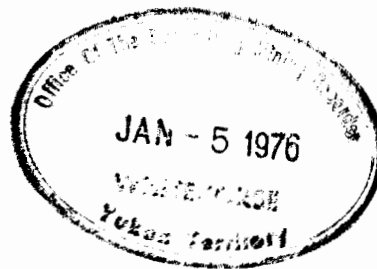
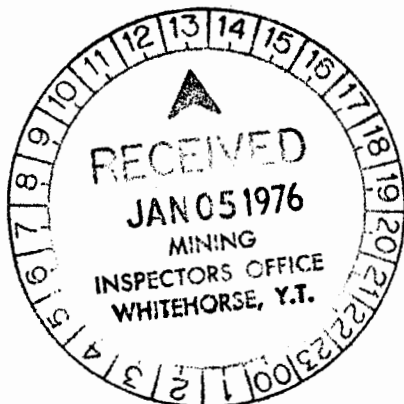


1975 Assessment Report



TITLE	Mount Profeit Pb-Zn Property (Doc 1-150 claims)
AUTHORS	A.C. Hitchins, J.B. Alsen, and G.M. Leary, P.Eng.
DATE	November 1975
COMMODITY	Pb-Zn
LOCATION-Area	Mackenzie Mountains, Yukon Territory
-Mining Division	Mayo
-Coordinates	Latitude 64°49'N Longitude 133°03'W
-NTS	106 C 14

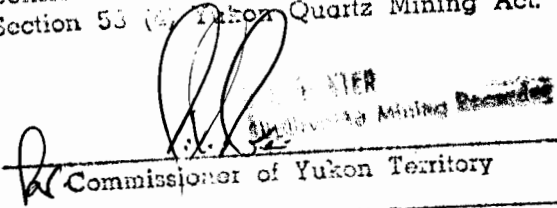
This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

\$12,000.00



Resident Geologist or
~~Resident Mining Engineer~~

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


Commissioner of Yukon Territory

AMAX EXPLORATION, INC.
Vancouver Office

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- V - Assay and Geochemical Data

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- 7 - Property Lithofacies Sketch-----After Page 10

SUMMARY

The Mount Profeit Property comprises 150 claims located northeast of Pinguicula Lake in the Mackenzie Mountains, Yukon Territory. Claims were staked to cover lead-zinc showings discovered during follow-up of drainage anomalies generated by the 1974 Yukon Pb-Zn Program.

The property is situated within the northern extremity of the Bonnet Plume carbonate mound. It is underlain by a gently easterly dipping sequence of Upper Hadrynian dolomites interbedded with minor shales and siltstones. Dolomite members thin and shale out to the north of the claim block.

Lead-zinc mineralization occurs in vuggy stromatolitic dolomite units over a continuous strike length of greater than 1,500 feet at the main showing (#1) (Figure 5). Galena and lesser sphalerite occur in (1) veins, breccias, and fractures within a transgressive shear and sheet-jointed zone and (2) as widespread vug fillings. A 21 foot sample across a shear zone (#1) assayed 3.48% Pb, 6.60% Zn and 2.00 oz Ag/ton. The lead to zinc ratio is generally 2:1. A high grade pod directly to the east of the main showing assayed 47.2% Pb, 16.0% Zn, and 17.2 oz Ag/ton over 31 feet.

Geological mapping and prospecting of the property at a scale of 1 inch to 500 feet and sporadic geochemical sampling was accomplished during late July and August of the 1975 field season.

DISCUSSION AND RECOMMENDATIONS

The geology and structure of the Mount Profeit area appear favourable for Mississippi Valley type lead-zinc mineralization. The following features are present on the property: (a) a sandstone-conglomerate sequence above an unconformity and beneath a jointed, locally vuggy, shallow water dolomite, and (b) vertical and lateral facies change from dolomite to a shale-siltstone sequence.

The presence of a possible fluid migration route within the conglomerate and unconformity and the presence of extensive mineralization near the dolomite to shale facies change warrants drill testing. Northwest-trending angled drill holes are recommended to explore the shear zone on claims 26 and 42 (Figure 6) for zones of wider and higher grade mineralization.

Drill holes collared near the northwest flowing creek which passes through the eastern portion of claims 42 and 44 (Figure 6) would test for extensions of the #1 and #2 showings towards the lower contact of Hd¹m and also explore the contact between Hd¹m and the overlying Rapitan shales. An initial five thousand feet of drilling in 8 - 10 holes is sufficient to investigate mineralization extensions and controls.

INTRODUCTION

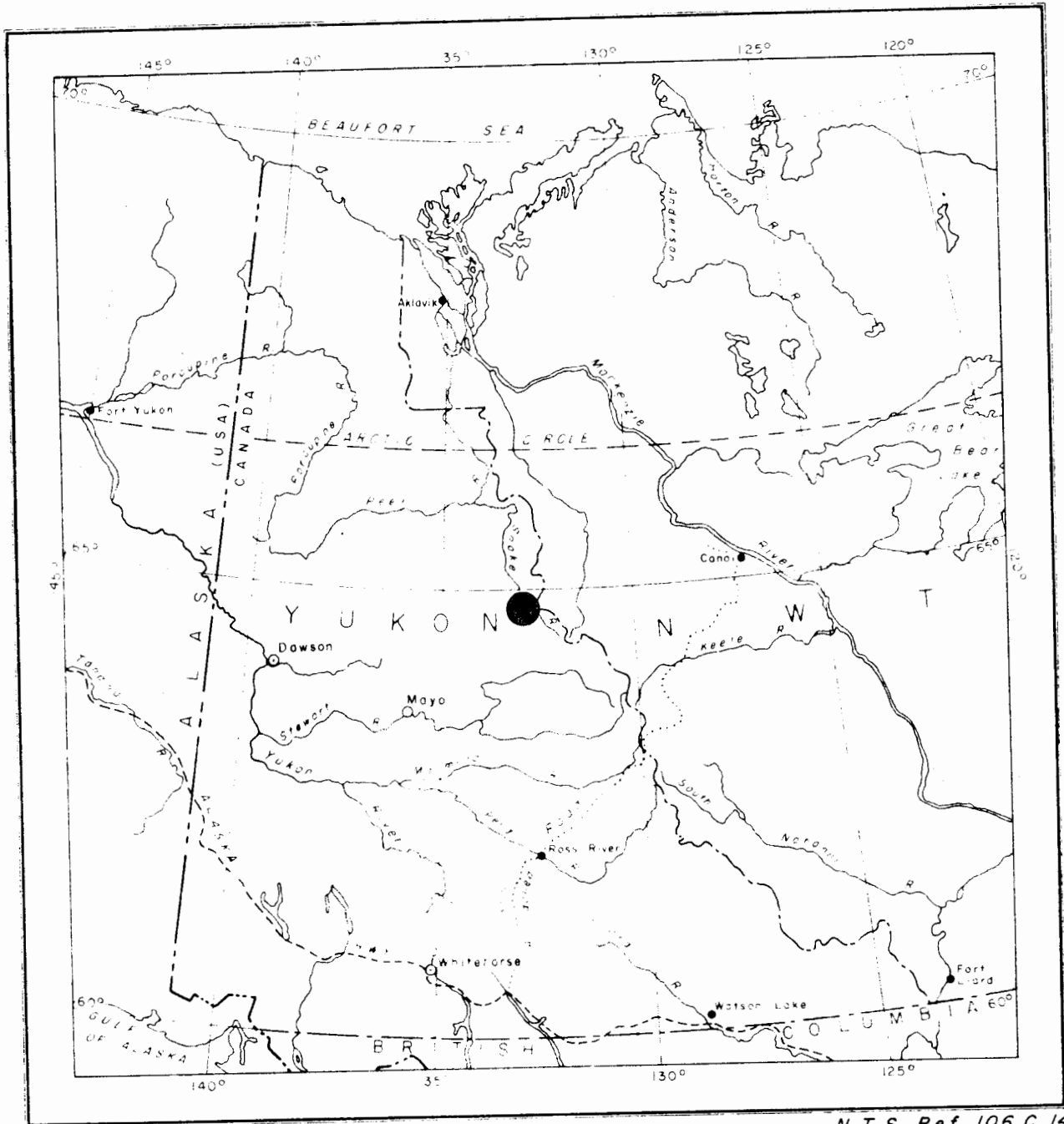
The Mount Profeit Property is located fifteen miles northeast of Pinguicula Lake in the Bonnet Plume Range of the Mackenzie Mountains, Y.T. (Figure 1). The property comprises a northwest-southeast elongate block of 150 claims covering the top and steep flanks of a rugged northwest trending ridge system (Figure 2). Relief within the claim block is 3,500 feet with the highest peaks reaching 7,400 feet. Arctic willow and stunted alpine fir are found in the lower valley bottoms. The entire property is above tree line. Arctic grasses, moss, and a variety of low leafy plants are found on valley sides up to 5,800 feet. Large masses of snow and ice remained in north facing cirques during the summers of 1974 and 1975.

Access is best afforded by fixed wing aircraft from Mayo, Y.T. to Pinguicula Lake, thence by helicopter to the property.

The Doc 1-150 claims were staked on July 19, 20 and 31, 1974 to cover lead-zinc occurrences located in an Upper Hadrynian dolomite unit. The showings were discovered by prospecting lead silt anomalies located during the 1974 Yukon Pb-Zn Program.

Work carried out in 1974 consisted of preliminary mapping and sampling (see Report by G.M. Leary - April 1975).

A four man field party completed mapping and prospecting the Mount Profeit property in August 1975. Field results were plotted on orthographic air photographs and a topographic map, both at a scale of 1" = 500'. Rock exposure is excellent on the ridge tops and flanks; cirque bottoms, lower valley walls and stream beds are overburden covered.



N. T. S. Ref 106 C 14

AMAX EXPLORATION INC.

MOUNT PROFEIT PROPERTY
MAYO MINING DISTRICT — YUKON

LOCATION MAP

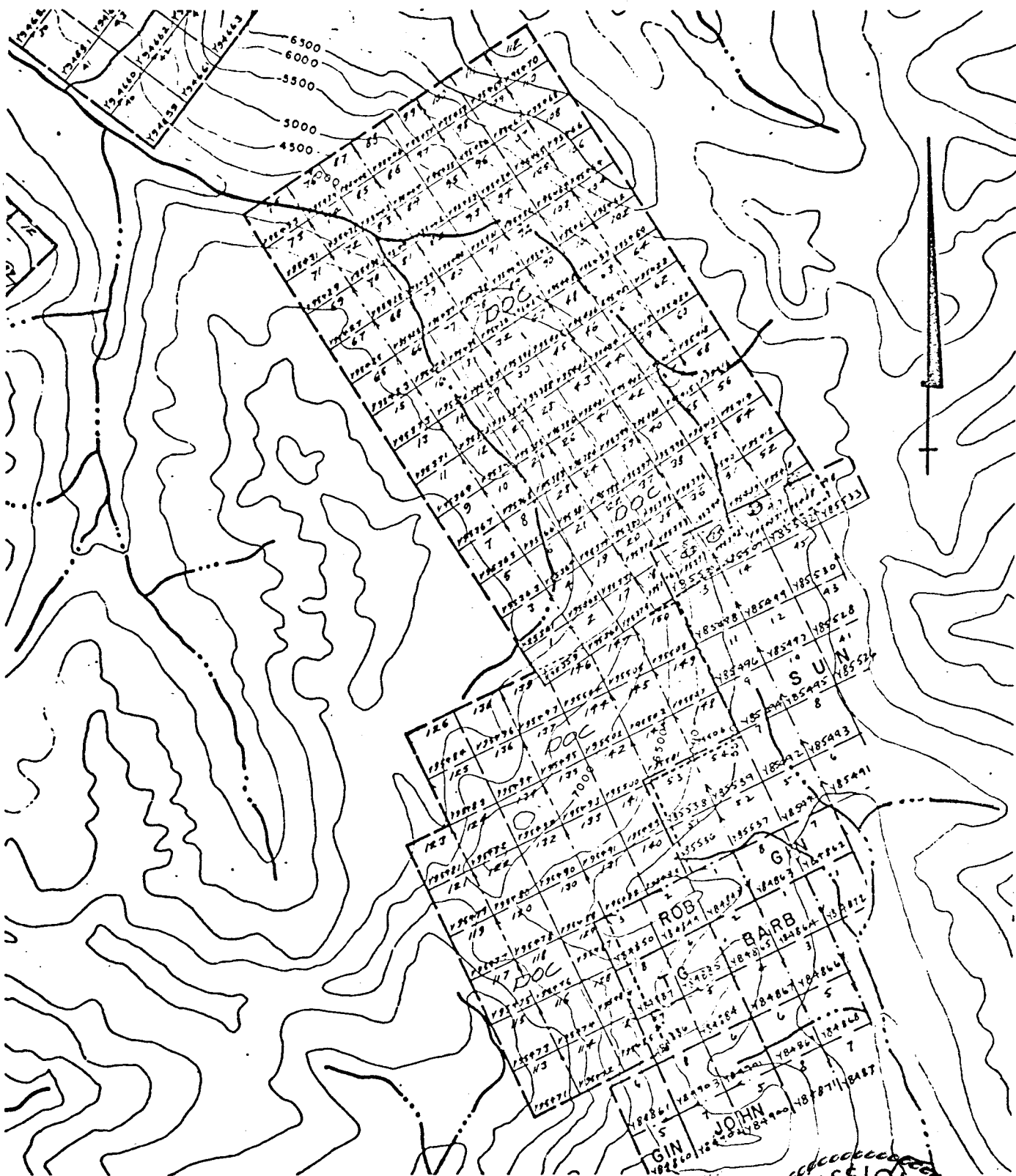
SCALE 1" = 120 MILES



Vancouver -

H.P.

FIG. 1

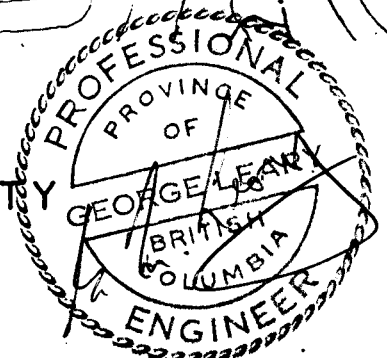


AMAX EXPLORATION INC.

