

GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE
MAV 1-42 MINERAL CLAIMS OF
MAVERICK MOUNTAIN RESOURCES LTD (NPL)
HOWARD PASS AREA, NAHANNI MINING DISTRICT,
NORTHWEST TERRITORIES

Situated 10 miles northeast of Summit Lake
and 160 miles north of Watson Lake, Y.T.

(105-I-6)

62° 25' N. Lat., 129° 04' W. Long.

Submitted by: D.P. Taylor, Geologist

Endorsed by: F. Holcapek, P. Eng., Geologist

Owner: Maverick Mountain Resources Ltd (NPL)

Work Conducted by: Agilis Engineering Ltd.

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

MAV 1-42 MINERAL CLAIM GROUP

of

MAVERICK MOUNTAIN RESOURCES LTD. (NPL)

HOWARD PASS, NORTHWEST TERRITORIES

November 7, 1973

Vancouver, B.C.

D.P. Taylor, M.Sc. D.I.C.

Geologist

TABLE OF CONTENTS

INTRODUCTION.....	1
LOCATION AND ACCESS.....	1
PHYSIOGRAPHY AND CLIMATE.....	2
PROPERTY.....	2
REGIONAL GEOLOGY.....	3
PROPERTY GEOLOGY.....	4
GEOCHEMICAL SURVEY.....	5
ANALYSIS.....	5
RESULTS.....	5
INTERPRETATION.....	6
CONCLUSIONS.....	6
RECOMMENDATIONS.....	7
CERTIFICATION.....	8

ILLUSTRATIONS

LOCATION MAP	1" = 80 mi; 4 mi.
FREQUENCY DISTRIBUTION GRAPHS (Lead and Zinc)	
GEOLOGY	1" = 400 feet
GEOCHEMICAL SURVEY	1" = 400 feet
Lead (ppm); values	
Zinc (ppm); values	
CLAIM MAP	1" = 2000 feet

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HOWARD PASS, NORTHWEST TERRITORIES

INTRODUCTION

The MAV mineral claim group of Maverick Mountain Resources Ltd. (NPL), are four miles southeast of Howard Pass, Northwest Territories, where Canex-Placer have announced the discovery of a major lead-zinc deposit.

During August of 1973 geological and geochemical soil and rock surveys were conducted on the property by personnel of Agilis Engineering Ltd. Geological mapping was performed by A.T. Turner, geologist. All work was done under the supervision of the writer.

LOCATION AND ACCESS

The MAV group is located in the Northwest Territories very close to the Yukon Border. The property is four miles southwest of Howard Pass and ten miles northeast of Summit Lake, Yukon Territory, which is 158 miles north of Watson Lake, Y.T.

The property is located:

62° 25' N; 129° 04' W

The winter tote road from the Cantung Road to Howard Pass lies immediately west of the property.

Access to the property at present is via fixed wing float or ski-equipped plane to Summit Lake, and by helicopter to the property. Canex-Placer has an airstrip at Howard Pass for wheel or ski-equipped aircraft.

PHYSIOGRAPHY AND CLIMATE

Most of the property lies on a small plateau east of Howard Pass. The topography is generally open and rolling with steep drop-offs to the north and east. Elevations on the property range from about 4,500 to 6,000 feet above sea level. All but the lower elevations are covered by open caribou moss and grass while below tree line (4,800 feet) occasionally dense stunted spruce and buckbrush are found.

The climate in this area is generally very cold in the winter with six to eight feet of snow. Summers are generally short and mild with the snow-free working season lasting from mid-June to late September.

PROPERTY

The MAV mineral claim group of Maverick Mountain Resources Ltd (NPL) consists of 42 claims staked and recorded in the Nahanni Mining District of the Northwest Territories.

The property is comprised of:

Claims

MAV 1-42

Record Numbers

A49551 - A49592

Field checks by the writer on certain posts confirm that the claims appear to be staked in accordance with the Mineral Act.

REGIONAL GEOLOGY

The regional geological map for this area is the Geological Survey of Canada Map 8-1967 Nahanni, 1 inch = 4 miles sheet.

The basement in the property region is Cambrian and Earlier vari-coloured red-brown weathering slates and phyllites with minor siltstone and quartzite.

This sequence is unconformably overlain by Upper Cambrian and (?) Ordovician limestone, dolomitic siltstone, and silty dolomite, with minor sandy dolomitic and quartzite at the base.

