



REPORT ON THE "A" CLAIM GROUP

BRAINE CREEK AREA

MAYO MINING DIVISION

YUKON TERRITORY

North Latitude: 64°25'  
West Longitude: 134°55'

A1-4 · Y5025-28 106D7

on behalf of

DAWSON RANGE MINES LTD. (N.P.E.)

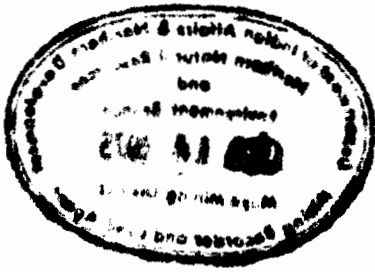


by:

G. C. Gutrath, B.Sc., P.Eng., Geologist  
ATLED EXPLORATION MANAGEMENT LTD.

August, 1974

090084



This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$100.00

*[Signature]*

Resident Geologist or  
~~Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

*[Signature]*

B.R. BAXTER  
Supervising Mining Recorder

Commissioner of Yukon Territory



A CLAIM GROUP  
BRAINE CREEK AREA  
MAYO MINING DIVISION

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INTRODUCTION

This report is written at the request of Mr. P. Polischuk  
President of Dawson Range Mines Ltd. (N.P.L.)

The property was examined on August 12, 1974 with Mr. M.  
Cloutier. The A claims #1 to #4 were checked and they are staked  
according to the Yukon Quartz Mining Act. Mr. Cloutier staked an  
additional 12 contiguous claims while the writer was carrying out the  
property examination.

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## SUMMARY AND CONCLUSION

The A group of 16 contiguous claims is located on the east side of Braine Creek in the north central Yukon.

Access to the property is by helicopter from the community of Mayo, located 65 miles to the south.

The claim group is underlain by Precambrian dolomites that have been intruded by a gabbro stock of Cretaceous age.

A lead-zinc-copper-silver mineralized zone is located in a small creek that drains the claim group. The mineralization consists of galena, sphalerite, chalcopyrite, pyrrhotite and pyrite. The layered sulphide minerals occur as massive bands up to six inches wide bordered by lower grade altered dolomite.

The zone has a true width of 5.5 feet and strikes south 80° east and dips 27° to the south. It can be traced for 300 feet to the north before it is obscured by overburden. To the south the zone is completely masked by talus.

One sample across a true width of 5.5 feet assayed 0.003 ounces per ton gold, 1.57 ounces per ton silver, 2.61% zinc, 7.13% lead and 0.40% copper.

The second sample was composed of massive sulphides and assayed 0.005 ounces per ton gold, 4.48 ounces per ton silver, 20.6% lead, and 14.4% zinc and 0.64% copper.

Additional work is required to determine the extent and grade of the mineralized zone and the entire claim group should be prospected to see if additional zones can be located.

HISTORY

The property was located by Mr. M. Cloutier while carrying out reconnaissance prospecting and geochemical silt sampling program.

There has been no other work done on the property.