MOUNT PROFEIT PROPERTY
MAYO MINING DISTRICT — YUKON

CLAIM MAP

SCALE 1 : 50,000



CLAIM DATA

<u>Claim Name</u>	<u>Grant Number</u>	<u>Anniversary Date</u>
DOC 1-150 inclusive	Y95359-Y95508 inclusive	August 9, 1975

Mayo Mining Division

Enough assessment work was performed to renew 38 claims for one year and 82 claims for two years.

REGIONAL GEOLOGY

The Mount Profeit Property is underlain by lead-zinc occurrences hosted in a Hadrynian dolomite (Unit Hd¹), as shown on Map 106C of Open Files 205 and 206. Unit Hd¹ is part of the Bonnet Plume carbonate mound that developed intermittently from Hadrynian to Lower Cambrian time (Figure 3). The mound is constructed of three carbonate build-ups, a lower Hadrynian unit Hc; a middle Hadrynian unit Hd₁ and a Lower Cambrian unit Ec, each up to 2,000 feet thick. The lower and middle carbonate build-ups are characterized by either domal and columnar or planar stromatolites. Units Hd and Ec are commonly vuggy, pisolitic and/or sandy.

The mound is northwesterly elongate in plan and measures 30 by 50 miles. To the west and southeast of the mound, facies changes indicate a deeper water shale environment. Shallow water clastics including red, purple, brown and green siltstones and shales, ripple marked silty and shaly dolomites and quartzites are interbedded with the mound carbonates and are generally the dominant facies to the northeast. Facies relationships within the mound are illustrated in Figure 4.

Regional Laramide deformation has produced northwest trending open folds cut by numerous parallel reverse, normal, and thrust faults.

Lead-zinc mineralization is regionally associated with each of the three main carbonate units of the Bonnet Plume mound. Lead-zinc occurrences within the Hd and Ec carbonate units are characterized by breccia, vug, fracture and vein fillings in vuggy sucrose dolomite, whereas, those within the Hc carbonate unit are associated with shear-related fracture and vein stockworks in massive and platy dolomite.

PROPERTY GEOLOGY

Property geology at a scale of 1" to 500 feet is illustrated on Figure 5. A stratigraphic column for the property is shown on Figure 4.

The Mount Profeit property occupies part of the northern extremity of the Bonnet Plume mound where Upper Hadrynian dolomite (Unit Hd¹) changes facies northwesterly into dominantly basinal clastics of the Rapitan Group (Hr). Rock units strike north-northwest and dip 20⁰- 35⁰E on the property. The Hadrynian dolomite and shale unconformably overlies older Hadrynian thin bedded dolomite, siltstones and shale (Unit Hsc).

Several faults with small displacement occur in units Hsc and Hd¹, Northeasterly trending sheet jointing and local shearing occur in the area of the main showing. Small folds are locally present beneath an unconformity in unit Hsc.

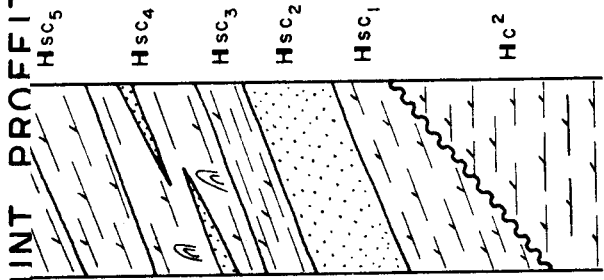
The property stratigraphy includes twenty-eight mappable units as shown in Figure 4. They are discussed below in ascending order.

Hc² consists of light to medium grey weathering massive fine grained thick bedded dolomite, with minor limestone beds. Locally the dolomite is sucrose and vuggy.

Unit Hc² is exposed adjacent to the northwest corner of the claim block where it is in fault contact with Hsc.

LITHOLOG

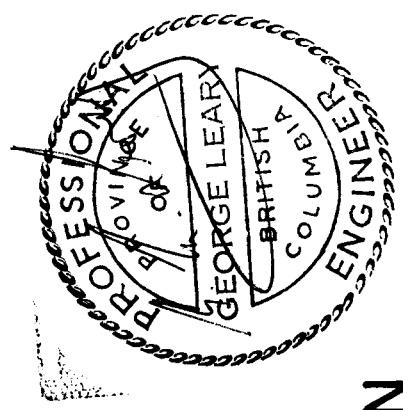
BONNET PLUME MOUND MOUNT PROFFIT PROPERTY



BONNET PLUME MOUND

- Dolomite* [Symbol: horizontal lines]
- Limestone* [Symbol: horizontal lines with small circles]
- Sandstone, siltstone, quartzite* [Symbol: diagonal lines]
- Shale* [Symbol: horizontal lines]
- Conglomerate* [Symbol: dotted pattern]
- Stromatolitic* [Symbol: horizontal lines with small circles]
- Chert nodules* [Symbol: irregular shapes]
- Conformable contact* [Symbol: horizontal line]
- Fault contact* [Symbol: wavy line]
- Facies change* [Symbol: horizontal line with a small step]
- Angular unconformity* [Symbol: horizontal line with a jagged, irregular boundary]

SCALE 1" = 500'



AMAX EXPLORATION INC.

MOUNT PROFFIT PROPERTY
MAYO MINING DISTRICT - YUKON

STRATIGRAPHIC COLUMN

Vancouver

Hsq consists of brown shale, siltstone and minor conglomerate and orange weathering platy dolomite exposed in the southwest portion of the property where they are in fault contact with Hsc. Mud cracks and graded bedding are prominent throughout the shale-siltstone portion of this unit.

Hsc comprises a sequence of interbedded brown-black slates and gritty limestone grading upward into tan to rusty weathering platy dolomites, crystalline grey-black limestone, brown to black shales and siltstones and rusty to clean quartzites which can be divided into ten mappable members, Hsc 1-10. For a more detailed discussion of these members see Appendix IV.

Since contact relations between some of the members are not always visible, erosional contacts may exist. The contact between Hsc and the overlying conglomerate (Hcgl) is an angular unconformity with considerable erosional relief.

Hcgl is a tan to rusty brown, locally maroon weathering, very coarse to fine grained, basal clastic assemblage up to 600 feet thick. Generally this unit fines upward from a coarse unsorted conglomerate Hcgl₁ at the base to the bedded coarse sandstones Hcgl₂ and maroon siltstones Hcgl₃. A more detailed description is given in Appendix IV.

Hcgl₁ unconformably overlies quartzites and dolomites of unit Hsc. Where Hcgl overlies Hsc₁₀ the entire Hcgl unit thins and the coarse conglomerate component vanishes, indicating that the resistant quartzite of Hsc₁₀ formed paleo-hills during Hcgl deposition. Hcgl forms an undulating lens that tails out on the property. Twelve miles south of the claim group another similar lens of Hcgl is present (G.S.C. Open File 206). This unit may be a conglomerate or a coarse channel deposit which would account for its limited lateral

extent and rapid changes in thickness.

Mineralization within Hcgl₁ is scattered and minor. Pyrite concretions are scattered vertically and horizontally throughout the matrix of Hcgl. Rare quartzite boulders contain fine disseminated chalcopyrite and possibly tetrahedrite (up to 8000 ppm Cu). Trace lead and zinc are present in Hcgl on claim 10 where a prominent mineralized fracture zone crosses the conglomerate and overlying dolomite.

Hd¹ consists of a variety of dolomites readily divisible into three members. These include a lower member (Hd¹_l) of light grey weathering, mottled, vuggy, stromatolitic dolomite; a middle member (Hd¹_m) of light yellow weathering, featureless, dolomite and an upper member (Hd¹_u) of massive dark grey to orange weathering stromatolitic dolomite.

Hd¹_l dolomite varies considerably along strike. At the north end of the central ridge (claims 25 - 31) the base of the unit is predominantly a dark grey, medium grained dolomite host with a light cream to tan, sucrose, dolomite mottles up to one inch across. Higher up in the section, the mottles increase in size, are recessive weathering and occasionally contain small cores of galena and sphalerite.

Further south, near the centre of the ridge, the mottled dolomite grades into a light to medium grey, sucrose dolomite in which domal stromatolite horizons are still recognizable. Patches of vuggy, sucrose dolomite contain galena as vug fillings (i.e. showing #4).

Near the bottom of the cliff on claims 2 and 146 concentrically laminated spheres of probably algal origin from 1/8 to 24 inches in diameter form the base of Hd¹_l.

The dolomite containing these spheres changes southward into medium bedded, grey micritic dolomite, characterized by abundant fenestrate textures, intercalated with pisolite and intraclast beds. Generally the micritic beds contain numerous open irregular vugs, elongated parallel to the bedding plane and lined with light grey to blue fine grained silica. Crystalline dolomite occasionally fills the vugs; sphalerite is rarely present.

Textures indicate that Hd^1_1 changed from a supratidal-intertidal environment in the south to a slightly deeper water environment dominated by domal stromatolites. The development of sucrose dolomite in the northern portion of the ridge has destroyed most of the primary textures.

The contact between Hd^1_1 and the overlying yellow, tan weathering, dolomite of Hd^1_m appears to be gradational although scattered outcrops of a three foot thick pisolitic bed locally mark the contact.

Hd^1_m consists of a light yellow tan weathering, fine grained, generally featureless light grey dolomite. Thickness varies up to about 800 feet on claim 144 and gradually decreases towards the shale out on claims 90 - 92. Finely sucrose, vuggy sections that weather a pink-tan colour occur in the upper portion of the unit.

As the contact with the overlying Hd^1_u dolomite is approached Hd^1_m becomes sandy and slightly pyritic. The contact is marked by a shaly quartz pebble conglomerate with minor light grey dolomite fragments. The clasts of quartz are generally well rounded. Where present the conglomerate is up to three feet thick.

Hd¹_u consists of a dark grey to light orange weathering, fine grained, massive stromatolitic dolomite with faint bedding plane markings. Scattered vugs in the lower portion are commonly up to inch across. Thickness varies from greater than 200 feet in the south but gradually decreases in thickness to the north where it shales out into the Rapitan Group (Hr).

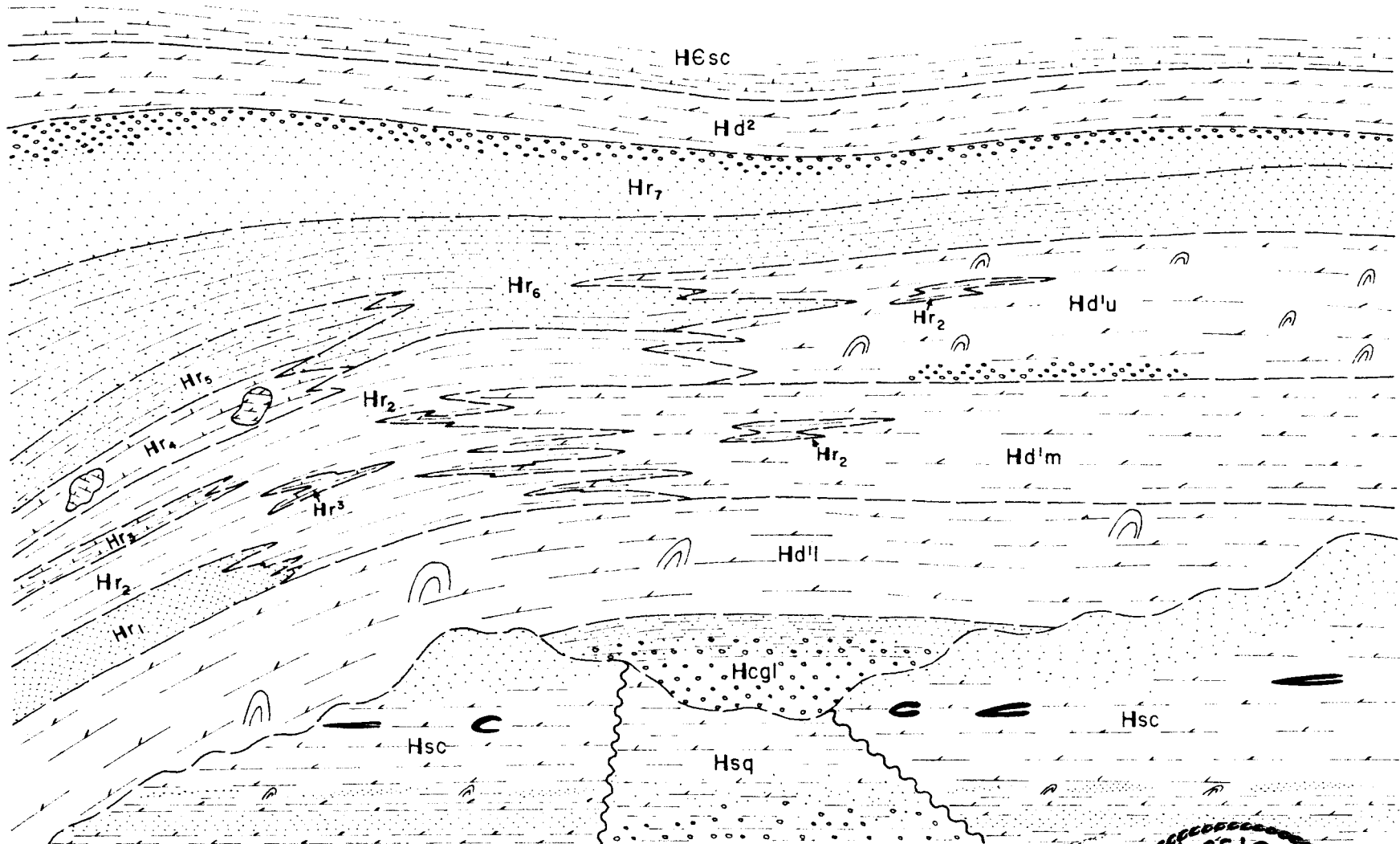
Hr (Rapitan Group) consists of a sequence of shales, quartzite, and carbonate rocks which are readily divisible into seven mappable members. These rocks have a total thickness of greater than 3000 feet. A carbonate conglomerate, within the shales, is thought to be a debris flow from the Hd¹ carbonate mound.