There is a regional unconformity in the Ordovician in the area occasionally containing upper Ordovician and Silurian black graptolitic shale, argillaceous limestone and minor black chert, cherty argillite and dolomite.

Uppermost in the regional sequence is Devonian and (?) Mississippian black shale and argillite, with minor sandstone siltstone and banded chert; often with massive chert pebble conglomerate.

Folding in the area is moderate to intense but is consistently northwesterly trending with strong associated cleavage.

PROPERTY GEOLOGY

Outcrop exposure on the MAV group is very limited. Mapable features are limited to two creeks on the property, and cliffs along the northern flank.

Apart from a small exposure of Cambrian and Earlier thin-bedded bluish grey shale containing barren quartz veins on the eastern flank of the claims, the entire outcrop exposure on the property is Upper Cambrian, thin bedded limestone to the north and calcareous shale to the south.

The distribution of Upper Cambrian outcrop allows a reliable conclusion to be drawn that this is the only sequence underlying the property, apart from the small section of older shale in the eastern flank.

Due to rock creep reliable dip readings could not be taken. However, both cleavage and bedding strikes are consistently between 125° - 135° . Cleavage dips are generally steeply northerly to vertical.

The property is believed to be, on regional consideration, located close to the axis of a major anticline which strikes at about 130° and extends into Howard Pass.

The limestone and calcareous shale units are stratigraphically just below the mineralized horizons found at Howard Pass. No mineralization was noted on the property apart from very minor occurrences of disseminated pyrite in limestone and Cambrian shale on the western part of the claims.

GEOCHEMICAL SURVEY

A total of 938 soil samples were collected on the MAV group. Sample lines were established on an east-west grid with lines 400 feet apart. Samples were taken at stations every 200 feet along the lines.

Samples were collected from 8 - 12 inches depth using mattocks and were placed in referenced kraft paper bags, the bags being provided by the laboratory. Soil development on the property is moderately good with a vaguely defined "B" horizon developed in most areas.

ANALYSIS

All samples were shipped to Core Laboratories Ltd., at 325 Howe Street, Vancouver, B.C.

A minus 80 mesh fraction was taken from each dried sample and digested for 2½ hours in hot nitric acid. Quantitative analysis was performed by atomic absorption methods.

RESULTS

The results for lead and zinc were tabulated and statistically analysed. Results for the 938 samples were plotted as cumulative frequency percent on arithmetic probability paper and the parameters derived are:

	<u>Range (ppm)</u>	<u>Background (ppm)</u>	<u>Anomalous (ppm)</u>
Zn	5 - 1200	100	200
Pb	<1- 150	27	37

Regionally the results are fairly low, generally speaking in the Howard Pass area anomalous values of about 350 ppm zinc

and 42-45 ppm lead are found.

INTERPRETATION

The geology mapped on the MAV mineral group is too low in the stratigraphy to be related to the mineralization of Canex-Placer's deposit in Howard Pass.

No distinctive anomalous areas have been outlined in a fairly comprehensive reconnaissance geochemical soil sample survey. There is a general rise for both lead and zinc in results obtained as one moves northward on the property, but values do not reach levels that can regionally be considered relevant. Anomalous values obtained tend to be dispersed and discontinuous.

CONCLUSIONS

The Upper Cambrian and earlier sequences exposed on the MAV group are stratigraphically too low to be of relative regional interest.

A comprehensive regional geochemical survey has produced little to be of encouragement in the search for economic lead-zinc mineralization. No targets for more detailed geochemical surveys have been defined.

RECOMMENDATIONS

Geological and geochemical surveys conducted in August, 1973 have failed to define any areas for follow-up work in the search for economic lead or zinc mineralization on the MAV group.

No further work can be recommended on the MAV group at this time.

Respectfully submitted,



D.P. Taylor, M.Sc., D.I.C.
Geologist

Endorsed by:

