 1969:

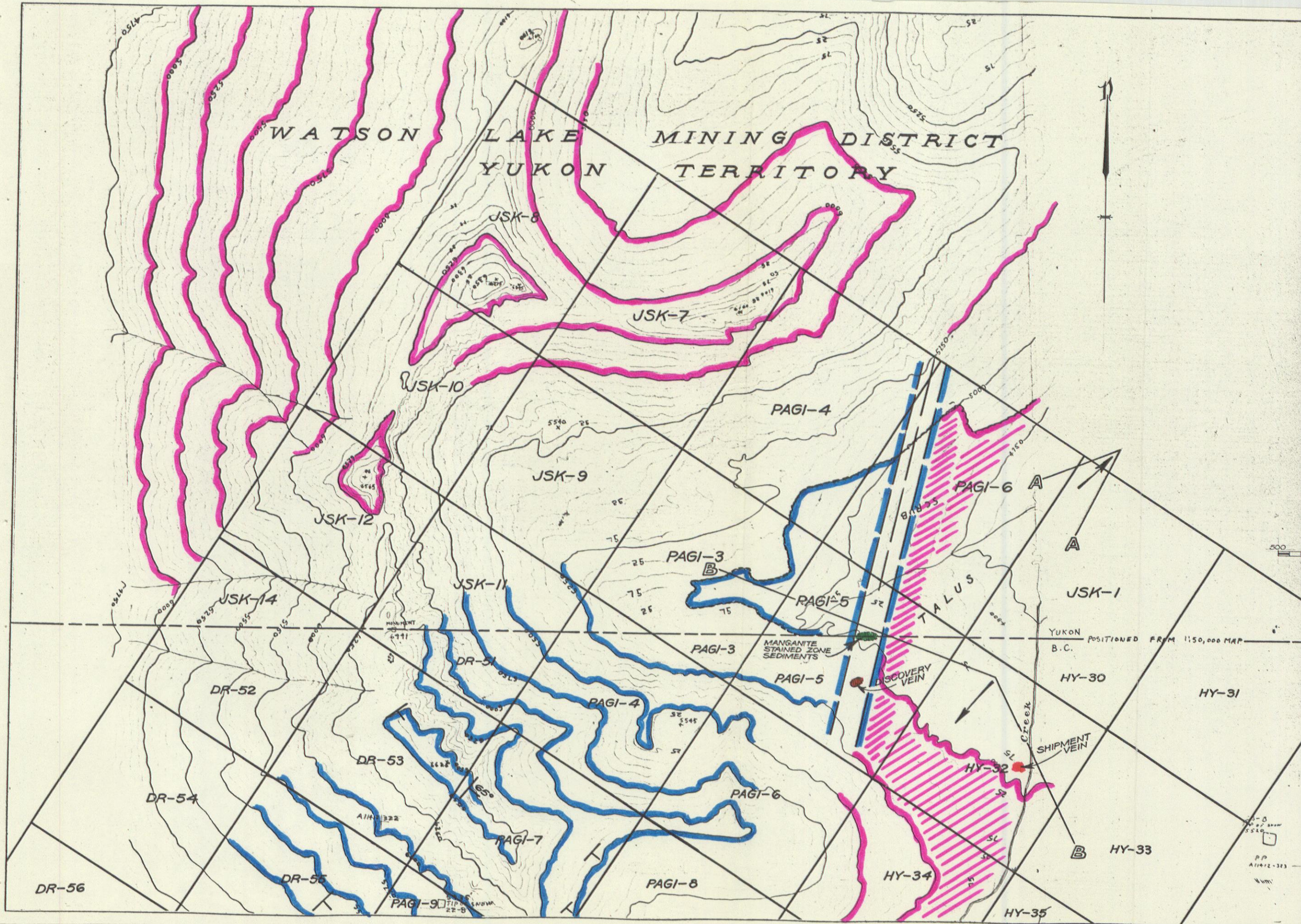
The following programme of exploration and investigation is proposed for 1969 to be commenced as soon as climatic and ground conditions permit.

1. Prospecting.....	\$3,000.00
2. Trenching.....	2,000.00
3. Topographic Mapping.....	2,000.00
4. Geophysical Survey.....	2,000.00
5. Geological Mapping.....	2,000.00
6. Road Construction.....	6,000.00
7. Diamond Drilling.....	10,000.00
8. Engineering and Tests.....	3,000.00
9. Camps and Establishment.....	5,000.00
10. Administration and Travel.....	5,000.00
TOTAL.....	\$40,000.00

Yours truly,

  
W. J. WEYMARK, P.Eng.,  
President.

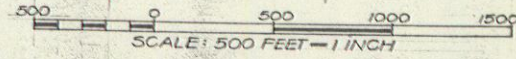
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**GEOLOGICAL LEGEND**