Hd² is a yellow-tan, weathering light grey, fine grained, dolomite occasionally thin bedded. A narrow black shale band Hd²_s is restricted to one exposure on claim 16. Although contacts with over and underlying rocks are not exposed they appear to be conformable and sharp.

Hc_{sc} (Sheepbed Formation) consists of a lower light to dark grey weathering, dark grey laminated, thin bedded, micritic limestone with interbedded dark grey, shaly limestone and an overlying section of dark grey to black recessive shales and minor siltstones. Locally, up to 5% pyrite is present as nodules and disseminations within the limestone.

The Figure 7 sketch illustrates facies changes and contact relations on the property.

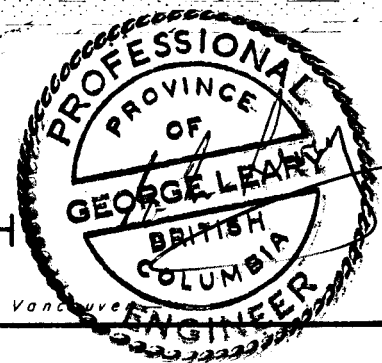
The angular unconformity beneath the Hcgl conglomerate may change to a disconformity off of the property. Coarse conglomerate of limited areal extent fills small basins within the less resistant lithologies of Hsc. A channel deposit or fanglomerate best explains observed textures within the conglomerate.



AMAX EXPLORATION INC.

MOUNT PROFEIT PROPERTY
MAYO MINING DISTRICT - YUKON

PROPERTY LITHOFACIES SKETCH
SECTION LOOKING EAST



H P

N. T. S. Ref 106 C 14
FIG. 7

Above the Hsc and Hcgl units a thick assemblage of Hd¹ dolomite grades laterally into deeper water shale and siltstone of the Rapitan Formation. The wide variation in textures within the dolomite suggest that both reef and bark reef environments existed during the development of the Hd¹ carbonate mound. At the north end of the central ridge (claims 27 to 32) dolomitization destroyed original textures and produced a vuggy sucrose dolomite. Local erosion and addition of clastic material took place prior to development of the stromatolitic unit Hd¹_u.

Within the recessive weathering shales and siltstones of the Rapitan Formation a chaotic carbonate conglomerate up to 200 feet thick forms light grey weathering cliffs. Deposition by a debris flow from disintegration of the reef is suggested as an origin for this unit.

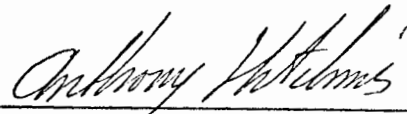
The reef dolomite and deeper water shales are overlain by a clean quartzite and micritic dolomite of uniform thickness.

MINERALIZATION

Thirty-four lead-zinc occurrences were located within the claim block in 1975 and are summarized in the following table. Location of the occurrences and assay data are given on Figure 5 and Figure 6 respectively. Only the first eight showings listed in the table are considered significant.

Sulphides occur as massive pods (showing #2), breccia and fracture fillings in shear and sheet jointed zones (#1 and #3), irregular replacement patches (#5 and #7), vug fillings or linings (#4) and stratabound bedding plane and fracture fillings (#8). All of the occurrences, except #8 and #26 are hosted in Hd¹ dolomites, generally within 1,000 feet of the Hd¹_l - Hd¹_m contact. Although a large part of the sulphides

occur in fractures, shears and breccia zones and thus appear to be structurally related, the clustering of occurrences near the $Hd^1_1 - Hd^1_m$ contact demonstrates stratigraphic control.



A.C. Hitchins



J.B. Alsen

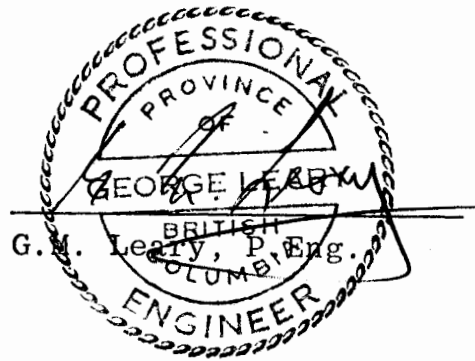


TABLE OF MINERAL OCCURRENCES

NO.	LOCATION	MINERALIZATION	HOST ROCK	DESCRIPTION
1	DOC 26	Galena sphalerite pyrite marcasite (smithsonite hydrozincite)	Hd ¹ ₁	Hosted in vuggy upper portion of Hd ¹ ₁ on east facing dip slope; dominantly galena with lesser amounts of pale green and red sphalerite that is commonly leached and altered to smithsonite in varying degrees. Mode: breccia and fracture fillings along narrow (are 14' wide) shear zones. Assays (>1700' in length) of 2.24% Pb, 0.91% Zn, 0.62 oz/T Ag.
2	DOC 42	Galena sphalerite tetrahedrite (hydrozincite malachite)	Hd ¹ ₁	Massive (31x27') pod of galena and red-green sphalerite with minor tetrahedrite. Assays yielded: 31' @ 16.8% Zn, 47.2% Pb, 17.2 oz/T Ag; 27' @ 9.6% Zn, 52.0% Pb, 20.8 oz/T Ag.
3	DOC 26	Galena pyrite marcasite	Hd ¹ ₁	Coarse grained galena with minor sphalerite, tetrahedrite and marcasite in a dolomite breccia that is exposed in an area 4x30'. Breccia contacts with massive dolomite vary from sharp to crackled. Breccia grades 30% Pb and 4 oz/T Ag over 15'.
4	DOC 25	Galena	Hd ¹ ₁	Galena and minor tetrahedrite fill vugs in a vuggy, sucrose Hd ¹ ₁ dolomite over an area 15x10' by <10' thick, est. <5% Pb.
5	DOC 23	Sphalerite (galena)	Hd ¹ ₁	Green ZnS, PbS and quartz occur as pods along an E-W fracture zone. Splotches and disseminations of red sphalerite replace grey, fine grained to stromatolitic dolomite over strike length of 15' and up to 3' wide. A grab sample of replacement sphalerite graded 24% Zn.
6	South of DOC 19/ 20	Sphalerite (galena)	Hd ¹ _m	Red and green coarsely, crystalline sphalerite, galena, pyrite and minor tetrahedrite with crystalline dolomite fill fractures in a finely sucrose, dense dolomite. Mineralization over an area 2x25' ZnS>>PbS.
7	DOC 18	Galena sphalerite	Hd ¹ _m	Red sphalerite and galena, as splotches and disseminations have replaced yellowish, Hd ¹ _m dolomite. Mode of occurrence is very similar to that of #5. ZnS>PbS.

8	DOC 82	Sphalerite (hydrozincite) ± pyrite	Hsc ₃	Consists of a sphalerite bearing strata-bound zone in a shaly dolomite bed overlain by shale within the upper part of Hsc. Sphalerite occurs along cross fractures and bedding planes, closely associated with thin interbeds of dolomite-arenite. A 3' channel sample across the zone assayed 4.00% Zn strike length >12'; dip length unknown.
9	DOC 80	Sphalerite, galena, minor tetrahedrite (malachite)	Hd ¹ ₁	Sphalerite pods with scattered galena blebs in a coarse white crystalline dolospar within the upper portion of Hd ¹ ₁ .
10	DOC 82/91	Marcasite galena minor sphalerite (smithsonite hydrozincite)	Hd ¹ ₁	Irregular ribbons of marcasite enveloped by thin rinds of galena with minor sphalerite within a coarse white crystalline dolospar of the lower portion of Hd ¹ ₁ .
11	DOC 46	Galena sphalerite (hydrozincite)	Hd ¹ _m	Widespread vug fillings of galena and sphalerite in upper portion of Hdm.
12	DOC 46	Sphalerite (hydrozincite)	Hd ¹ _m	Fracture and vug fillings of pale green sphalerite in upper portion of Hd ¹ _m .
13	DOC 42	Galena sphalerite	Hd ¹ _m	Similar occurrence as #11 and #12.
14	DOC 33	Galena (PbO)	Hd ¹ _m	Scattered blebs and fracture fillings in massive sandy dolomite within the lower portion of Hd ¹ _u .
15	DOC 33	Tetrahedrite	Hd ¹ _m	Similar occurrence as #14.
16	DOC 150	Sphalerite (smithsonite hydrozincite)	Hd ¹ _m	Fracture fillings in Unit Hd ¹ _u believed to be a shear zone similar to occurrence #1.
17	DOC 150	Tetrahedrite (malachite)	Hd ¹ _m	Similar to occurrence #16.
18	DOC 150	Sphalerite (hydrozincite)	Hd ¹ _m	Similar to occurrence #16 & 17 and all (16,17,18) are believed to be the same or parallel shear zone.
19	DOC 18	Galena	Hd ¹ _m	Minor galena and marcasite occur in a small fault zone.
20	DOC 18	Sphalerite	Hd ¹ _m	Float occurrence of green sphalerite filling vugs.

21	DOC 18	Sphalerite	Hd ¹ _m	Yellow-green sphalerite with quartz and red dolomite fill vugs.
22	DOC 17	Hydrozincite	Hd ¹ ₁	Hydrozincite occurs along fractures near the upper contact of Hd ¹ ₁ .
23	DOC 23	Sphalerite	Hd ¹ ₁	Sphalerite and minor galena fill fractures, small crackle breccias and vugs over a strike distance of 30' near top of cliffs.
24	DOC 23	Sphalerite	Hd ¹ ₁	Green sphalerite with calcite and dolomite fill scattered vugs, fractures and pods up to 8" wide over a vertical distance of 60'.
25	DOC 27	Sphalerite (Hydrozincite)	Hd ¹ ₁	Pale red and green sphalerite and trace galena in widespread vug and fracture fillings in Hd ¹ ₁ .
26	DOC 10	Sphalerite (hydrozincite)	Hcgl ₂	Minor red sphalerite in voids between clasts in sand-pebble conglomerate.
27	DOC 10	Sphalerite trace galena	Hd ¹ ₁	Float occurrence believed to be related to occurrence #4 or #24. Vug fillings in Hd ¹ ₁ .
28	DOC 147	Sphalerite Tetrahedrite (hydrozincite malachite)	Hd ¹ _u	Red to brown sphalerite along laminations in upper sandy dolomite. Tetrahedrite smears on fractures and portion of Hd ¹ _u .
29	DOC 137	Sphalerite	Hd ¹ ₁	Green sphalerite partially fills 2" vugs in boulders of fenestrate textured dolomite.
30	DOC 141	Galena tetrahedrite sphalerite (malachite)	Hd ¹ ₁	Scattered vug fillings and fracture smears in a gossanous outcrop of massive vuggy dolomite in Hd ¹ ₁ (much quartz present).
31	DOC 35	Galena	Hd ¹ _m	Galena with minor marcasite and tetrahedrite occur in quartz veins and coat fractures in a pisolitic grey dolomite. Mineralization exposed over 12x15'.
32	DOC 26	Galena	Hd ¹ _m	Small galena filled fractures. Probably an extension of showing #3.
33	DOC 33	Sphalerite tetrahedrite	Hd ¹ _m	Minor red and green sphalerite and tetrahedrite occurs in a small fracture zone with quartz and dolomite.
34	DOC 33	Sphalerite tetrahedrite	Hd ¹ _m	Green sphalerite and tetrahedrite fill vugs in a narrow ravine. Mineralized vugs in float are present for 200' above showing.

REFERENCES

LEARY, G.M.

1975: 1974 Report on the Mount Profeit Pb-Zn Property
AMAX Company Report.

APPENDIX I-STATEMENT OF COSTS

Period of Work July 14 - 20, 1975
July 28 - August 9, 1975

Summary of Work Geological and Geochemical Survey

Personnel

A.C. Hitchins, Geologist, 1998 Cedar Crescent, Vancouver, B.C.	20 days @ \$58.08/day	\$1,161.60
J.B. Alsen, Geologist, 3555 West 2nd Avenue, Vancouver, B.C.	20 days @ \$39.78/day	795.60
L.V. Penco, Sr. Asst., 6570 Raleigh Street, Vancouver, B.C.	20 days @ \$32.55/day	651.00
J.K. Mortensen, Sr. Asst., 1208 W 8th Street, Vancouver, B.C.	20 days @ \$30.75/day	615.00
H.W. Sellmer Sr. Staff Geologist, 601-535 Thurlow St., Vancouver, B.C.	2 days @ \$130.36/day	260.72

Room & Board

82 man days @ \$17.50/day 1,435.00

Transportation

Helicopters - Bell 206B	8.5 hrs. @ \$300/hour and fuel	2,586.80
Hughes 500	5.3 hrs. @ \$250/hour	1,325.00
Aircraft - Float Plane Otter	576 mi @ \$1.55/mi (50% of Invoice #6686 & 10273)	892.80
Turbo Beaver	220 mi @ \$1.35/mi	297.00
CP Air	(20% of Invoice #90226, 091246-49, 103807-8.)	390.40
Northward Air		92.40
Fuel		431.85

Geochemistry

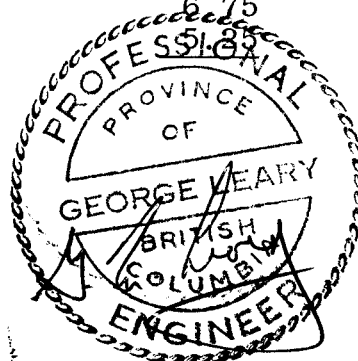
28 Geochemical Analyses (Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn, Pb)	@ \$3.20	89.60
19 Sample Preparation	@ .10	1.90
9 Rock Preparation	@ .75	6.75
7 pH Analyses	@ .75	5.25
		103.50