F. Holcabeck, P. Eng



Vancouver, B.C.
November 1, 1973

CERTIFICATION

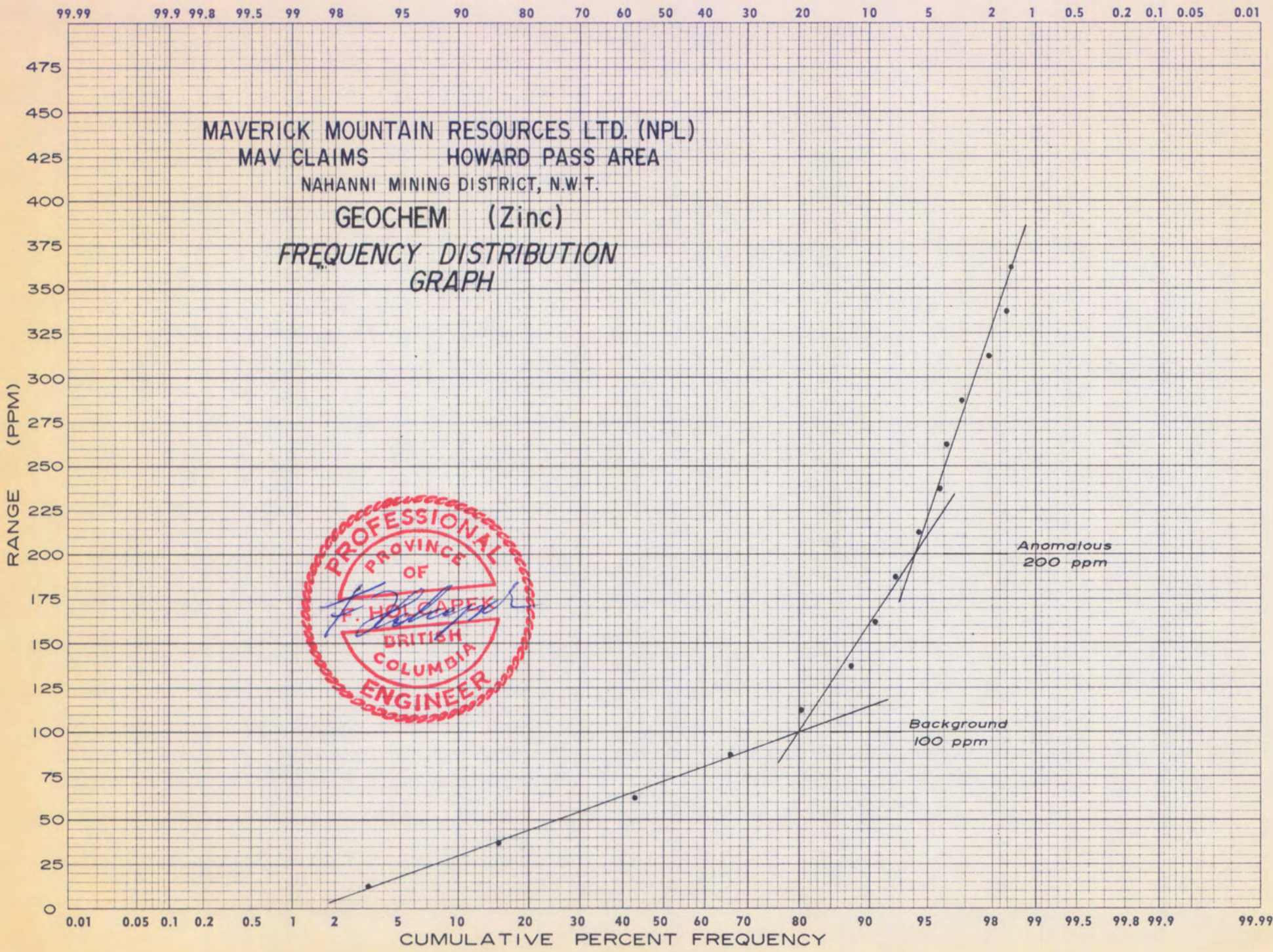
I, David Pelham Taylor, of Vancouver, British Columbia, do hereby certify that:

1. I am an exploration geologist, residing at 2097 West 6th Avenue, Vancouver, B.C.
2. I am a graduate of the Royal School of Mines London University, (M.Sc., D.I.C. 1971).
3. I have practised as an exploration geologist in British Columbia for five years.
4. I am registered as an Engineer-in-Training with The Association of Professional Engineers of the Province of British Columbia.
5. The work subject of this report was conducted by myself and a crew under my supervision.



D.P. Taylor, M.Sc., D.I.C.

