



KENNCO EXPLORATIONS, (WESTERN) LIMITED

Report on

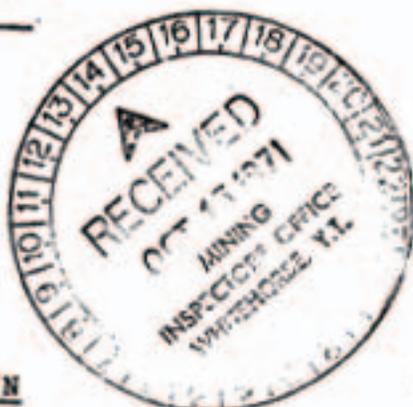
GEOLOGICAL and GEOCHEMICAL  
INVESTIGATIONS

WRANGELL CLAIM GROUP

Located at

The Alaska Border at 62°00'N

Map Sheet 115 K/2



This report has been examined by the Geological Department and is hereby certified to the Department to be correct and as recommended in the amount of

\$10,000

D. B. Clay  
Inspector

by

Credited as recommended work under Section 53 (4) Yukon Mining Act.

K. A. Grace, P. Eng.

Field Work Done

[Signature]  
Geological Department of Yukon Territory

June 20 - July 8, 1970

June 5 - June 11, 1971

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KENNCO EXPLORATIONS, (WESTERN) LIMITED

Report on

Geological and Geochemical  
Investigations

Wrangell Claim Group

INTRODUCTION

The Wrangell Group of claims is located on the Alaskan Border immediately north of Latitude 62°00'N. This is approximately 30 miles south of the community of Beaver Creek and approximately 15 miles west of the Alaska Highway bridge over the White River.

The initial 69 claims were staked in early June 1970, and registered on June 16, 1970. Transfer of the claims from the original stakers were effected on August 10, 1970. Sixteen additional claims were recorded on August 31, 1970.

All work was performed under the general supervision of K. A. Grace, P. Eng., assisted by J.B. Richards and A. Panteleyev, geologists, and various field staff.

ACCESS

From Whitehorse by road via the Alaska Highway to White River (250 miles) or Beaver Creek (283 miles), alternately, by fixed wing aircraft to Beaver Creek airfield, or by float plane to Pickhandle Lake near White River.

Lodging is available at both Beaver Creek and White River. The claims can be reached by helicopter from either of these two localities.

GEOCHEMICAL INVESTIGATION

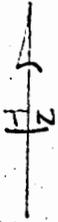
&

GENERAL PROSPECTING

by K. A. Grace

GENERAL:

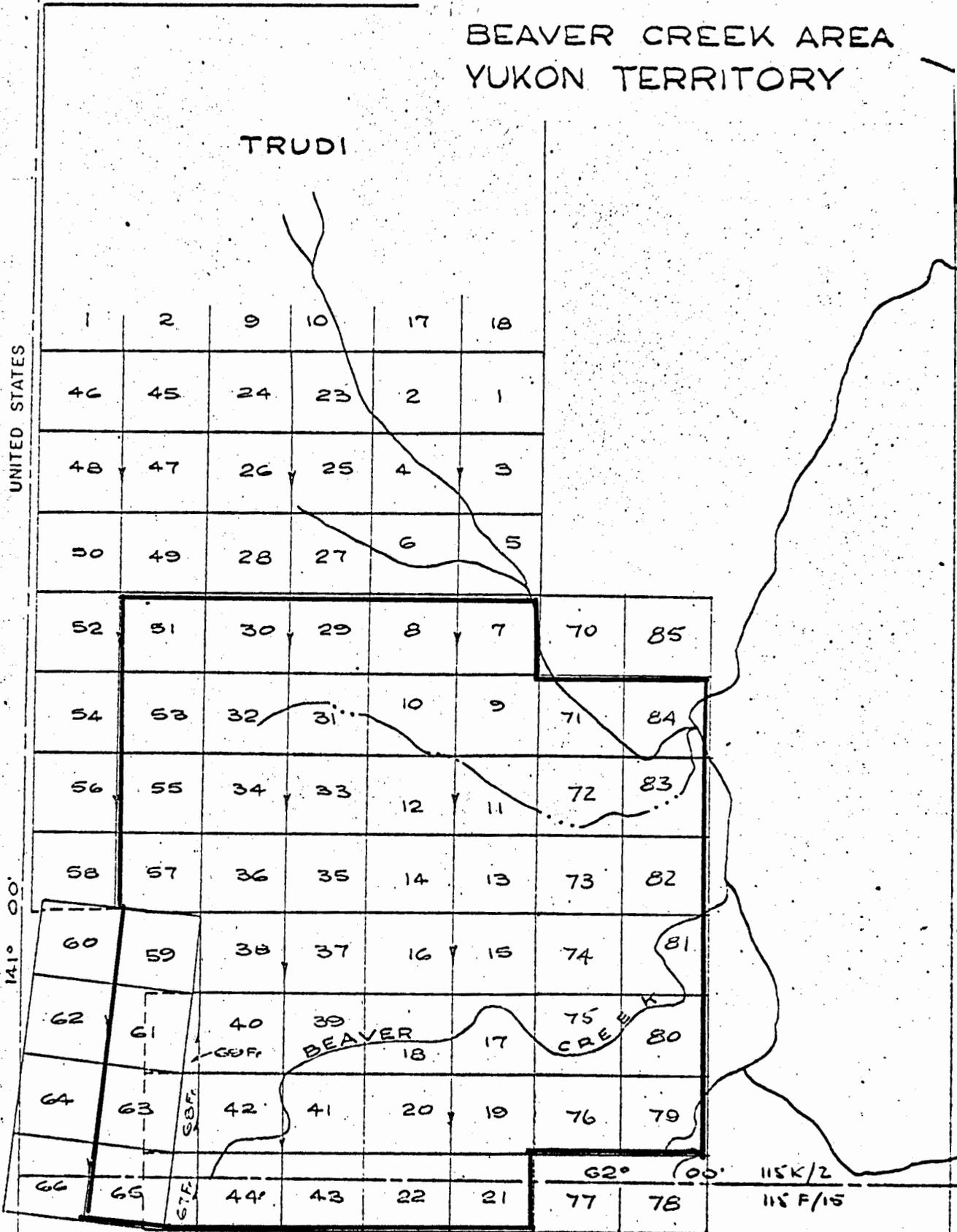
During the period June 20 - July 1, 1970 a general reconnaissance programme of geochemical sampling and general prospecting was carried out.



CANADA

# LOCATION PLAN OF WRANGELL MINERAL CLAIMS

## BEAVER CREEK AREA YUKON TERRITORY



SCALE: 1/2 MILE = 1 INCH

### GEOCHEMISTRY:

Silt samples were collected in streams on the claims, as well as in creeks draining the general area. Samples were taken from active material, that is, under flowing water either in streams or seepages. The samples were fine silt taken by hand with due avoidance of organic material. Results were plotted on a topographic map at a scale of 1" = 500', the map being obtained by enlarging portions of standard 1:50,000 maps of this area.

Rock geochemistry samples were collected from suitable outcrops and plotted as above.

Soil samples were packaged in 9" x 4" wet strength paper bags, and rock samples in cloth bags of suitable size. The sample packages were carefully numbered using the Company's standard numbering system, and despatched for assay to the Company's laboratory in North Vancouver, British Columbia.

### SAMPLE PREPARATION AND ANALYSIS:

Silt samples were oven-dried at 80°C and sieved through an 80 mesh size stainless steel screen (these sieves do not show measurable wear even after several thousand siftings). The minus 80 mesh fraction is used for chemical analysis. Rock samples were dried, primary crushed to 1/4", secondary crushed to minus 10 mesh, redried and pulverized to 100 mesh.

The samples were analysed in the North Vancouver laboratory of Kennco Explorations, (Western) Limited under the supervision of H. Goddard, laboratory manager.