Assays

20 Assays (Pb, Zn, Cu, Ag) @ \$17.50 350.00

Orthographic Maps

1,667.25



Report Preparation

Writing 733.33
Drafting, Typing and Reproduction 400.00

SUB TOTAL \$14,189.25

Post Anniversary Date August 9, 1975

Period of Work August 10-17, 1975
August 21-22, 1975

Summary of Work Detailed Mapping

Personnel

A.C. Hitchins, Geologist, 1998 Cedar Crescent,
Vancouver, B.C. 3 days @ \$58.08/day 174.24
J.B. Alsen, Geologist, 3555 W 2nd Avenue,
Vancouver, B.C. 10 days @ \$39.78/day 397.80
L.V. Penco, Sr. Asst., 6570 Raleigh Street,
Vancouver, B.C. 3 days @ \$32.55/day 97.65
J.K. Mortensen, Sr. Asst., 1208 W 8th Street,
Vancouver, B.C. 10 days @ \$30.75/day 307.50
G.M. Leary, P.Eng. 601-535 Thurlow Street,
Vancouver, B.C. 2 days @ \$94.62/day 189.24
H.M. Meixner, Geologist, 675 West 32nd Ave.,
Vancouver, B.C. 2 days @ \$68.64 137.28

Room and Board

30 man days @ \$17.50/day 525.00

Transportation

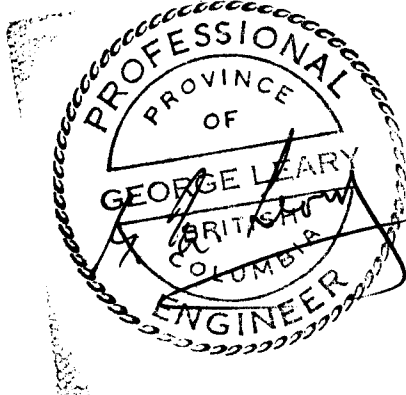
Helicopter - Bell 206B 9.6 hrs. @ \$300/hour and fuel 2,971.65
Float Plane - Otter 262 miles @ \$1.55/mile 406.10
- Beaver 220 miles @ \$1.35/mile 297.00

Report Preparation

Writing 366.67
Drafting, Typing and Reproduction 250.00

SUB TOTAL \$6,120.13

TOTAL \$20,309.38
=====



We wish the above work to be applied to the following claims

1 Year - Doc 1, 2, 4, 6, 8, 10, 12, 14, 16, 49-52 incl.,
66, 68, 70, 72, 77, 79, 81, 83-86 incl., 114,
116, 118, 120, 122, 124, 130, 132, 134-137
incl., 139 and 146.

2 Years - Doc 17-48 incl., 53-64 incl., 78, 80, 82, 89-98
incl., 101-110 incl., 127-129 incl., 131,
133, 140-145 incl., and 147-150 incl.

Contractor's Invoices for Period July 14 - 20, 1975 and
July 28 - August 9, 1975

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To:						Date <i>July 29/75</i>		
						P.O.		
Pilot		Base		Cash		Cheque	Charge	
A/C Type <i>206B</i>		CF		Area				

From	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate <i>2.0</i>	Hours at \$ <i>300.00</i>		\$ <i>600.00</i>
Contract Rate	Hours at \$		
Fuel Charge <i>23 gals @ 80¢</i>			<i>19.40</i>
Pilot Expenses			
Other			
I personally guarantee payment of this charter.		TOTAL CHGE.	<i>619.40</i>
Authorized by:			

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

1. _____	7. _____
2. _____	8. _____
3. _____	9. _____
4. _____	10. _____
5. _____	11. _____
6. _____	12. _____

Nº 1071

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027

2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7203

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Lbs. cargo	Miles flown	Class of flying
	<input type="text"/>	<input type="text"/>	<input type="text"/>

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To: _____ Date July 27/

						P.O.	
Pilot		Base		Cash	Cheque	Charge	
A/C Type <u>206B</u>		CF		Area			

From _____ To (1) _____
 To (2) _____ To (3) _____
 To (4) _____ To (5) _____
 To (6) _____ To (7) _____
 To (8) _____ To (9) _____
 To (10) _____ To (11) _____

Charter Rate <u>3.6</u>	Hours at \$ <u>300.00</u>		\$ <u>1080</u>	-
Contract Rate	Hours at \$			
Fuel Charge				
Pilot Expenses				
Other				
I personally guarantee payment of this charter. Authorized by: _____			TOTAL CHGE.	<u>1080</u> -

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

No 1072

- | | |
|----------|-----------|
| 1. _____ | 7. _____ |
| 2. _____ | 8. _____ |
| 3. _____ | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027

2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Lbs. cargo	Miles flown	Class of flying
	<input type="text"/>	<input type="text"/>	<input type="text"/>

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To:					Date <u>2002 7</u> <u>10/15/02</u>		
					P.O.		
Pilot		Base		Cash		Cheque	Charge
A/C Type <u>206B</u>		CF		Area			

From	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate <u>2.9</u>	Hours at \$ <u>300.00</u>	\$ <u>970</u>	<u>00</u>
Contract Rate	Hours at \$		
Fuel Charge	<u>23 gals @ 80¢</u>	<u>18</u>	<u>40</u>
Pilot Expenses			
Other			
I personally guarantee payment of this charter.		TOTAL CHGE.	<u>998 40</u>
Authorized by:			

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

Nº 1077

- | | |
|----|-----|
| 1. | 7. |
| 2. | 8. |
| 3. | 9. |
| 4. | 10. |
| 5. | 11. |
| 6. | 12. |

MAIN BASE
 P.O. Box 368
 Prince George, B.C.
 Phone 963-9622
 Telex 047-8027

2 BASE
 P.O. Box 280
 Fort St. James, B.C.
 Phone 996-7203

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Lbs. cargo	Miles flown	Class of flying
	<input type="text"/>	<input type="text"/>	<input type="text"/>



TRANSWEST HELICOPTERS (1965) LTD.

2792 NORLAND AVENUE, NORTH BURNABY, B.C. V5B 3A6 CANADA PHONE: AREA (604) 291-7578

Amax Explorations Inc.
601- 535 Thurlow St.,
Vancouver, B.C.

AMAX

REC-150
AUG 20 1975
DATE: August 18, 1975

INVOICE NO.: 200 OFFICE

Flite report 4075
July 20th

2.0 hrs. @250.00

Sgt. Gray Hithis

.....\$ 500.00

cust fuel.

ADD & EXT CORRECT			DATE
PROJECT	ACCOUNT CLASS	SUB CLASS	AMOUNT
671	8634		500.00

Helicopter Hughes 500
CF-BUH
M Hofius, Pilot
Area 9.0

4589 AUG 21 '75

TOTAL

CUSTOMER'S SIGNATURE



TRANSWEST HELICOPTERS (1965) LTD.

2792 NORLAND AVENUE, NORTH BURNABY, B.C. V5B 3A6 CANADA PHONE: AREA (604) 291-7578

Amax Explorations
601- 535 Thurlow St
Vancouver, B.C.

DATE: July 30th, 1975

INVOICE NO.: 265

Flight report 4066
July 14th,

3.3 hrs @ 250 00

.....\$825.00 ✓

AM
JUL 31

ADD-EXT-CORRECT			DATE
APPROVED			
PROJECT	ACCOUNT CLASS	SUB CLASS	AMOUNT
671	8684		825.00

4513 AUG 7 '75

Helicopter Hughes 500
CF-BUH
M Hofius
Area 9.0



TRANS NORTH TURBO AIR (1971) LTD.
 BOX 4338, WHITEHORSE, YUKON
 TELEPHONE (403) 668-5111 • TELEX 036-8-290

ACCOUNT NUMBER	60
10273	
INVOICE DATE	217/016/75
A/C TYPE	DHC-3
AIRCRAFT REGISTRATION C	FSUB
FLIGHT DATE	24 06 75
PURCHASE ORDER NO. 671	

AMAX Northwest Mining
 CHARTERER
 60 JUL 25 1975 Thurlow St
 BILLING ADDRESS
 Vancouver B.C.
 FUEL & OIL TINTA TUST. IN FUEL USED IN OFFICE 4.6 MA FROM

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS. FREIGHT LBS.
MA:O				
TO PINGVICULA LK	110			GROC & FUEL
N. PALMER LK	136			-
PINGVICULA LK	136			CAMP MOVE
MA	110			EMPTY'S

ADD & EXT. CORRECT			
APPROVED		DATE	
PROJECT	ACCOUNT CLASS	SUB CLASS	AMOUNT
	671 8684		762.60

50% applicable to hls Prefect

Doc

SUB	G.L.	AMOUNT
313156612		762.60

4479	JUL	9'75
492	1.55	762.60

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	e	/HR.
FUEL:	e	/GAL.
FUEL:	e	/GAL.
MEALS & LODGING		
OTHER		
OTHER		

[Signature]
 CHARTERER'S SIGNATURE
[Signature]
 PILOT'S SIGNATURE
 C. TINGLEY
 ENGINEER'S NAME

TOTAL \$ 762.60

INVOICE

V
L
O

TRANS NORTH TURBO AIR (1971) LTD.
 BOX 4338, WHITEHORSE, YUKON

TELEPHONE (403) 668-2177 • TELEX 036-8-290

AMAX Exploration, Inc.
~~AMAX NORTHWEST MINING~~

CHARTERER
 601-535 THURLOW STREET
 BILLING ADDRESS
 VANCOUVER, BC

FUEL & OIL-X TMTA FUEL USED HRS.-GALS. FROM
 TMTA CUST. 20 MA.

ACCOUNT NUMBER	60
6686	
INVOICE DATE	05/05/75
A/C TYPE	DHC-3
AIRCRAFT REGISTRATION C	FSURB
FLIGHT DATE	020575
PURCHASE ORDER NO.	

FROM	MILES	HOURS	ZONE	FREIGHT LBS.	NO. OF PASS. - REMARKS
MAYO	110				FUEL HAUL
PINGUICULA LK	110				
MAYO					

50% to applicable U.H. Profit

Project Number	Group Code	Activity Code	Account Class	Sub Class	AMOUNT

SUB	G.L.	AMOUNT
335602		341.00

	220	1.55	341.00		✓

TERMS: ONE PERCENT INTEREST PER MONTH WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME /HR.

APPROVED _____ DATE _____

PROJECT	ACCOUNT CLASS	HRS. LOGGING	AMOUNT
	671 8684	OTHER	341.00
		OTHER	

CHARTERER'S SIGNATURE _____
 PILOT'S SIGNATURE _____
LINGLEY
 ENGINEER'S NAME

404366 MAY 15 75

TOTAL \$ 341.00 ✓

INVOICE

Tommy Hitchmish



TRANS NORTH TURBO AIR (1971) LTD.
 BOX 4338, WHITEHORSE, YUKON

TELEPHONE (403) 668-5111 • TELEX 036-8-290

ACCOUNT NUMBER	60
11099	
INVOICE DATE	215/07/75
A/C TYPE	DHC-2T
AIRCRAFT REGISTRATION	FV PV
FLIGHT DATE	220775
PURCHASE ORDER NO.	671

AMAX Northwest Mining
 CHARTERER
 601 535 Thurlow
 BILLING ADDRESS
 Vancouver

FUEL & OIL - TNTA	CUST.	TNTA FUEL USED	HR	PER GAL	1975 FROM
✓		JP-4	1.8		MA

FROM	MAYO	MILES	HOURS	2035	REMARKS - NO. OF PASS - FREIGHT LBS.
TO	PENGUICULA UK.	110			4/45's
	MAYO	110			1 PASS. & CAMP EQUIP.

ADD EXT CORRECT

APPROVED *[Signature]* DATE *[Date]*

PROJECT	ACCOUNT CLASS	SUB CLASS	AMOUNT
671	8684		297.00

5/17/75 4517 2207 '75

SUB	G.L.	AMOUNT
313146	012	297.00

220 ✓ @ 1.35 297.00 ✓

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.
FUEL:	@	/GAL.
FUEL:	@	/GAL.
OTHER		
OTHER		

[Signature]
 CHARTERER'S SIGNATURE

[Signature]
 PILOT'S SIGNATURE

[Signature]
 ENGINEER'S NAME

TOTAL \$ 297.00 '75

INVOICE

A HICHINS

VANCOUVER

Fit / Class Vol / Classe
Date
15 MAY 27 0700

USED

Flight Coupon Good for Passage
Coupon de vol Valable pour transport

WHITEHORSE

For Airline Use Only / Réserve au transporteur
Ticket Designator
Form & Serial Number
1 018 4080091249 0

4449 JUN 24 '75

010270

Baggage
Uncl'd Wt Pcs n. enr
Excess Excedent
Total
106.00

Ticket and Baggage
Subject to Conditions
Contract on Page 2

Billet de passage et bagages
de bagages Soumis aux
conditions de la page 4

Issued by
Emission par

CP Air

Origin / Origine

018 4100 902

Name of Passenger
HICHINS / K

Issued in Exchange for
Emission contre

Date
19 SEP 75

Passenger
Coupon du
Passager

C.P.A.
71-9 90
WHITEHORSE
AP-1M

Not Good For Passage / Non valable pour transport

From - De
WHITEHORSE

Y 2 CP
PS

016 Y

19 SEP

1000 A

OK

071

31

To / A
VANCOUVER

Bgs chkd
Uncl'd
Bgs enr
n. enr

Form and Serial Number

CASH

OCT 2 Rec'd

Rate Price
CAD 101.00

8.00

CAD 109.00

MR J MORTENSEN

VANCOUVER

Fit / Class Vol / Classe
Date
15 MAY 27 0700

USED

Flight Coupon Good for Passage
Coupon de vol Valable pour transport

WHITEHORSE

For Airline Use Only / Réserve au transporteur
Ticket Designator
Form & Serial Number
1 018 4080091247 5

4449 JUN 24 '75

010270

Baggage
Uncl'd Wt Pcs n. enr
Excess Excedent
Total
106.00

J. MORTENSEN

WHITEHORSE

Fit / Class Vol / Classe
Date
16 MAY 28/75 1000

USED

Flight Coupon Good for Passage
Coupon de vol Valable pour transport

VANCOUVER

For Airline Use Only / Réserve au transporteur
Ticket Designator
Form & Serial Number
1 018 4080103808 1


Non Refundable / Non remboursable

010270

50


Baggage
Uncl'd Wt Pcs n. enr
Excess Excedent
Total
CAD 107

3966 SEP 2 1975

Passenger Name / Nom du passager en capitales L. PENCO		Signature 		Flight Coupon Good for Passage Coupon de vol Valable pour transport	
From / De WHITEHORSE		To / À VANCOUVER		Class / Classe 16 Y	
Baggage / Bagages Excess / Excédent		Ticket Despatch Form & Serial Number		Non Refundable / Non remboursable	
Total 10.00		1 018 4080103807 0		48 C10270	


U-Ticket Issued By / Émis par **CP Air** | 018 40801091248

YOUR OWN TICKET / À REMPLIR **PASSAGER COMPLETES WHITE AREA ONLY**
LE PASSAGER NE REMPLIT QUE LA CASE EN BLANC

Passenger Name / Nom du passager en capitales MR. L. PENCO		Signature 		Flight Coupon Good for Passage Coupon de vol Valable pour transport	
From / De VANCOUVER		To / À WHITEHORSE		Class / Classe 15	
Date / Date MAY 27		Time / Heure 0700		Ticket Despatch Form & Serial Number 774449 JUN 24 '75	
Total 138.00		1 018 4080091248 6		C10270	

U-Ticket Issued By / Émis par **CP Air** | 018 40801091248

YOUR OWN TICKET / À REMPLIR **PASSAGER COMPLETES WHITE AREA ONLY**
LE PASSAGER NE REMPLIT QUE LA CASE EN BLANC

Passenger Name / Nom du passager en capitales MR J ALSEN		Signature 		Flight Coupon Good for Passage Coupon de vol Valable pour transport	
From / De VANCOUVER		To / À WHITEHORSE		Class / Classe 15	
Date / Date MAY 27		Time / Heure 0700		Ticket Despatch Form & Serial Number 774449 JUN 24 '75	
Total 106.00		1 018 4080091246 4		C10270	

THE BRITISH YUKON NAVIGATION CO., LTD.
 P.O. Box 4070 510 W. Hastings St.
 Whitehorse, Yukon Vancouver 2, B.C.