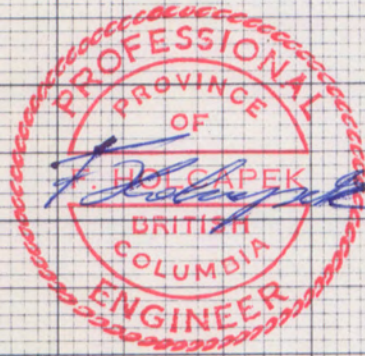
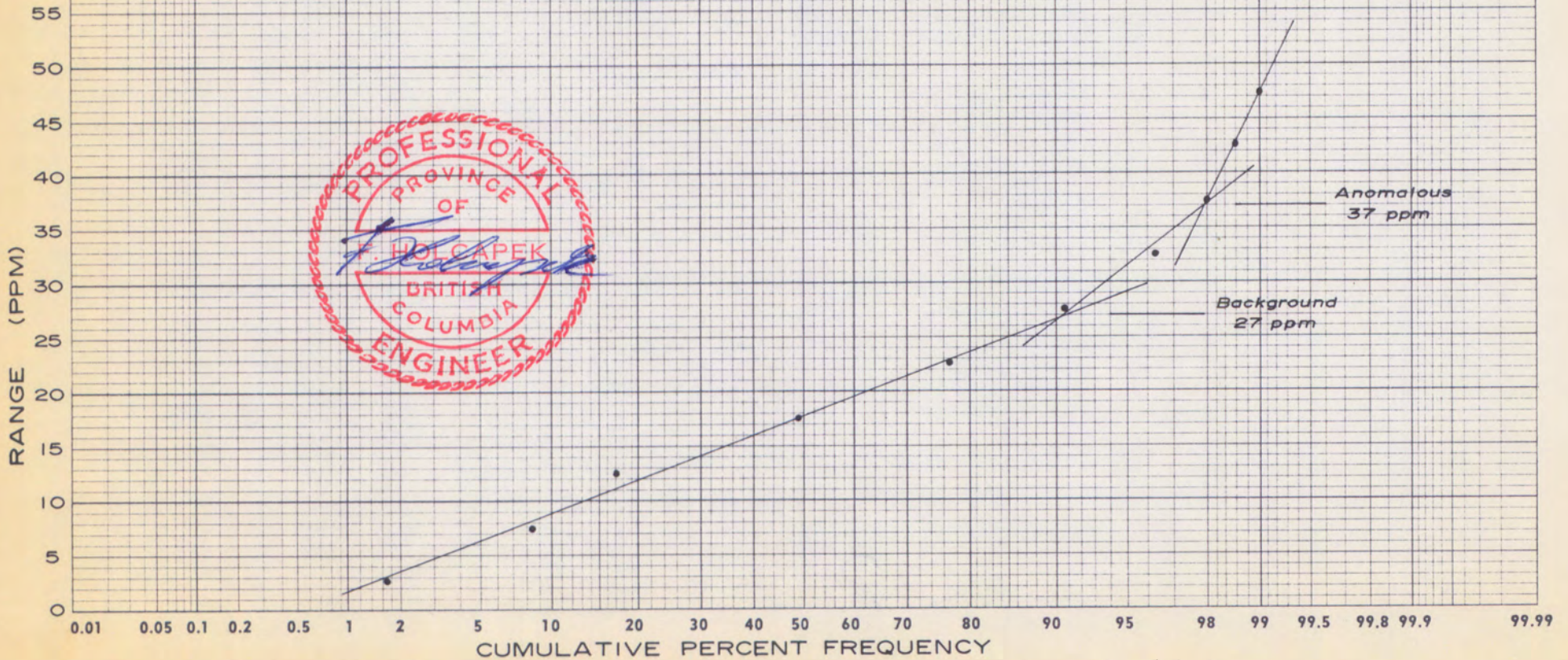
Vancouver, B.C.
November 7, 1973



99.99 99.9 99.8 99.5 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01

MAVERICK MOUNTAIN RESOURCES LTD. (NPL)
MAV CLAIMS HOWARD PASS AREA
NAHANNI MINING DISTRICT, N.W.T.