The Cu, Mo, Pb, Zn, Co, Ni, Ag analyses utilizes a one-gram 80 mesh sample which is placed in a 25 x 200 mm test tube. Two ml of concentrated nitric acid is added. The sample is allowed to digest 15 minutes, and 5 ml of 70% perchloric acid is added. The sample is digested on a medium heat hot plate for four hours. After cooling the sample is diluted to 55 ml with distilled water, agitated, and after settling, the solution is used for the determination of Cu, Mo, Pb, Zn, Co, Ni, Ag by an Atomic Absorbtion Spectrophotometer (Techtron AA5).

The Au analysis utilizes a 10 gm sample treated and analysed as above.

### INTERPRETATION OF GEOCHEMICAL DATA:

Geochemical anomalies were obtained for copper and molybdenum. The creeks draining the high ground to the west of the claims produced high silt results of 760 ppm Cu and 16 ppm Mo against a regional background

of 50 ppm Cu and less than 1 ppm Mo. Follow-up rock geochemistry gave highs of 820 ppm Cu and 150 ppm Mo. In addition, anomalous gold values were found in the rocks.

A source area and possible economic target is indicated in the west central portion of the claim group.

#### GENERAL PROSPECTING:

A general examination of outcrops was carried out during the geochemical sampling program. This indicated that the general geology consists of a granodiorite intrusion in older gneisses and schists. The intrusive itself appeared to consist of several phases including quartz porphyry and a fairly thick (+50') breccia zone. These rocks are fractured in part and fractures commonly contain pyrite mineralization. Prominent gossans are exposed where deep ravines cut the bedrock northwest of the main channel of Beaver Creek.

#### GEOLOGY:

Geological mapping and selective geochemical rock sampling were carried out during the period June 6 - 10, inclusive. Emphasis was placed on locating sources of geochemical anomalies which emanate from gossans exposed over a mile along the banks and on the incised hillside to the north and west of Beaver Creek. Interest became centered in the southern half of the claim block in a 1 by 2 mile region in which a number of granitic phases intrude the main stock. Thinly bedded argillite and greywacke exposures in the northern half of the claim area appear to have no significant mineralization nor importance to further exploration.

#### REGIONAL SETTING:

The claims are located along the Yukon-Alaska boundary at the northwest end of Tchawsahmon Ridge in the Nutzotin Range portion of the Kluane Range. Tchawsahmon Ridge is underlain by intrusive granodiorite core of what appears to be an elongate syntectonic stock whose long axis follows the northwesterly Cordilleran trend. The stock intrudes northwest-southeasterly trending thinly-bedded sedimentary units which now stand vertically or dip steeply away from the stock. G.S.C. maps show the stock to be part of the Cretaceous and (?) Earlier Kluane Range intrusions in Upper Jurassic and Lower Cretaceous Dezadeash Group sedimentary rocks. The stock is intruded by a northeasterly trending, presumably Tertiary, quartz-rich intrusive body. The claims lie along Beaver Creek where the younger intrusion is exposed and straddle the north and northeast contact of the granodiorite stock with Dezadeash Group rocks.

DEZADEASH GROUP:

Bedded argillite and greywacke outcrop in the northern half of the claim group. The argillite beds are generally 1/2 to 2 inches thick and tend to form alternating light and dark bands. The rocks are only moderately fractured and form resistant outcrops which, when hit with a hammer, break across bedding planes. Greywacke composed of fine to medium grained sand with occasional chert and volcanic pebbles forms massive dark grey beds a few feet in thickness. Bedding 'tops', although not verified, seem to be towards the north indicating the beds are right side up. Measured attitudes are relatively uniform and range from: a strike 102 - 115° (azimuth), dip vertical or nearly so to 53° towards North North East. No folding nor significant foliation and only a few east-west faults without much apparent offset were noted.

INTRUSIVE ROCKS:

Four granitic phases representing at least two periods of intrusion were recognized in the map area.

KLUANE RANGES INTRUSIONS:

These rocks which form the bulk of the intrusive mass in the region are predominantly hornblende=biotite granodiorite with subordinate amounts of basic rock ranging from diorite to hornblendite. The granodiorite is a medium-grained rock with a hypidiomorphic equigranular texture. It shows some variation in the quantity and ratio of mafic minerals and feldspars and thus, varies from grey to pink in appearance and from hornblende-biotite to biotite-hornblende granodiorite in composition. Scattered, small dioritic xenoliths and random aplite veins are common.