SHIPPED TO

TRUCK NO.

TRIP NO.

23 1975

SOLD TO (PRINT)

Anna (670)

3964

CUSTOMER'S ORDER OR REQ. NO.

03964

ADDRESS

VANCOUVER OFFICE

WP. NO.

LOC.

DELIVERED BY

W. Hutton

PRODUCTS DELIVERED

SIZE OF PACKAGE

CODE

QUANTITY

PRICE

AMOUNT

F.P. 4

3 1/2 gal

135

815

191.50

671	-	-	8684	112.73
671	-	-	8689	75.00
				187.73

TAX (SPECIFY)

135 GALS. @ 1.7

(2.70)

PRODUCTS RECEIVED

RECEIVED PAYMENT

BY *Starting Expedition*

DRUM CHARGES

3 - 25.00 = 75.00

DRUM CREDITS

APPROVED

CHECKED

EXCH.

TOTAL

TERMS - NET CASH (NO DISCOUNT)

TOTAL

269.22

CREDIT MEMO

NO.

29849

STATION

Whitehorse

DATE

Sept 30 75

SHIPPED TO

TRUCK NO.

TRIP NO.

SOLD TO (PRINT)

Anna

OCT

3964

CUSTOMER'S ORDER OR REQ. NO.

ADDRESS

VANCOUVER OFFICE

WP. NO.

LOC.

DELIVERED BY

PRODUCTS DELIVERED

SIZE OF PACKAGE

CODE

QUANTITY

PRICE

AMOUNT

10.00 gal Oct 9 32180 ad Aug 28

Oil heads 2 Pkt
Oil 1/2 head 2 Pkt

135 815

191.50

135 815

110.00

APPROVED

TAX

GALS @

DRUM CHARGES

CREDIT MEMO

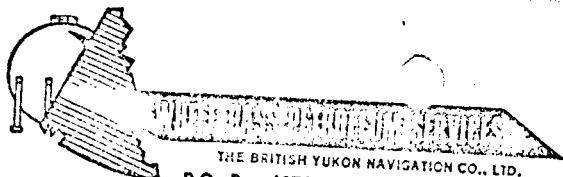
BY

Project

81.49

FORM PET 033 03M 73

P 859 10M 9 71



THE BRITISH YUKON NAVIGATION CO., LTD.
 P.O. Box 4070 510 W. Hastings St.
 Whitehorse, Yukon Vancouver 2, B.C.

THIS IS YOUR INVOICE

DELIVERY INVOICE NO. 932480

STATION **MAY Mayo** DATE **July 20 1975**
 SHIPPED TO **OFFICE** TRUCK NO. **3964** TRIP NO. **(671)**

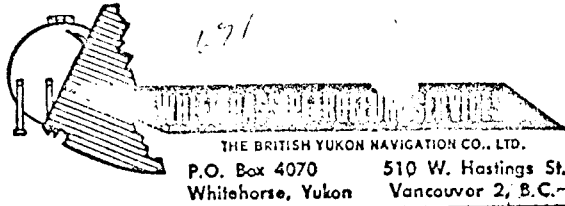
SOLD TO (PRINT) **Asmax**
 ADDRESS **OFFICE** WP. NO. **1** LOC. **1** CUSTOMER'S ORDER OR REQ. NO. **03964**
 DELIVERED BY **D. Sutton**

FORM PET 855 G5M 73

PRODUCTS DELIVERED	SIZE OF PACKAGE	QUANTITY	PRICE	AMOUNT																								
J.P. 4	3 Drs	135.	7.59	1024.																								
hauling to float deck	3 Drs	1.00		3.00																								
<table border="1"> <tr> <td>APPROVED</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td><i>[Date]</i></td> </tr> </table>					APPROVED	DATE	<i>[Signature]</i>	<i>[Date]</i>																				
APPROVED	DATE																											
<i>[Signature]</i>	<i>[Date]</i>																											
<table border="1"> <tr> <th>Product Number</th> <th>Group Code</th> <th>Activity Code</th> <th>Account Class</th> <th>Class</th> <th>Amount</th> </tr> <tr> <td>871</td> <td></td> <td></td> <td>8689</td> <td></td> <td>75.00</td> </tr> <tr> <td>671</td> <td></td> <td></td> <td>8684</td> <td></td> <td>108.17</td> </tr> <tr> <td colspan="5">RECEIVED PAYMENT</td> <td>183.17</td> </tr> </table>					Product Number	Group Code	Activity Code	Account Class	Class	Amount	871			8689		75.00	671			8684		108.17	RECEIVED PAYMENT					183.17
Product Number	Group Code	Activity Code	Account Class	Class	Amount																							
871			8689		75.00																							
671			8684		108.17																							
RECEIVED PAYMENT					183.17																							
<table border="1"> <tr> <td>TAX (SPECIFY)</td> <td>135 GALS. @ 02</td> <td>270.</td> </tr> <tr> <td>PRODUCTS RECEIVED</td> <td>3</td> <td>25.00</td> </tr> <tr> <td>BY <i>[Signature]</i></td> <td></td> <td>75.00</td> </tr> </table>					TAX (SPECIFY)	135 GALS. @ 02	270.	PRODUCTS RECEIVED	3	25.00	BY <i>[Signature]</i>		75.00															
TAX (SPECIFY)	135 GALS. @ 02	270.																										
PRODUCTS RECEIVED	3	25.00																										
BY <i>[Signature]</i>		75.00																										
APPROVED	CHECKED	DRUM CHARGES	DRUM CREDITS																									
4527	1071479																											

TOTAL NET CASH (NO DISCOUNT) **1831**

Profut.



THIS IS YOUR INVOICE

DELIVERY INVOICE NO. **932641**

STATION **Mayo** DATE **Aug. 9 1975**
 SHIPPED TO **AMAX** TRUCK NO. TRIP NO.

SOLD TO (PRINT) **Amoy Expl.** AUG 18 1975 **3964** CUSTOMER'S ORDER OR REQ. NO. **03964**
 ADDRESS **Whitehorse, Yukon** WP. NO. LOC. DELIVERED BY **J. Hutton**

PRODUCTS DELIVERED	SIZE OF PACKAGE	QUANTITY	PRICE	AMOUNT
J.P. 4	2 Drs	90	759	6831
hauling to dock		2 Drs	1.00	2.00

4540 AUG 21 '75

ADD EXT CORRECT
 APPROVED DATE

PROJECT	ACCOUNT CLASS	SUB CLASS	AMOUNT
671	8684		72.11
671	8684		50.00
671			

TAX (SPECIFY) **90 GALS. @ 02** **180**

PRODUCTS RECEIVED BY **Heather Silb**

RECEIVED PAY: CASH, CHEQUES, EXCH., TOTAL

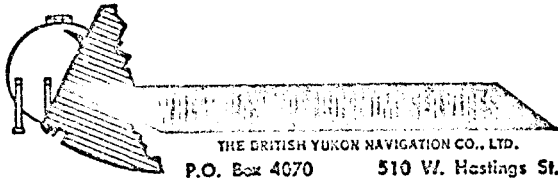
DRUM CHARGES **2** **25.00** **50.00**

DRUM CREDITS

TERMS - NET CASH (NO DISCOUNT) TOTAL **122.11**

Project.

FORM PET 855 65M 73



THE BRITISH YUKON NAVIGATION CO., LTD.
 P.O. Box 4070 510 W. Hastings St.
 Whitehorse, Yukon Vancouver 2, B.C.

THIS IS YOUR INVOICE

DELIVERY INVOICE NO. 932536

STATION <i>17610</i>	DATE <i>July 28</i> 19 <i>75</i>
SHIPPED TO	TRUCK NO. TRIP NO.

SOLD TO (PRINT) <i>Amat Exploration</i>	CUSTOMER'S ORDER OR REQ. NO. <i>03964</i>
ADDRESS	DELIVERED BY <i>J. Hudson</i>
WP. NO.	LOC.

PRODUCTS DELIVERED	SIZE OF PACKAGE	CODE	QUANTITY	PRICE	AMOUNT
<i>Nopka</i>	<i>post</i>		<i>2</i>	<i>6.92</i>	<i>13.84</i>
<i>#671</i>					

FORM PET 855 65M 73

ADD EXT CORRECT	APPROVED	DATE
PROJECT	ACCOUNT CLASS	SUB CLASS
	<i>671 8692</i>	<i>13.84</i>

1027 2540 AUG 21 '75

TAX (SPECIFY)	RECEIVED PAYMENT	GALS. @	
PRODUCTS RECEIVED <i>Hudson</i>	CASH	DRUM CHARGES	
BY	CHEQUES	DRUM CREDITS	
APPROVED	EXCH.	TERMS - NET CASH (NO DISCOUNT)	TOTAL
CHECKED	TOTAL		<i>(13.84)</i>

Profit

Assbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

APAX MINERALS EXPLORATION

601-535 Thurlow Street

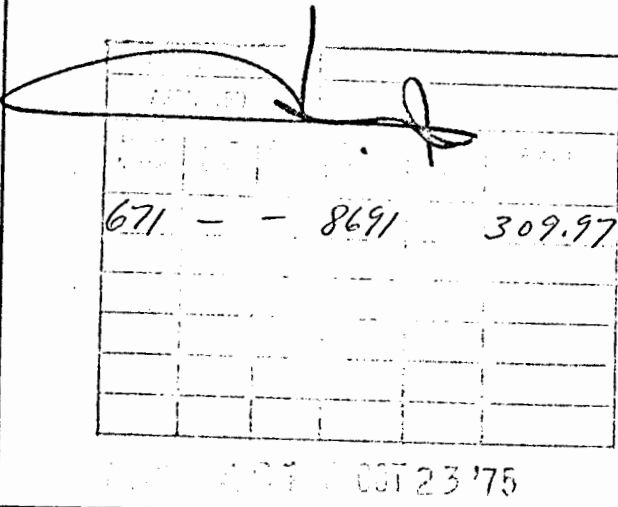
Vancouver, B.C.

re. project # 671, order #

DATE Oct. 23, 1975

INVOICE NO. 5120

CERTIFICATE NO. 5123

ITEM	DESCRIPTION		SUB-TOTAL	TOTAL
83	Geochem. analysis, 9 elements,	@ \$ 3.20	\$ 265.60	
77	Sample prep.	0.10	7.70	
6	Rock sample prep.	0.75	4.50	
11	pH analysis	0.75	8.25	
	Freight as per invoice		23.92	
				
				<u>309.97</u>

TERMS - NET 30 DAYS

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

AMAX MINERALS EXPLORATION

601-535 Thurlow Street

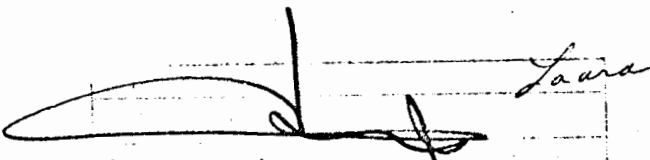
Vancouver, B.C.

re. project # 671, order #

DATE Oct. 23, 1975

INVOICE NO. 5120

CERTIFICATE NO. 5123

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
33	Geochem. Analysis, 9 elements, @ \$ 3.20	\$ 108.50	108.50
15	Sample prep. 0.10	1.50 ✓	
18	Rock sample prep 0.75	13.50 ✓	
6	pH analysis 0.75	4.50 ✓	
 671 - - 8691 - 125.10			
407 OCT 23 '75			
			125.10 <i>Laura</i>
			\$ 125.10

TERMS - NET 30 DAYS

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

CANADA
TELEPHONE: 293 6910
AREA CODE: 604

AMAX MINERALS EXPLORATION

601-535 Thurlow St.