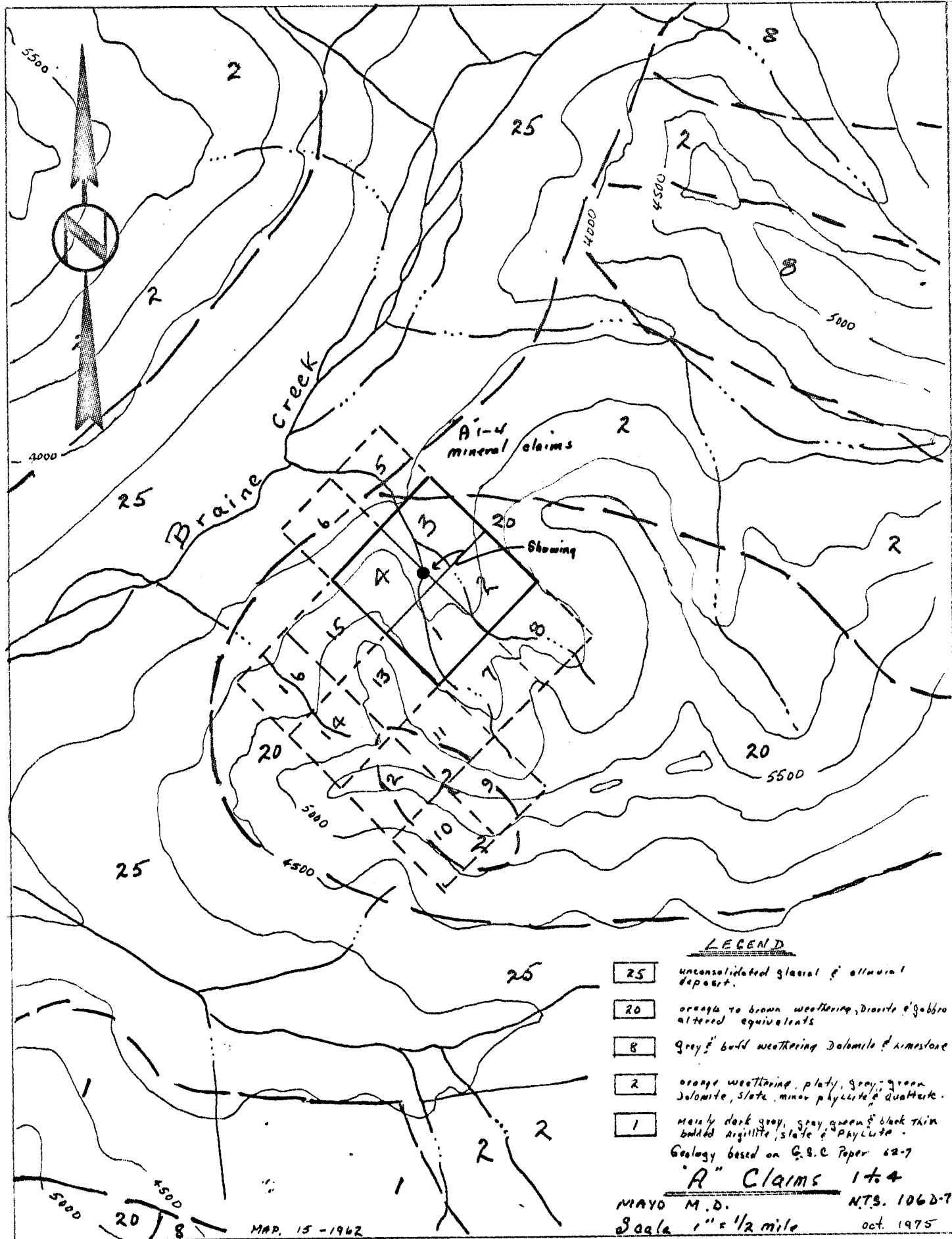
At the present time this particular area is being actively investigated by a number of companies. Cypress Resources Ltd. drilled a silver occurrence at Grey Copper Hill 12 miles to the west, and Anvil Mines Ltd. are drilling a property near Kathleen Lake 20 miles to the east of the "A" group.

CLAIMS

The A claim group was staked by Mr. M. Cloutier.

<u>NAME</u>	<u>RECORD NUMBER</u>	<u>EXPIRY DATES</u>
A1 to A4	Y95025-Y95028	August 5, 1975
A5 to A16	Y96477-Y96488	August 27, 1975

The claims are located in the Mayo Mining Division, NTS 106-D-7



LEGEND

- 25 unconsolidated glacial & alluvial deposit.
- 20 orange to brown weathering, Diabase & Gabbro altered equivalents
- 8 grey & buff weathering Dolomite & limestone
- 2 orange weathering, platy, gray-green Dolomite, slate, minor phyllite & quartzite.
- 1 mainly dark gray, gray-green & black thin bedded argillite, slate & phyllite.

Geology based on G.S.C. Paper 62-7

"A" Claims 1 to 4

MAYO M.D. N.T.S. 106D-7  
 Scale 1" = 1/2 mile oct. 1975

MAR. 15 - 1962

RECOMMENDATION

The following exploration program is recommended to explore the claim group.