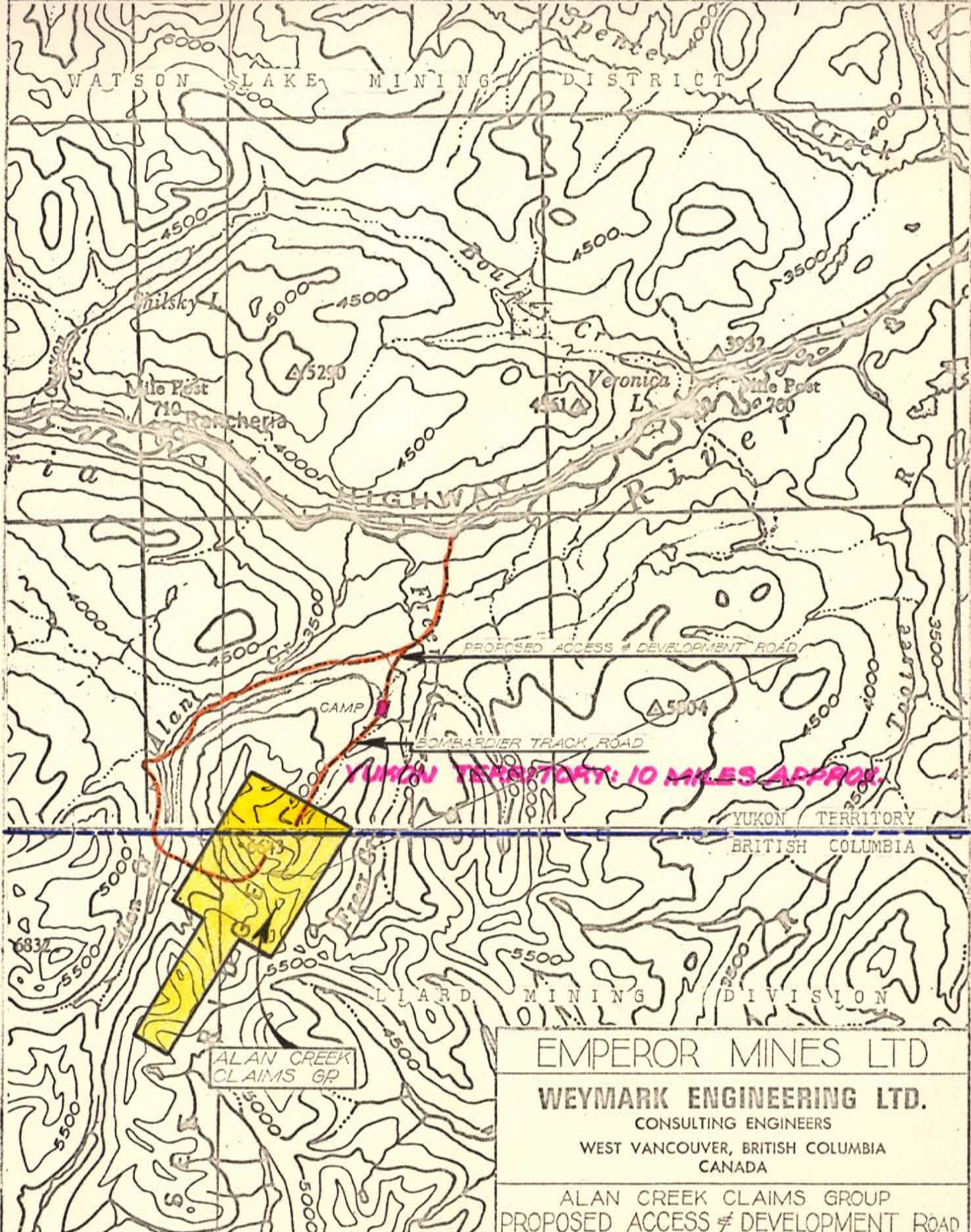
- MESOZOIC: JURASSIC AND/OR CRETACEOUS  
 CASSIAR BATHOLITH: MAINLY BIOTITE QUARTZ MONZONITE AND GRANODIORITE, IN PART SHEARED AND ALTERED;  
 RAM STOCK: SAUSSURITIZED BIOTITE HORNBLENDE QUARTZ MONZONITE AND GRANODIORITE, IN PART SHEARED;  
 LOGJAM STOCKS: MAINLY BIOTITE-HORNBLENDE QUARTZ MONZONITE WITH BASIC BORDERS, BIOTITE-MUSCOVITE GRANODIORITE.
- PALEOZOIC: CAMBRIAN LOWER CAMBRIAN: GREY LIMESTONE, MINOR DOLOMITE, SLATE & PHYLLITE, UNFOSSILIFEROUS, MINOR GREY AND GREEN ARGILLITE, MARBLE, SHARN.

REFER TO FIG. 4 FOR PHOTOGRAPHS OF SECTIONS A—A & B—B.