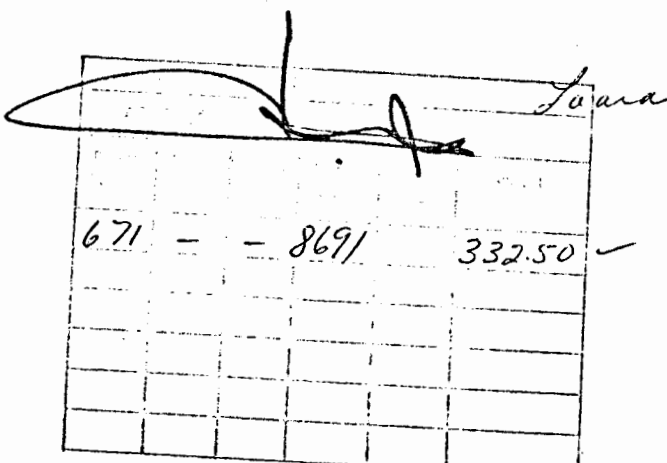
Vancouver, B.C.

Project 671 order 2252

DATE Oct 21, 1975

INVOICE NO. 5149

CERTIFICATE NO. 5119

M	DESCRIPTION		SUB-TOTAL	TOTAL
20	Assays for Zn	6 @ 5.00		
20	Assays for Pb	5.00	\$ 100.00	
20	Assays for Ag	4.00	100.00	
15	Assays for Cu	3.50	80.00	
			52.50	
				
				\$ 332.50

461000T23'75

TERMS - NET 30 DAYS

Prepaid weight charge	Prepaid valuation charge	Due carrier	Total other prepaid charges	Due agent	Total prepaid	For carrier's use only at destination
						21.02
Other charges (except weight charge and valuation charge) insurance Charge:						Collect charges in destination currency
						2.90
						COO amount
						Total charges
						23.92
Collect weight charge	Collect valuation charge	Due carrier	Total other collect charges	Due agent	COO amount	
11.02				10.00		

VRA 2306

PLEASE PROTECT H.A.L. COARGES OF 10.00

R. Rossbacher

PACIFIC SURVEY CORPORATION

INVOICE

Formerly

LOCKWOOD SURVEY CORPORATION LTD.

1409 WEST PENDER STREET VANCOUVER, B. C., CANADA V6B 2S4 TELEPHONE 683-6501

Amax Exploration Inc.,
535 Thurlow Street,
Vancouver, B.C.

AMAX
JUL 2 1975
VANCOUVER OFFICE

INVOICE No. 9093
DATE 27 June 1975
YOUR ORDER No. 2126
JOB No. 75-43
PACKING SLIP No.
SHIPPED VIA

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
	TO: Completion:		
	1. Topographic mapping in pencil manuscript form of the following areas at a scale of 1-inch equals 1000 feet with 100 foot contours: a) Sekwi Brook, N.W.T. b) Doll Creek (N), Y.T. c) Divide, Y.T. d) Dolores Creek, Y.T. e) Mt. Profeit, Y.T. as per packing slips 8367, 83333: Lump sum		\$4,070.00
	2. 3 orthophotos of the following areas at a scale of 1-inch equals 400 feet: a) Sekwi at 1-inch equals 400 feet b) Doll Creek (N) at 1-inch equals 1000 feet c) Doll Creek (S) at 1-inch equals 400 feet d) Divide at 1-inch equals 400 feet e) Dolores Creek at 1-inch equals 400 feet including one set of KP5 prints of each: Lump sum 5% Provincial Sales Tax	\$1,130.00 <u>56.50</u> ✓	1,186.50 ✓
	TERMS: NET CASH. INTEREST CHARGED ON OVERDUE ACCOUNTS	/over to page 2	

Formerly

LOCKWOOD SURVEY CORPORATION LTD.

1409 WEST PENDER STREET VANCOUVER, B. C., CANADA V6B 2S4 TELEPHONE 683-6501

Amax Exploration Inc.,
535 Thurlow Street,
Vancouver, B.C.

AMAX
JUL 2 1975
VANCOUVER OFFICE

INVOICE NO. 9093 Page 2
DATE 27 June 1975
YOUR ORDER NO. 2126
JOB NO. 75-43
PACKING SLIP NO.
SHIPPED VIA

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL																
3.	Two additional sets of KP5 prints of each of (a), (b), (c), (d), (e) and Four additional sets of KP5 prints of (e): as per packing slips 8417, 8384, 8372 Lump sum 12% Federal Sales Tax 5% Provincial Sales Tax	\$680.00 <u>81.60</u> ✓ \$761.60 ✓ <u>38.08</u> ✓	<u>799.68</u> ✓ <u>\$6,056.18</u> ✓																
<table border="1"> <tr> <td colspan="2">ADD & EXT CORRECT</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">APPROVED</td> <td colspan="2"></td> </tr> <tr> <td>PROJECT</td> <td>ACCOUNT CLASS</td> <td>SUB CLASS</td> <td>AMOUNT</td> </tr> <tr> <td>671</td> <td>8626</td> <td></td> <td>6056.18</td> </tr> </table> <p>4470 JUL 4'75</p>				ADD & EXT CORRECT		DATE		APPROVED				PROJECT	ACCOUNT CLASS	SUB CLASS	AMOUNT	671	8626		6056.18
ADD & EXT CORRECT		DATE																	
APPROVED																			
PROJECT	ACCOUNT CLASS	SUB CLASS	AMOUNT																
671	8626		6056.18																
TERMS: NET CASH. INTEREST CHARGED ON OVERDUE ACCOUNTS																			

Contractor's Invoices for Period August 10-17, 1975 and
August 21-22, 1975

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To:					Date: <u>11/18/82</u>		
Pilot					P.O.		
A/C Type <u>206B</u>		Base		Cash	Cheque	Charge	
CF				Area			

From	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate <u>3.8</u>	Hours at \$ <u>300.00</u>	\$ <u>1140</u>	<u>00</u>
Contract Rate	Hours at \$		
Fuel Charge <u>2.3 GAL @ 80¢</u>		<u>19</u>	<u>40</u>
Pilot Expenses			
Other			
I personally guarantee payment of this charter.		TOTAL CHGE.	<u>1159 40</u>
Authorized by:			

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

- | | |
|----------|-----------|
| 1. _____ | 7. _____ |
| 2. _____ | 8. _____ |
| 3. _____ | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

N^o 1082

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Lbs. cargo	Miles flown	Class of flying
	<input type="text"/>	<input type="text"/>	<input type="text"/>

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To:					Date <i>Aug 17/75</i>		
Pilot					P.O.		
Base		Cash		Cheque	Charge		
A/C Type <i>206B</i>		CF		Area			

From	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate <i>2.8</i>	Hours at \$ <i>300.00</i>		\$ <i>840.00</i>
Contract Rate	Hours at \$		
Fuel Charge <i>46 gal @ .80¢</i>			<i>36.80</i>
Pilot Expenses			
Other			
I personally guarantee payment of this charter.		TOTAL CHGE.	<i>876.80</i>
Authorized by:			

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

N^o 1083

1. _____	7. _____
2. _____	8. _____
3. _____	9. _____
4. _____	10. _____
5. _____	11. _____
6. _____	12. _____

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Lbs. cargo	Miles flown	Class of flying
	<input type="text"/>	<input type="text"/>	<input type="text"/>

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Charge To:					Date <i>Aug 22/75</i>		
					P.O.		
Pilot		Base		Cash	Cheque	Charge	
A/C Type <i>206B</i>		CF		Area			

From	To (1)
To (2)	To (3)
To (4)	To (5)
To (6)	To (7)
To (8)	To (9)
To (10)	To (11)

Charter Rate <i>30</i> Hours at \$ <i>300.00 a fuel</i>		\$ <i>900</i>	<i>00</i>
Contract Rate Hours at \$			
Fuel Charge <i>4.5 gal @ 81¢/gal</i>		<i>36</i>	<i>45</i>
Pilot Expenses <i>Profit (7)</i>			
Other			
I personally guarantee payment of this charter.	TOTAL CHGE.	<i>936</i>	<i>45</i>
Authorized by:			

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

N^o 0574

- | | |
|----------|-----------|
| 1. _____ | 7. _____ |
| 2. _____ | 8. _____ |
| 3. _____ | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

No. of Departures	No. of Passengers	No. of hours flown	Base or designated Pt.
<input style="width:100%;" type="text"/>	<input style="width:100%;" type="text"/>	<input style="width:100%;" type="text"/>	<input style="width:100%;" type="text"/>
	Lbs. cargo	Miles flown	Class of flying
	<input style="width:100%;" type="text"/>	<input style="width:100%;" type="text"/>	<input style="width:100%;" type="text"/>

TRA NORTH TURBO AIR (1971) LTD.
 X 4338, WHITEHORSE, YUKON
 TELEPHONE (403) 668-5111 • TELEX 036-8-290

ACCOUNT NUMBER	60
11153	
INVOICE DATE	1/10/75
A/C TYPE	DAC-IT
AIRCRAFT REGISTRATION C	-VPV
FLIGHT DATE	12 08 75
PURCHASE ORDER NO. 671	

CHARTERER **AMAX Northwest Mining**
 BILLING ADDRESS **601 535 Thurlow St
 Vancouver B.C.**

FUEL TANTA	OIL CUST.	TNTA FUELS	25	1975	HRS.-GALS.	1.8 HRS	FROM	MA.
------------	-----------	------------	----	------	------------	---------	------	-----

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
MAYO COUVER OFFICE	110	.9		
PINGUICULA LK.	110	.9		
MAYO				1 MAN'S GEAR

APPROVED						DATE
Project Number	Group Code	Activity Code	Account Class	Days	Amount	
671	-	-	8684		297.00	

Mt Prefect.

SUB	G.L.	AMOUNT
3134	6612	297.00

220	e	1.35	297.00
-----	---	------	--------

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	e	/HR.
FUEL:	e	/GAL.
FUEL:	e	/GAL.
MEALS & LODGING		
OTHER		
OTHER		

Matthew Silb
 CHARTERER'S SIGNATURE

Dave Reid
 PILOT'S SIGNATURE

TIMBLEY
 ENGINEER'S NAME

TOTAL \$ 297.00

INVOICE

Project Number
 671



TRANS NORTH TURBO AIR (1971) LTD.
 BOX 4338, WHITEHORSE, YUKON
 TEL. ONE (403) 668-5111 • TELEX 036-8-290

ACCOUNT NUMBER	60
INVOICE DATE	10432
A/C TYPE	DHC 3
AIRCRAFT REGISTRATION	F5CB
FLIGHT DATE	05 09 75
PURCHASE ORDER NO.	671

CHARTERER: **AMAX NORTHWEST MINING**

BILLING ADDRESS: **601-535 THURLOW STREET VANCOUVER**

DATE: **SEP 12 1975**

FROM: **VIA COUVER MA**

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS. - FREIGHT LBS.
MAYO	182			1 PAX
PALMER LK	140	1.55		1 PAX
PENQUICELA	140			" "
MAYO	182	1.55		" "

Project Number	Group Code	Activity Code	Amount Class	AMOUNT
671	-	-	8684	669.60

SUB	G.L.	AMOUNT
335	602	669.60

4.32	1.55	669.60
------	------	--------

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME	@	/HR.
FUEL:	@	/GAL.
FUEL:	@	/GAL.
MEALS & LODGING		
OTHER		
OTHER		

CHARTERER'S SIGNATURE: *[Signature]*

PILOT'S SIGNATURE: *[Signature]*

ENGINEER'S NAME: **C. TINGLEDY**

TOTAL \$ **669.60**

FLIGHT REPORT
CUSTOMER COPY



TRAVEL NORTH TURBO AIR (1971) LTD.
 X 4338, WHITEHORSE, YUKON
 TELEPHONE (403) 668-5111 • TELEX 036-8-290

ACCOUNT NUMBER	60
10398	
INVOICE DATE	215/01/75
A/C TYPE	DHC-3
AIR RAFT REGISTRATION C.	FSUB
FLIGHT DATE	160875
PURCHASE ORDER NO. 671	

AMAX Northwest Mining
 CHARTERER
 601 535 Thurlow
 BILLING ADDRESS
 Vancouver
 AUG 28 1975
 FROM
 MA

FROM	KATHLEEN	MILES	42	HOURS		ZONE		REMARKS - NO. OF PASS - FREIGHT LBS.	3 DEMS JPH
TO	PINGVICULA.								

Mr. Project.
 SALT TICKET
 #s 10397 - 10399
 \$10400

Project Number	Group Code	Activity Code	Account Class	Sub Class	Amount
671	-	-	8684	-	65.10

SUB	G.L.	AMOUNT
3135	602	65.10

42	e	1.55	65.10
----	---	------	-------

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

Matthew Silks
 CHARTERER'S SIGNATURE
 C. TINGLEY
 ENGINEER'S NAME

WAITING TIME	e	/HR.
FUEL	e	/GAL.
FUEL	e	/GAL.
MEALS & LODGING		
OTHER		

TOTAL \$ 65.10

INVOICE

APPENDIX II

STATEMENT OF QUALIFICATIONS

- A.C. Hitchins B.A.Sc. Geological Engineering, University of Toronto, 1970, M.Sc. Geology, University of Toronto, 1973
Experience includes; geological assistant with AMAX Minerals Exploration 1968-1969, geologist with AMAX Minerals Exploration 1970 to present.
- J.B. Alsen B.Sc. Honour Geology, University of British Columbia, 1975
Experience includes; student summer employment with Texas Gulf Sulfur Co. 1968, Canex Placer Ltd. 1969-1970, Junior for Archer, Cathro & Associates, 1971, Senior for Amoco Canada Petroleum Co. Ltd. 1972, senior for Imperial Oil Ltd. 1973-1974
Currently geologist with AMAX Minerals Exploration.
- L.V. Penco B.A.Sc. Geological Engineering, University of British Columbia, expected 1976.
Experience includes; geologist assistant for Pechiney Development Co. 1970, prospecting for Newmont Company of Canada Ltd. 1971, assayer for Granduc Operating Co. 1972, junior for AMAX Minerals Exploration 1974-1975.
Currently enrolled at U.B.C. for final year.
- J.K. Mortensen B.A.Sc. Geological Engineering, University of British Columbia, expected 1977.
Experience includes; student employment with Conwest Exploration in 1972, warehouseman with Climax Molybdenum (B.C.) Ltd. in 1973, drillers helper for Connors Drilling 1973, geological assistant for AMAX Minerals Exploration 1974-1975.
Currently enrolled at U.B.C.