Phase I

1. Hand trench and sample the mineralized zone in the creek and along strike to the north and south.
2. Carry out a reconnaissance geochemical, geological and prospecting program on the entire claim group, with special attention being given to the magnetic anomalies that outline the contacts of the gabbro intrusive.

Phase II

Phase II will be contingent on the results of Phase I. If the results of the trenching are favourable drilling will be required to test the mineralized zone on the creek. Geochemical anomalous or additional mineralized zones located by the Phase I program will require more detailed investigation.



ESTIMATED COSTS

Phase I

1.	Supervision and geological mapping 5 days @ \$150.00/day.....	\$ 750.00
2.	Geochemical silt sampling and prospecting 10 days - 2 men @ \$100.00/day.....	1,000.00
3..	Trenching 10 days - 2 men @ \$125.00/day.....	1,250.00
4.	Food and accommodation 50 man/days @ \$15.00/day.....	750.00
5..	Analysis Assaying.....	\$ 500.00
	Geochemical analyses.....	250.00.....
		750.00
6.	Transportation Scheduled Aircraft.....	1,000.00
	Helicopter 6 hours.....	2,400.00.....
		<u>3,400.00</u>
		7,900.00
	Overhead and contingencies @ 20%.....	<u>1,580.00</u>
		<u>\$ 9,480.00</u>

Phase II (Contingent on Results of Phase I)

1.	1,000 feet of diamond drilling at an overall cost of \$30.00/foot.....	\$ 30,000.00
2.	Trenching, sampling and detailed geological mapping.....	15,000.00
		<u>\$ 45,000.00</u>

## GEOGRAPHY

### Location

The property is located on the east side of Braine Creek, a tributary of the Beaver River in the Yukon Territory. The community of Mayo is 65 miles to the southeast of the property.

Approximate co-ordinates of the property are 64°25' north latitude and 134°55' west longitude.

### Access

Access to the property is by helicopter from Mayo. A winter tote road from Mayo follows the west side of Braine Creek.

### Topography

The claims group cover a west facing cirque valley between the elevations of 3300 feet and 5500 feet. The mineralized zone is located on the north fork of the creek at an approximate elevation of 3,800 feet.

### Climate

The climate is typical of the north central Yukon. Rain fall would vary from 20 to 25 inches per year and the maximum compacted winter snowfall at the 3,800 foot elevation would be 6 feet. The area would be free of snow from mid June to the end of September.