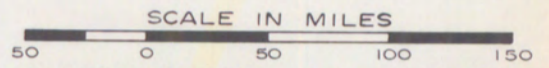
GEOCHEM (Lead)
FREQUENCY DISTRIBUTION
GRAPH



YUKON TERRITORY MAVERICK MOUNTAIN RESOURCES LTD. (NPL)

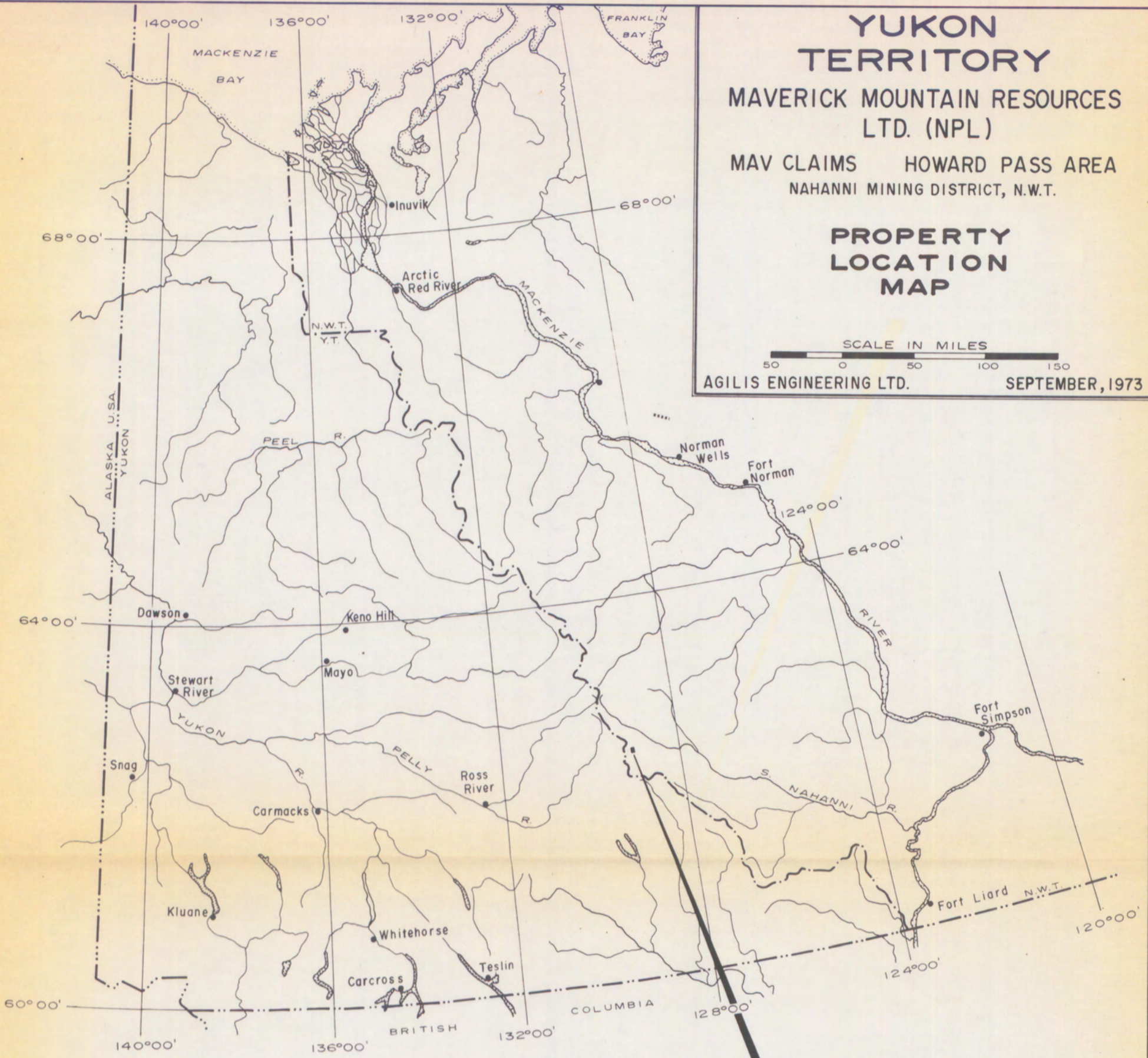
MAV CLAIMS HOWARD PASS AREA
NAHANNI MINING DISTRICT, N.W.T.

PROPERTY LOCATION MAP



AGILIS ENGINEERING LTD.