REFERENCE: RECONNAISSANCE MAP # 60-25, SCALE: 500 FEET TO 1 INCH (50'-25') CONTROL BASED ON EXISTING MAPS BY LOCKWOOD SURVEY CORPORATION LTD., VANCOUVER, B.C.

EMPEROR MINES LTD. (N.P.L.)	
<b>WEYMARK ENGINEERING LTD.</b> CONSULTING ENGINEERS WEST VANCOUVER, BRITISH COLUMBIA CANADA	
ALAN CREEK CLAIMS GROUP TOPOGRAPHY & GEOLOGY	
DATE 14 FEB/69.	SCALE AS SHOWN
SUBMITTED W.W.W.	CHECKED W.W.W.
DRAWN	FILE No. EM-1.
TRACED E. Taylor	CONTRACT EM-1.



REFERENCE: TOPOGRAPHICAL MAP 105B (FIRST EDITION), WOLF LAKE, YUKON TERRITORY & TOPOGRAPHICAL MAP 104-O (FIRST EDITION), JENNINGS RIVER, B.C., 1952, DEPT. OF MINES & TECHNICAL SURVEYS, OTTAWA.

REVISED TO 15 OCT/68.

DATE	31 MAY/68	SCALE	1" = 2 MILES approx.
SUBMITTED	W.J.W.	CHECKED	W.J.W.
DRAWN	E. Taylor	FILE No.	EM-1.
TRACED		CONTRACT	EM-1.

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**WEYMARK ENGINEERING LTD.**  
 CONSULTING ENGINEERS  
 WEST VANCOUVER, BRITISH COLUMBIA  
 CANADA

ALAN CREEK CLAIMS GROUP  
 PROPOSED ACCESS & DEVELOPMENT ROAD

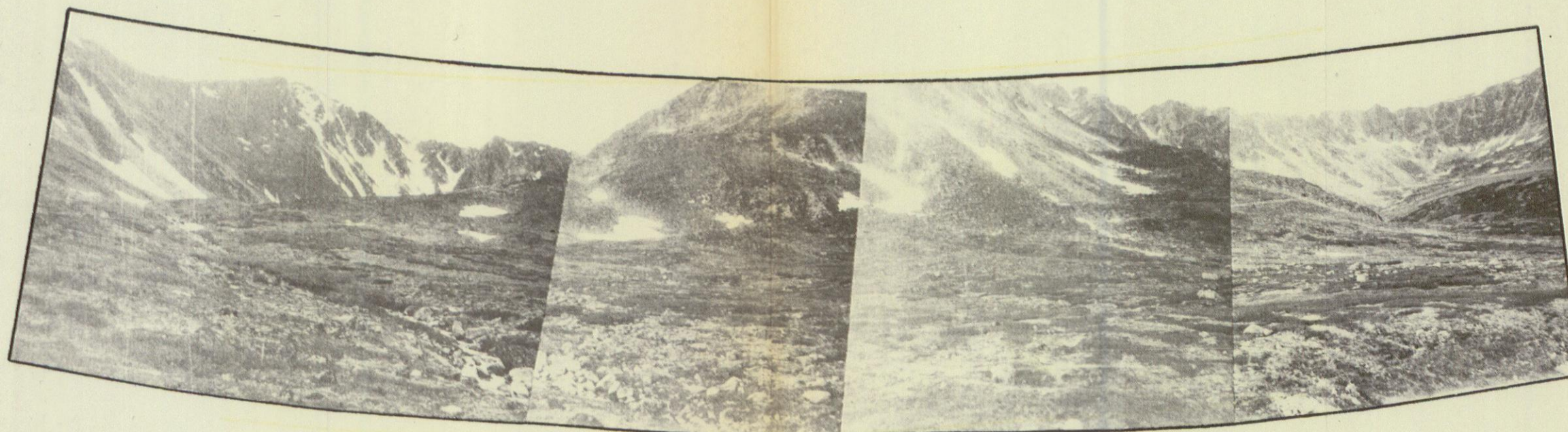
FIG: 3



VIEW OF CAMPSITE



DOWNSTREAM VIEW OF ACCESS ROUTE TO CLAIMS AREA (SEE FIG. 1, SECTION A—A)



SOUTHWESTERLY PANORAMIC VIEW OF CLAIMS AREA — YUKON/BRITISH COLUMBIA BORDER SECTION (SEE FIG. 1, SECTION B—B)

PHOTOGRAPHS TAKEN AUGUST 1968

EMPEROR MINES LTD (N.P.L)	
<b>WEYMARK ENGINEERING LTD.</b>	
CONSULTING ENGINEERS	
WEST VANCOUVER, BRITISH COLUMBIA CANADA	
PHOTOGRAPHS :- ALAN CREEK MINERAL CLAIMS GROUP	
DATE	14 FEB/1969
SUBMITTED	W.J.W.
DRAWN	E. Taylor
TRACED	
SCALE	—
CHECKED	W.J.W.
FILE No.	EMP-1.
CONTRACT	EMP-1.