MAP OF  
THE YUKON TERRITORY

SCALE IN MILES

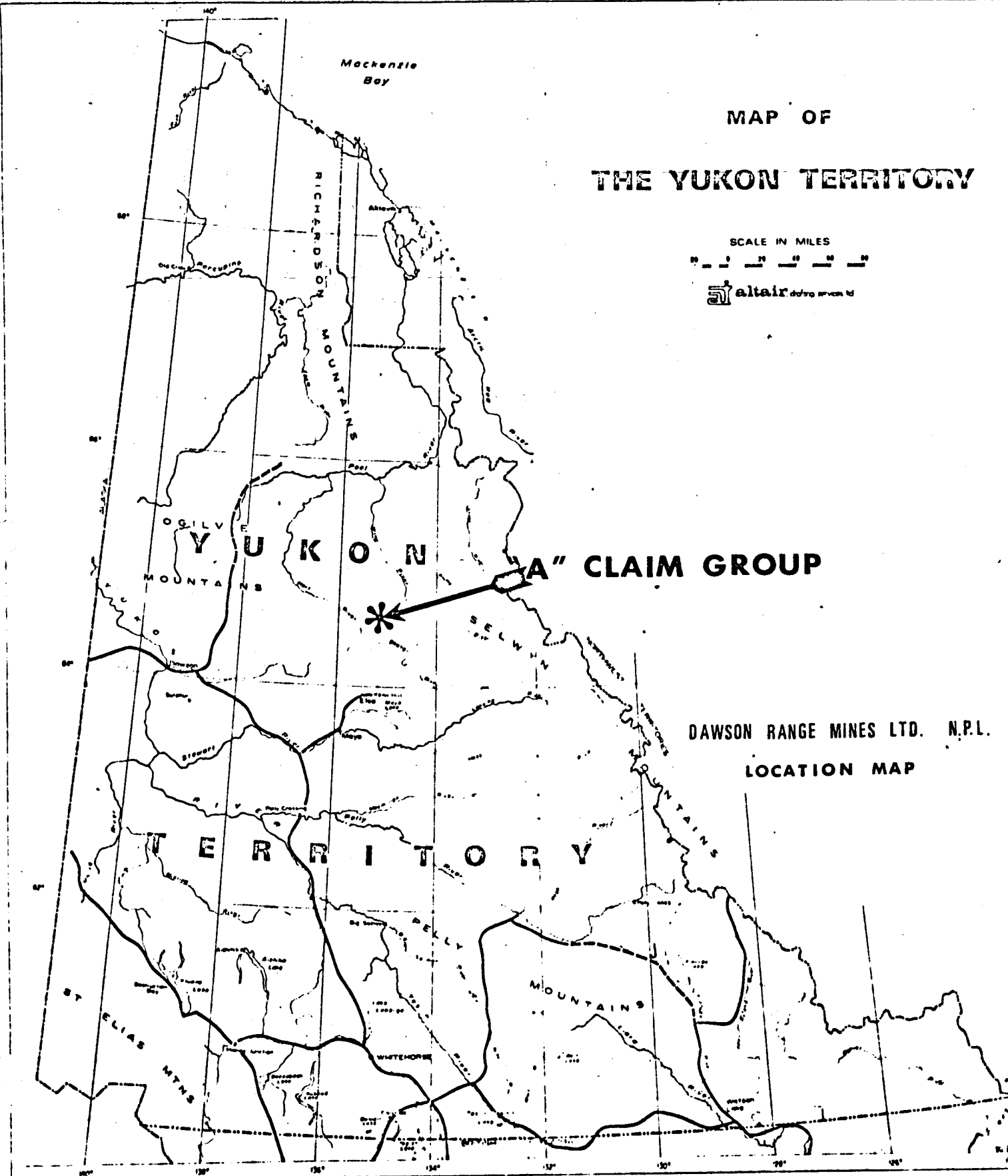


altair

YUKON "A" CLAIM GROUP



DAWSON RANGE MINES LTD. N.P.L.  
LOCATION MAP



Vegetation

The majority of the cirque valley and the showing area as above timber line. In the valley of Braine Creek there is spruce suitable for mine timbers and general construction lumber.

Water

There is ample water on the property for drilling requirements.

## GEOLOGY

### General

The general geology of the area has been mapped on a scale of 1 inch equals 4 miles by G. H. Green and J. A. Roddick, 1961 of the Geological Survey of Canada and reported on in Memoir 364.

The A-Group lies in a northwesterly trending sedimentary belt of Precambrian age that is primarily composed of dolomite with minor limestone, argillite, conglomerate and quartzite. This series has been intruded by a number of stocks, sills and dikes of diorite to gabbro composition that are believed to be Cretaceous age or older.