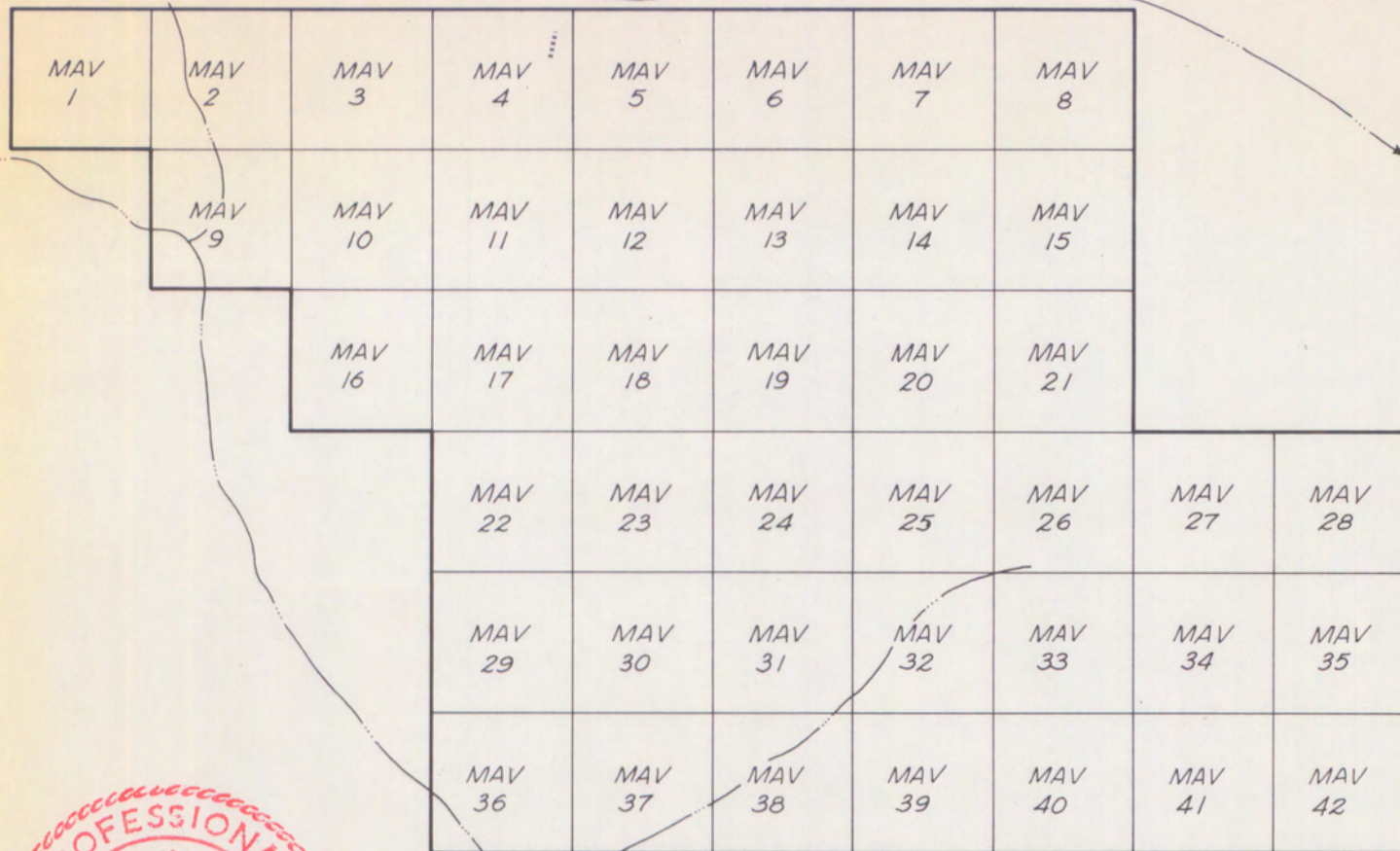
SEPTEMBER, 1973



**MAV
GROUP**



SCALE: 1" = 4 MI.



MAVERICK MOUNTAIN RESOURCES LTD. (NPL)

MAV CLAIMS HOWARD PASS AREA
 NAHANNI MINING DISTRICT, N.W.T.

CLAIM SKETCH

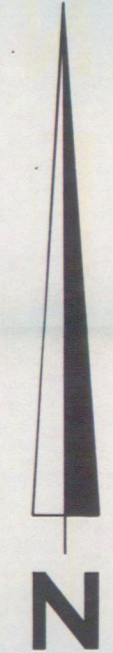
SCALE: 1" = 2000 ft.

AGILIS ENGINEERING LTD.