APPENDIX III - LIST OF CLAIMS

<u>Claim Name</u>	<u>Grant Number</u>	<u>Anniversary Date</u>
DOC 1	Y95359	August 9, 1976
2	Y95360	"
4	Y95362	"
6	Y95364	"
8	Y95366	"
10	Y95368	"
12	Y95370	"
14	Y95372	"
16	Y95374	"
17-48 incl.	Y95375-Y95406 incl.	August 9, 1977
49-52 incl.	Y95407-Y95410 incl.	August 9, 1976
53-64 incl.	Y95411-Y95422 incl.	August 9, 1977
66	Y95424	August 9, 1976
68	Y95426	"
70	Y95428	"
72	Y95430	"
77	Y95435	"
78	Y95436	August 9, 1977
79	Y95437	August 9, 1976
80	Y95438	August 9, 1977
81	Y95439	August 9, 1976
82	Y95440	August 9, 1977
83-86 incl.	Y95441-Y95444 incl.	August 9, 1976
89-98 incl.	Y95447-Y95456 incl.	August 9, 1977
101-110 incl.	Y95459-Y95468 incl.	"
114	Y95472	August 9, 1976
116	Y95474	"
118	Y95476	"
120	Y95478	"
122	Y95480	"
124	Y95482	"
127-129 incl.	Y95485-Y95487	August 9, 1977
130	Y95488	August 9, 1976
131	Y95489	August 9, 1977
132	Y95490	August 9, 1976
133	Y95491	August 9, 1977
134-137 incl.	Y95492-Y95495	August 9, 1976
139	Y95497	"
140-145 incl.	Y95498-Y95503	August 9, 1977
146	Y95504	August 9, 1976
147-150 incl.	Y95505-Y95508	August 9, 1977

APPENDIX IV

DETAILED ROCK DESCRIPTIONS

- Hsc₁ consists of interbedded brown-black slate and gritty limestone with minor dolomite grading downward into black, medium-coarse grained, thinly to thickly bedded, crystalline limestone.
- Hsc₂ consists of finely laminated rusty black slate with minor limy mudstone that often exhibit soft sediment deformation.
- Hsc₃ is a light orange to tan weathering, medium bedded dolomite with shale interbeds.
- Hsc₄ consists of tan-grey weathering, massive dolomite with local interbeds of black to dark grey, fine grained, calcareous sandstone up to 40 feet thick. Scattered calcite filled vugs are surrounded by a stockwork of calcite and minor quartz stringers. Minor iron sulphides are associated with the dolomite beds. The lower portion is characterized by "zebra" textured dolomite and barite and minor planar stromatolites in contrast to the upper portion which contains abundant domal stromatolites.
- Hsc₅ consists of coarse crystalline mottled massive thick bedded dark grey to black weathering, cliff forming dolomite with minor limestone.
- Hsc₆ is a stromatolitic, bright orange to red weathering, grey, dolomite with beds up to two feet thick interbedded with black shale beds up to ten feet thick. The shale also forms partings between individual stromatolitic laminae. Domal and columar stromatolites are common throughout the dolomite; minor planar stromatolities occur in the lower portion.
- Hsc₇ is a finely laminated, grey weathering dolomite in beds up to four feet thick that often contain rip-up clasts and load casts. Black lenticular and irregular pods of chert up to six inches thick and six feet long and occasionally sinuous in outline are indicative of the unit. Dark grey shale locally forms parting planes within dolomite.
- Hsc₈ consists of light orange to tan weathering, medium to dark grey, finely laminated, medium bedded dolomite. Ripple marked shaly partings separate the dolomite beds. Occasional vugs are filled with quartz and calcite.

Where the dolomite is directly overlain by conglomerate of Unit Hcg₁, vertical cracks and irregular cavities within the dolomite are often filled with pebbles similar in composition to pebbles in the conglomerate, indicating that incipient karstification of the dolomite took place before deposition of the conglomerate.

Hsc₉ consists of a rusty brown to black weathering dark grey quartzite beds less than two feet thick separated by narrow dark grey shale beds. Although Unit Hsc₉ appears to generally underlie the clean quartzites of Hsc₁₀, it may grade laterally and/or vertically into Hsc₁₀.

Hsc₁₀ consists of a massive, thick, bedded, resistant, light grey, light brown to purplish weathering, medium to coarse grained, light coloured orthoquartzite. Cross beds and laminations are rare. Hematite staining is concentrated in outcrops close to the unconformity with the overlying Hcg₁. In a large outcrop on the northern portion of claim 137 the upper contact of the quartzite is hummocky and the hollows are filled with angular to subrounded quartzite boulders that grade rapidly upwards into more typical Hcg₁. Fractures, extending down into the quartzite from the erosion surface often contain angular to rounded quartzite fragments.

Hcg₁₁ is a brown weathering, cliff forming polymictic conglomerate. Clasts within the conglomerate vary from 1 - 48 inches across but average 8 - 10 inches and are usually subrounded to well rounded. At least 85 per cent of the clasts are identical to the quartzite of Unit Hsc₁₀, even where Hcg₁ directly overlies dolomite. The remaining fragments consist of varying proportions of rusty sandstone-orange dolomite, and grey dolomite from the underlying Hsc units.

Hcg₁₂ consists of buff to yellow weathering pebble conglomerate, sandstone, grit and siltstone overlying the more resistant Hcg₁₁. Individual beds, often exhibiting graded bedding and ripple marks, vary in thickness from several inches to over five feet. Generally the upper part of Hcg₁₂ is a quartz pebble conglomerate with a dolomite matrix in which the dolomite clast content increases as the upper contact is approached. Although only locally exposed, the contact between the clastic dolomite and overlying massive dolomite appears conformable.

Hcg₁₃ consists of lenses of well bedded maroon siltstone and shale up to 20 feet thick near the upper contact Hcg₁₂.

- Hr₁ is a rusty, medium to fine grained quartzite with up to 5 - 10% disseminated pyrite. This lithology is prominent in the northeast corner of the property but pinches and shales out into Hr₂ to the south. Thickness reaches a maximum of 400² feet.
- Hr₂ consists of brown, black and grey-blue shale and forms the dominant rock type in the lower portion of the Hr Group. This shale is the facies equivalent of Hd¹_m and Hd¹_u.
- Hr₃ is a thinly bedded, black to grey, coarse grained limestone which grades into Hr₂ towards the south. Small lenses of Hr₃ occur within²Hr₂.
- Hr₄ is a cliff forming chaotic carbonate conglomerate containing clasts of limestone and dolomite which vary in shape from very angular through tabular to sub-rounded and range in size from 1/8 inch pisolites to blocks ten feet across. The majority of pebbles and boulders are limestone but dolomite boulders identical to the three dolomite members of Hd¹ are conspicuous within the conglomerate. At many exposures the fragments are grain supported with only minor amounts of dark grey micritic to coarsely crystalline limestone matrix which has a fetid odour on fresh surface.
- Scattered through the conglomerate are commonly contorted lenses of a black, slightly calcareous recessive weathering shale. At the base of the conglomerate and included in map unit Hr₄ is a thin bedded dark grey limestone.
- Within the property the conglomerate occupies a stratigraphic position equivalent to the upper dolomite of Hd¹. The presence of fragments of dolomite units lower in the section implies considerable relief either original or erosional on the reef forming dolomite nearby. Although the conglomerate is not in contact with the reef dolomites, the wide range in clast shape and size and lack of sorting indicates possible origin by debris flows from the reef.
- Hr₅ is a finely laminated, dark brown to black shale with minor silty interbeds. Hr₅ appears to grade into Hr₆ to the south.
- Hr₆ is a thin bedded, dark brown, green or purple assemblage of siltstone and silty shales with minor fine grained quartz rich sandstone. Locally the beds are calcareous and/or dolomitic. Towards the northern property boundary this unit thickens to greater than 1,200 feet.

Hr₇ consists of white to light grey, often rusty weathering coarse grained quartzite and quartz pebble conglomerate. Greater than 90% of the clasts are subangular to well rounded quartzite or white vein quartz fragments. Near the fault zone on claim 62 the quartzite is stained a bright red from oxidizing pyrite. Along strike to the north, Hr₇ becomes darker and the content of black shale, chert and feldspar clasts increases.

APPENDIX V

ASSAY AND GEOCHEMICAL DATA

<u>Sample Number</u>	<u>% Cu</u>	<u>% Zn</u>	<u>% Pb</u>	<u>oz/T Ag</u>	<u>Length (Feet)</u>
53922	-	24.0	0.06	0.16	0.5
53927	0.02	0.06	49.5	9.20	8
53928	<0.01	0.06	29.6	4.40	15
53929	<0.01	0.02	23.2	4.00	2
53930	<0.01	0.01	49.6	9.20	3
53931	<0.01	0.02	22.4	4.00	17
53932	0.04	0.16	16.0	3.20	12
53933	<0.01	0.12	0.40	0.20	10
53934	<0.01	0.04	0.72	0.36	12
53935	<0.01	0.24	0.12	0.16	9
53936	<0.01	6.64	3.48	2.00	21
53937	<0.01	1.30	4.00	2.48	15
53938	<0.01	0.20	2.08	1.00	14
53939	0.16	16.0	47.2	17.2	31
53940	0.04	9.60	52.0	20.8	27
53941	0.01	0.04	6.00	2.08	18
53923	-	4.00	0.06	0.16	3
53924	-	0.02	0.02	0.08	2
53925	-	0.16	0.02	0.12	3
53926	-	0.04	0.16	0.08	2.5

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE OCT 1971
 PROJECT 671
 REQUESTED BY T. HITCHINS

TYPE SAMPLES SOIL/SILT/ROCK
 LOCATION _____
 DISPOSITION OF REJECTS _____

11	L 36	7.2	2	12	16	20	320	1.3	1.0	62	80			11
12	S 37		2	12	16	22	20	10.0	1.0	42	134			12
13	T 38		2	12	16	18	500	2.2	.6	116	86			13
14	L 39		2	28	26	24	260	3.2	1.0	80	60			14
15	L 40		2	26	22	22	100	3.5	.6	54	40			15
16	S 41		2	28	20	18	160	3.8	.8	30	46			16
17	L 42	7.2	2	24	20	18	80	3.2	.8	60	42			17
18	L 43		2	36	38	30	560	3.4	.8	110	58			18
07	L 48	7.5	2	24	30	26	640	2.6	1.0	100	50			07
08	49		2	20	20	22	360	2.6	1.0	52	40			08
09	50		2	12	20	18	400	1.3	.8	232	100			09
10	T 51		24	8000	114	1100	560	2.4	1.4	62	28			10
11	L 52	7.4	2	32	24	24	380	2.6	1.0	60	46			11
12	L 53		2	26	26	20	160	2.8	.8	66	30			12
13	S 54		2	16	14	14	80	2.4	.6	30	30			13
14	S 55		2	20	30	20	120	3.3	.6	40	38			14
15	S 56		2	16	14	16	20	3.6	.6	32	52			15
16	L 57	7.5	2	18	24	20	500	1.6	.8	50	40			16
22	L 32	7.5	2	12	20	16	400	0.7	.6	140	80			22
23	L 33		2	24	24	20	420	2.8	.8	40	30			23
24	T 34		2	6000	30	44	880	1.3	12.0	1100	66			24
25	L 35	7.5	2	22	22	20	460	1.8	.8	150	110			25
26	T 36		2	24	40	30	3600	2.8	1.0	68	36			26
27	T 37		2	20	26	20	560	0.6	1.0	40	36			27
28	T 38		2	16	22	30	60	1.4	.2	12	10			28
29	T 39		2	16	26	30	60	1.2	.2	90	14			29
30	T 40		2	14	26	32	60	1.0	.2	12	14			30
31	T 41		2	8	30	20	500	1.0	1.0	28	38			31
29														29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40														40

COMMENT:

DATE SAMPLES RECEIVED _____
 DATE REPORTS MAILED _____
 ANALYST _____



BONNET PLUME MOUND CARBONATE UNITS

LOWER CAMBRIAN

- Es 1. Brown and orange weathering dolomite, limestone and shale.
- Ec 2. Buff yellow weathering porous dolomite.
- 1. Grey weathering pisolitic dolomite.

UPPER HADRYNIAN

- Hd 2. Porous light grey weathering dolomite.
- 1. Grey weathering dolomite; Hcgl basal conglomerate.
- Hc 2. Grey weathering massive dolomite and limestone.
- 1. Orange weathering banded dolomite and limestone.

S Y M B O L S

- Limit of mapping and/or outcrop.
- Geological contact.
- Fault.
- Synclinal fold axis.
- Outline of claims held by AMAX.

NOTE —
After Geological Survey of Canada Open File Publication No. 205, modified.



AMAX EXPLORATION INC.