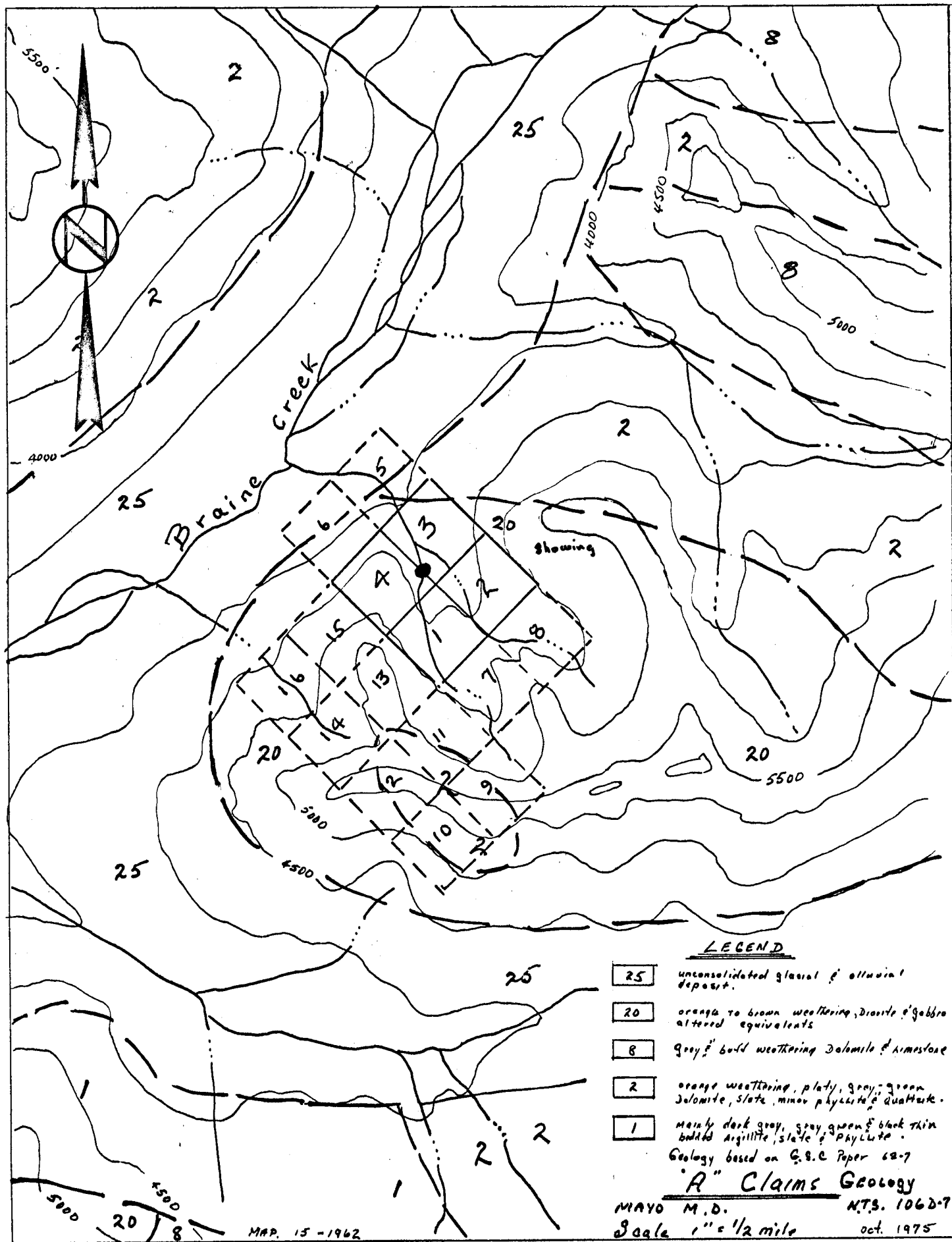
### Property

The claim group is underlain by Precambrian dolomite that has been intruded by a large stock of gabbro composition.

The dolomite is a light grey green colour, strikes southeast to easterly and dips at 20° to 30° to the south. The dolomites have undergone a varying amount of alteration depending on its proximity to the intrusive contact.

The gabbro is dark grey to dark brown in colour and has been weakly chloritized and serpentized.

A lead-zinc-copper mineralized zone is located in the south fork of the westerly flowing creek that originates at the head of the cirque valley. The zone is exposed in the creek over a distance of 20 feet and can be traced to the north for approximately 300 feet before it is obscured by overburden and vegetation. To the south the zone is completely



**LEGEND**

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- 8 gray & buff weathering Dolomite & limestone
- 2 orange weathering, platy, gray, green Dolomite, slate, minor phyllite & quartzite.
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Geology based on G.S.C. Paper 62-7  
**"A" Claims Geology**