SEPTEMBER, 1973

88W 84W 80W 76W 72W 68W 64W 60W 56W 52W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W B.L. 0 4E 8E 12E 16E 20E 24E 28E 32E 36E 40E 44E

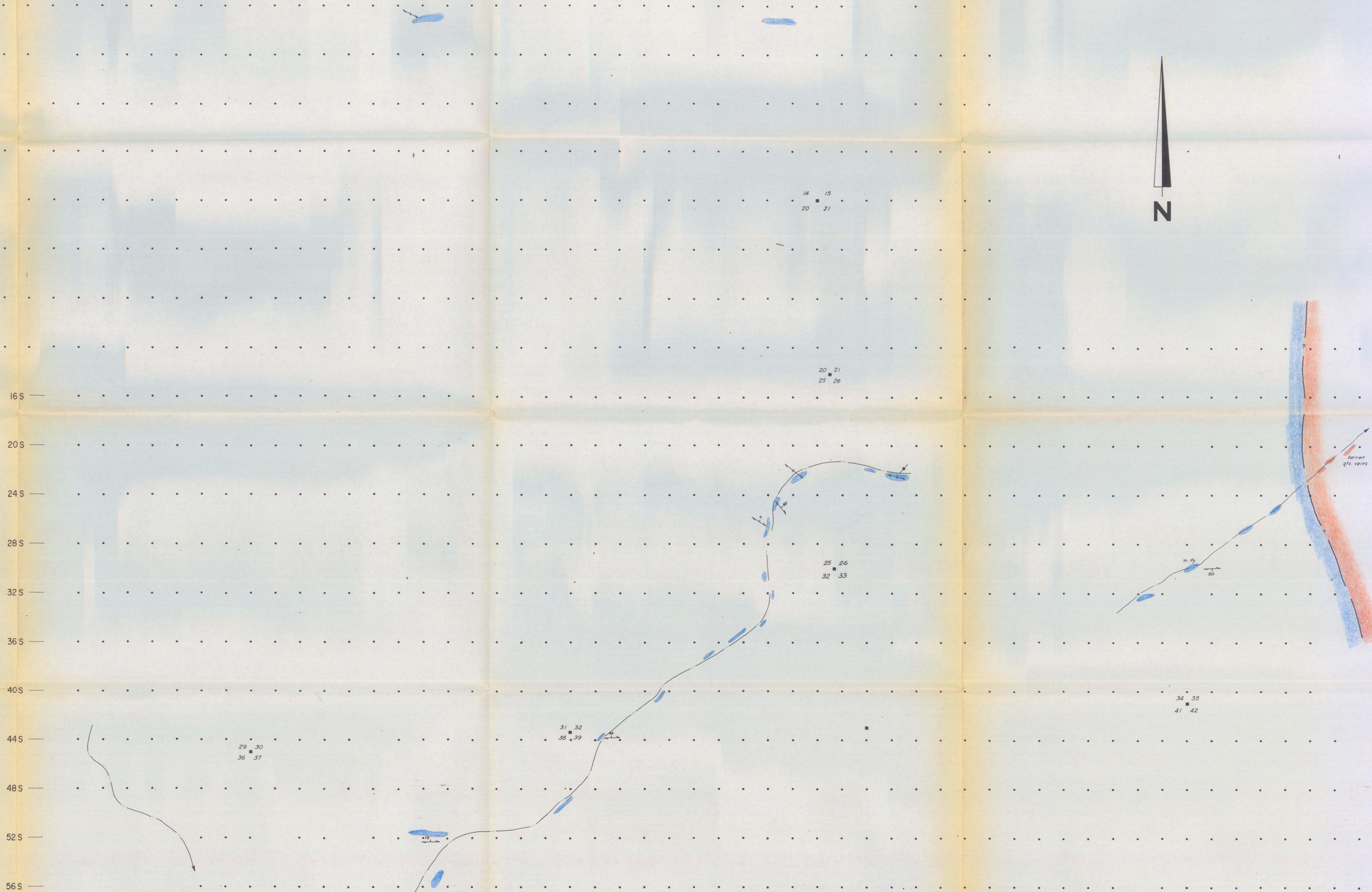
16N
12N
8N
4N
0
4S
8S
12S



LEGEND

- Claim post
- ~ Creek
- Outcrop
- ↔ Cleavage attitude, joint attitude
- ? Assumed contact
- Thin-bedded limestones and calcareous shales
- Thin-bedded bluish-grey shales

16S
20S
24S
28S
32S
36S
40S
44S
48S
52S
56S



MAVERICK MOUNTAIN
RESOURCES LTD. (NPL)