MOUNT PROFEIT PROPERTY
MAYO MINING DISTRICT — YUKON
REGIONAL GEOLOGY

SCALE 1 : 250,000 MILES

To accompany "1975 GEOLOGICAL REPORT ON THE MOUNT PROFEIT PROPERTY" by A. C. Hitchens and J. B. Alsen, supervised by G. M. Leary



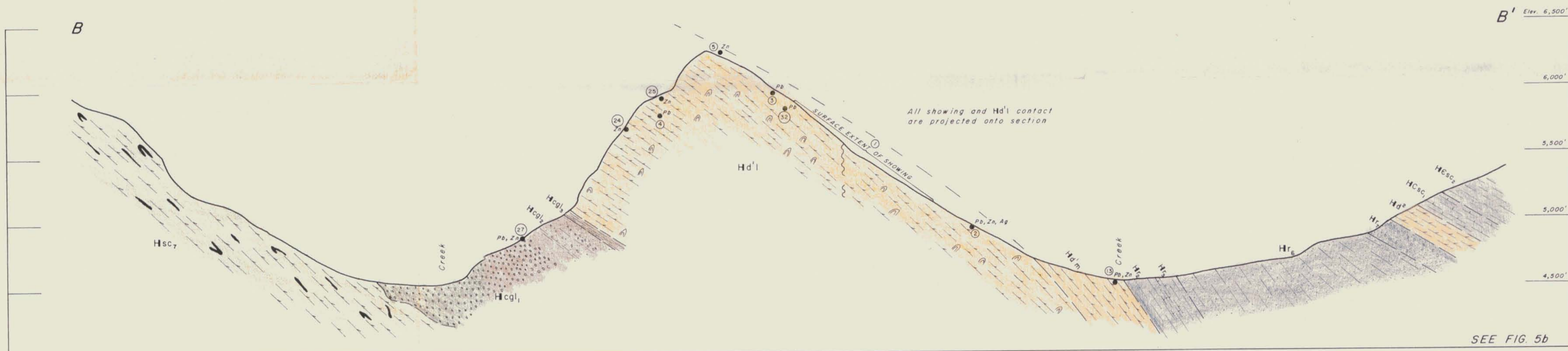
LEGEND

Hsc	SHEPHERD FORMATION — Hsc ₁ , Dark gray to black shale and siltstone. Hsc ₂ , Interbedded gray micritic and silty limestone.
Hd	Yellow weathering, laminated, fine grained dolomite. Hd ₁ , Black shale.
Hr	RAPITAN GROUP — Hr ₁ , Rusty to light gray quartzite and pebble conglomerate. Hr ₂ , Rusty green-brown siltstone and shale. Hr ₃ , Black shale and siltstone.
Hr₁	Limestone - dolomite conglomerate.
Hr₂	Black, coarse grained limestone. Hr ₃ , Black shale.
Hr₄	Quartzite.
Hd₁	Dolomite.
Hd_{1u}	Pink-gray weathering, sandy stromatolitic dolomite.
Hd_{1m}	Yellow weathering, massive, fine grained dolomite.
Hd_{1l}	Light gray weathering, mottled, stromatolitic dolomite.
Hcg₁	Hcg ₁ , Maroon siltstone and shale. Hcg ₂ , Yellow weathering pebble conglomerate, sandstone and grit. Hcg ₃ , Brown boulder conglomerate.
Hsc	Hsc ₁ , Light colored quartzite. Hsc ₂ , Rusty brown quartzite with shale partings. Hsc ₃ , Light orange weathering, medium bedded dolomite with minor shale. Hsc ₄ , Light gray weathering, well bedded dolomite with chert nodules. Hsc ₅ , Bright orange weathering dolomite and black shale. Hsc ₆ , Coarse crystalline, massive, dark gray dolomite. Hsc ₇ , Gray weathering, massive, stromatolitic dolomite with minor sandstone beds. Hsc ₈ , Light orange weathering, medium bedded dolomite with minor shale. Hsc ₉ , Rusty black slate with minor limy mudstone. Hsc ₁₀ , Interbedded brown-black slate and gritty limestone.
Hd₁	Light gray weathering dolomite with minor limestone.

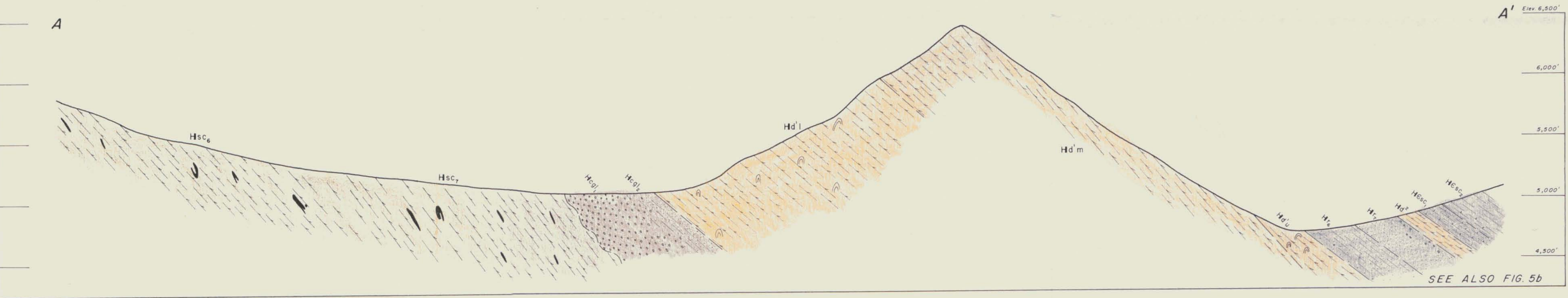
SYMBOLS

	Limit of outcrop.
	Geological contact.
	Fault showing down throw side, or shear.
	Bedding attitude (inclined, vertical).
	Top of beds.
	Jointing attitude (inclined, vertical).
	Lineation.
	Anticlinal fold axis showing direction of plunge.
	Synclinal fold axis.
	Mineral occurrence showing number.
	Soil sample site, sample number, p.p.m. Pb, Zn, Cu, Ag.
	Silt sample site, sample number, p.p.m. Pb, Zn, Cu, Ag.
	Rock chip sample site, sample number, p.p.m. Pb, Zn, Cu, Ag.
	Claim post, claim location line.
	Claim boundary.
	Stream.
	Topographic contour (contour interval 100').

NOTE —
 SUN 13-16 mineral claims owned by Yukon Revenue Mines Ltd.
 ROB 3 mineral claim owned by Consolidated Coast Silver Mines Ltd.



CROSS SECTION
 LOOKING NORTHWEST



CROSS SECTION
 LOOKING NORTHWEST

NORTH SHEET

SOUTH SHEET

KEY

AMAX EXPLORATION INC.
 MOUNT PROFFIT PROPERTY
 MAYO MINING DISTRICT YUKON TERRITORY
 DOC CLAIMS
GEOLOGICAL MAP
 SOUTH SHEET

SCALE: 1" = 200 METERS

Drawn by: [Signature]
 Date: [Date]
 N.T.S. File: [File Number]

FIG 5a

To accompany 1975 GEOLOGICAL REPORT ON THE MOUNT PROFFIT PROPERTY by A.C. HITCHINS and J.B. ALLEN, supervised by G.M. LEARY.

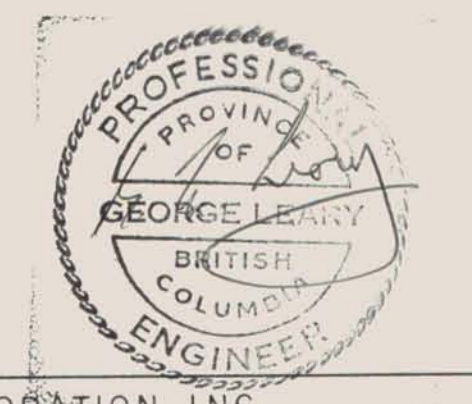
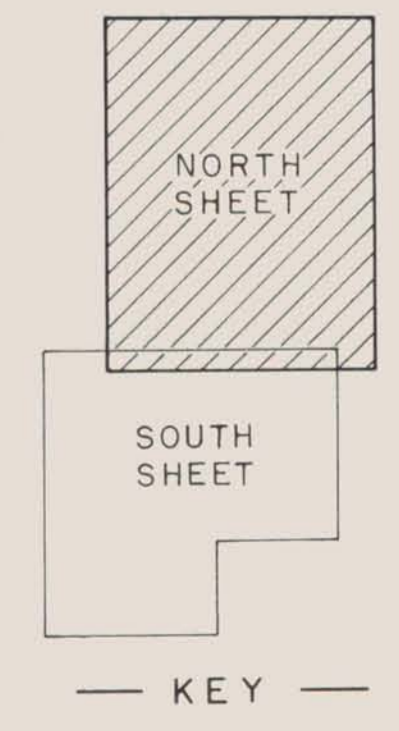
L E G E N D

- UPPER HADRYNIAN**
- Hcsc** SHEPHERD FORMATION — Hcsc₁ Dark gray to black shale and siltstone. Hcsc₂ Interbedded gray micritic and silty limestone.
 - Hd¹** Yellow weathering, laminated, fine grained dolomite. Hd² Black shale.
 - Hr** RAPITAN GROUP — Hr₁ Rusty to light gray quartzite and pebble conglomerate. Hr₂ Rusty green-brown siltstone and shale. Hr₃ Black shale and siltstone.
 - Hr₁** Limestone - dolomite conglomerate.
 - Hr₂** Black, coarse grained limestone. Hr₃ Black shale.
 - Hr₄** Quartzite.
 - Hd** Dolomite.
 - Hd¹₁** Pink-gray weathering, sandy stromatolitic dolomite.
 - Hd¹_m** Yellow weathering, massive, fine grained dolomite.
 - Hd¹_l** Light gray weathering, mottled, stromatolitic dolomite.
 - Hcgl** Hcgl₁ Maraon siltstone and shale. Hcgl₂ Yellow weathering pebble conglomerate, sandstone and grit. Hcgl₃ Brown boulder conglomerate.
 - Hsc** Hsc₁ Light coloured quartzite. Hsc₂ Rusty brown quartzite with shale partings. Hsc₃ Light orange weathering, medium bedded dolomite with minor shale. Hsc₄ Light gray weathering, well bedded dolomite with chert nodules. Hsc₅ Bright orange weathering dolomite and black shale. Hsc₆ Coarse crystalline, massive, dark gray dolomite. Hsc₇ Gray weathering, massive, stromatolitic dolomite with minor sandstone beds. Hsc₈ Light orange weathering, medium bedded dolomite with minor shale. Hsc₉ Rusty black slate with minor limy mudstone. Hsc₁₀ Interbedded brown-black slate and gritty limestone.
 - Hc¹** Light gray weathering dolomite with minor limestone.

S Y M B O L S

- Limit of outcrop.
- Geological contact.
- Fault showing down throw side, or shear.
- Bedding attitude (inclined, vertical).
- Top of beds.
- Jointing attitude (inclined, vertical).
- Lineation.
- Anticlinal fold axis showing direction of plunge.
- Synclinal fold axis.
- Mineral occurrence showing number.
- Soil sample site, sample number; p.p.m. Pb, Zn, Cu, Ag.
- Silt sample site, sample number, p.p.m. Pb, Zn, Cu, Ag.
- Rock chip sample site, sample number; p.p.m. Pb, Zn, Cu, Ag.
- Claim post, claim location line.
- Claim boundary.
- Stream.
- Topographic contour (contour interval 100').

NOTE — SUN 13-16 mineral claims owned by Yukon Revenue Mines Ltd. ROB 3 mineral claim owned by Consolidated Coast Silver Mines Ltd.



AMAX EXPLORATION INC.
 MOUNT PROFIT PROPERTY
 MAYO MINING DISTRICT — YUKON
 DGC CLAIMS
GEOLOGICAL MAP
 NORTH SHEET

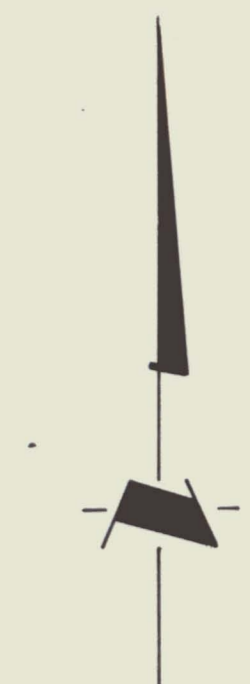
SCALE: 1:50,000 (1 inch = 1 mile)

DATE: 1975
 DRAWN BY: G.M. Leary
 CHECKED BY: G.M. Leary

FIG 5b

To accompany "1975 GEOLOGICAL REPORT ON THE MOUNT PROFIT PROPERTY" by A.C. HITCHINS and J.B. ALLEN, supervised by G.M. Leary.





L E G E N D

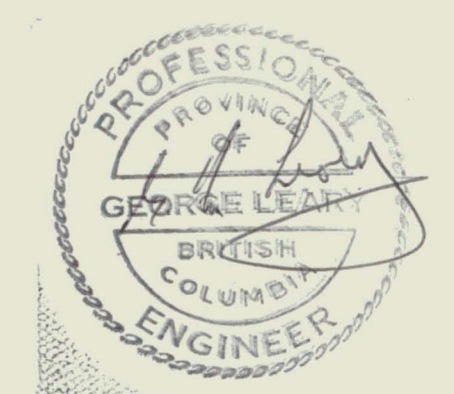
- UPPER HADRYNIAN
- Hd² Yellow weathering, laminated, fine grained dolomite
 - Hr RAPITAN GROUP — Hr₁ Rusty to light gray quartzite and pebble conglomerate. Hr₂ Rusty green brown siltstone and shale. Hr₃ Black coarse grained limestone. Hr₄ Black shale.
 - Hd Dolomite
 - Hd¹m Yellow weathering, massive, fine grained dolomite
 - Hd¹ Light gray weathering, mottled stromatolitic dolomite.
 - Hcgl₁ Hcgl₁ Maroon siltstone and shale. Hcgl₂ Yellow weathering pebble conglomerate sandstone and grit. Hcgl₃ Brown boulder conglomerate.

S Y M B O L S

- Limit of outcrop.
- Geological contact.
- Fault showing down throw side.
- Bedding attitude.
- Jointing attitude (inclined, vertical).
- Mineral occurrence showing number.
- Selected chip sample, % Pb, % Zn, oz/ton Ag (footage).
- Claim boundary.
- Claim post, claim location line.
- Topographic contour, (contour interval 100')
- Stream.

INSET
SCALE 1" = 20'

22 40, 0 02, 4 00 (17')	49 60, 0 00, 9 20 (12')
29 60, 0 06, 4 40 (15')	49 60, 0 00, 9 20 (12')
49 50, 0 06, 9 20 (18')	



AMAX EXPLORATION INC.
MOUNT PROFIT PROPERTY
MAYO MINING DISTRICT — YUKON
DOC CLAIMS
GEOLOGICAL MAP
MAIN SHOWING

SCALE 1" = 200 FEET
SCALE 1" = 100 METERS

DATE REVISION	DATE PRINTED	Drawn by: Date	N.T.S. File	FIG. 6
			006 C 14	

To accompany 1975 GEOLOGICAL REPORT ON THE MOUNT PROFIT PROPERTY by A.C. Hitchins and J.B. Aisen supervised by G.M. Leary