MAYO M.D. N.T.S. 1062-7  
 Scale 1" = 1/2 mile Oct. 1975

MAP. 15-1962

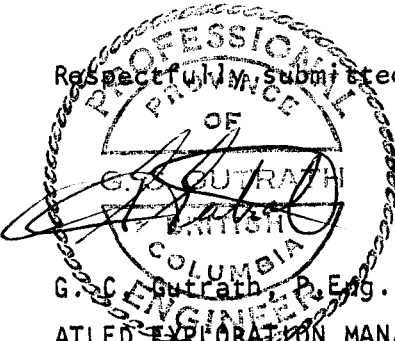
obscured by talus . The zone strikes south 80° east, dips at 27° to the south and has a true width of 5.5 feet.

The mineralized zone consists of interbanded galena, sphalerite, chalcopyrite, pyrite and pyrrhotite in a tremolite skarn zone. Massive sulphides bands up to 5 inches wide are interbanded with bands from .5 to 1.5 feet wide weakly mineralized skarn.

Numerous small occurrences of copper and lead mineralization were noted in the altered dolomites in the cirque area. From 1% to 3% pyrrhotite occurs in the gabbro.

SAMPLING

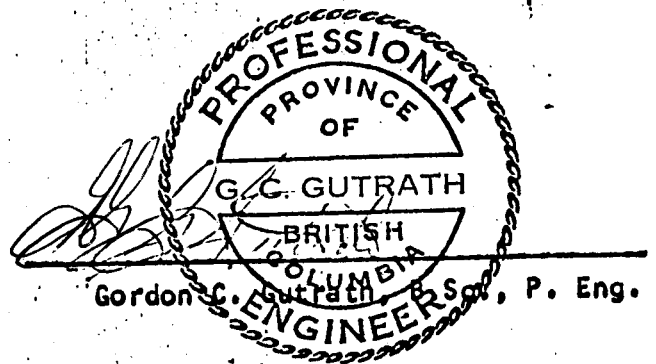
		Gold Oz/T	Silver Oz/T	Lead %	Zinc %	Copper %
A-1	Chip sample of main mineralized zone area over a true width of 5.5 feet.	0.003	1.57	7.13	2.61	0.40
A-2	Massive galena sphalerite, chalcopyrite and pyrrhotite from A-1 Section.	0.005	4.48	20.6	14.4	0.64

Respectfully submitted,  
  
G. C. Gutrath, P. Eng.,  
ATLED EXPLORATION MANAGEMENT LTD.

ENGINEER'S CERTIFICATE

I, GORDON C. GUTRATH, of 3636 Lakedale Avenue, in the Municipality of Burnaby, in the Province of British Columbia, DO HEREBY CERTIFY:-

1. That I am a consulting geologist with a business address of #420-475 Howe Street, Vancouver 1, B.C.
2. That I am a graduate of the University of British Columbia where I obtained my B.Sc. in geological science in 1960.
3. That I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers in the Province of British Columbia.
4. That I have practised my profession as a geologist for the past fourteen years, and
5. That I have no interest in the property with which this report is concerned, nor do I expect to receive any such interest. I have no interest in the securities of Dawson Range Mines Ltd. (N.P.L.)



DATED at the City of Vancouver, Province of British Columbia, this 28th day of August, 1974.





# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA  
 TELEPHONE: 985-0648  
 AREA CODE: 604

•ANALYTICAL CHEMISTS      •GEOCHEMISTS      •REGISTERED ASSAYERS

## CERTIFICATE OF ASSAY

TO: Atled Exploration Management Ltd.,  
 #420 - 475 Howe,  
 Vancouver, B.C.

CERTIFICATE NO. 23222  
 INVOICE NO. 12248  
 RECEIVED Aug. 16/74  
 ANALYSED Aug. 22/74

ATTN: *Cloutier - Braime Creek*

SAMPLE NO. :	% Copper	% Lead	% Zinc	Oz/Ton Silver	Oz/Ton Gold	Fire assay
24226	0.64	20.6	14.4	4.48	0.005	
24227	0.40	7.13	2.61	1.57	0.003	

**ENTERED**  
 AUG 23 1974

*R. L. Swait*