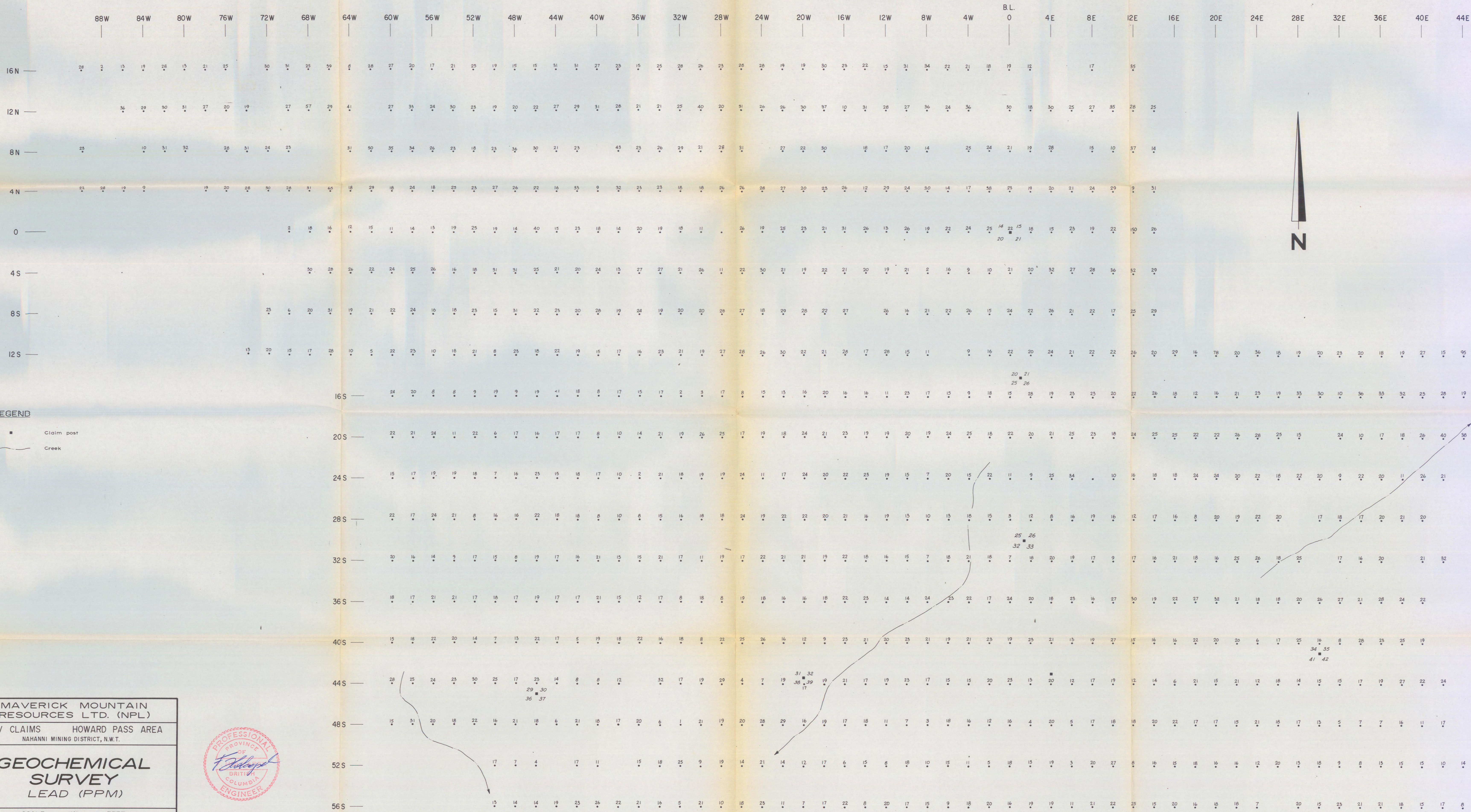
MAV CLAIMS HOWARD PASS AREA
NAHANNI MINING DISTRICT, N.W.T.

GEOLOGY

SCALE IN FEET
400 0 400 800 1200

AGILIS ENGINEERING LTD. SEPTEMBER, 1973





LEGEND

- Claim post
- ~ Creek

MAVERICK MOUNTAIN
RESOURCES LTD. (NPL)

MAV CLAIMS HOWARD PASS AREA
NAHANNI MINING DISTRICT, N.W.T.

**GEOCHEMICAL
SURVEY
LEAD (PPM)**

SCALE IN FEET
400 0 400 800 1200

AGILIS ENGINEERING LTD. SEPTEMBER, 1973