Mafic-rich phases in the granodiorite are fine to medium grained diorite and reportedly quartz diorite and gabbro in some areas (Muller, G.S.C. Memoir 340). In almost all of the larger diorite bodies observed, hornblende-rich segregations have developed extensive zones of hornblendite. The mafic-rich zones are relatively small and irregular and tend to occur as isolated masses or mixed zones of diorite-hornblendite, migmatite and inclusions of country rock near margins of the stock or near internal igneous contacts between phases within the stock. The age relation of the granodiorite to diorite-hornblendite is indefinite. In most cases diorite intrudes granodiorite but such is not always the case. Regardless whether the granodiorite and diorite are differentiates of a single magma or formed from mixed magmas, both rock types are regarded to be contemporaneous products of a mesozoic intrusive event.

### Tertiary (?) Granitic Intrusions:

A demonstrably crosscutting, northeast trending, quartz-rich mass of presumably Tertiary age measuring roughly 3500 x 8500 feet intrudes the granodiorite. The rock contains abundant quartz along with feldspars, biotite and minor hornblende. On the basis of texture the intrusion can be divided into two readily distinguishable phases - quartz-feldspar porphyry and granite. Besides these two 'end member' phases there is a full range of gradational textural types between quartz feldspar porphyry and granite. The granite is a halocrystalline, porphyritic rock with phenocrysts of biotite and feldspar in a seriate fine-grained groundmass of mainly quartz and orthoclase. It varies from a commonly pink to medium grey colour and can be quite leucocratic. The quartz feldspar porphyry is leucocratic light grey rock composed of up to about 25% distinct quartz "eyes" of well developed, terminated crystals of quartz generally not larger than 3-4 mm. The quartz and small phenocrysts of feldspar and biotite are set in a grey aphanitic, microcrystalline groundmass. Except for the textural differences the two phases are mineralogically similar and always associated with each other spatially and therefore, are considered to be consanguous and cogenetic.

### Minor Intrusions:

Very few dykes or sills can be seen in outcrop. A handful of andesite and porphyritic andesite sills a few tens of feet thick were noted in Dezadeash Group sediments. A single, thin basalt dyke was the only body seen to intrude a quartz-rich granitic phase.

### BRECCIA ZONES:

A few, narrow zones of brecciated rock were mapped near the eastern margin of the granodiorite stock and along borders of diorite dykes and hornfelsic inclusions of country rock. None of these breccias appears to be more than a narrow, healed fracture zone and all are devoid of any significant mineralization.

The most extensive brecciated area is a horse or large inclusion at least 250 feet in width and of unknown length that is exposed in a gully in the southwestern corner of the claims. The rock is a breccia containing some rounded, partially assimilated granitic cobble-sized fragments in a recrystallized, partly dioritized hornfels matrix. The body appears to be a rafted block of country rock or basement rather than an intrusive breccia pipe that has been introduced along a contact between quartz feldspar porphyry and granite.

ROCK ALTERATION:

Primary rock alteration is, at best, subtle. Most outcrop exposures are fresh and unaltered-looking. Small amounts of chlorite and epidote can be found throughout the property. Marked increases in the amount of epidote were noted in certain outcrops but no pattern nor zoning was apparent. Weak hypogene sericite is believed to be associated with pyritic mineralization but is difficult to confirm from surface examination. Sericite formation and feldspar breakdown to clay assemblages is common in gossanous portions of the rocks but their development appears to be in largely or totally due to surface oxidation of pyrite and weathering.

MINERALIZATION:

Mineralization is almost exclusively joint and fracture controlled pyrite amounting to 1-2%. In a few zones pyrite up to about 4-5% has formed across narrow widths. Veining is not important at surface as only a handful of quartz veins to 1/4" in width were observed. A moderate number of 1 to 3 inch aplite veins were noted in granodiorite and diorite but these were invariably barren. Every type of rock in the proximity of the quartz-rich intrusions is mineralized with pyrite. The most abundant sulphides appear to have formed in granodiorite adjacent to quartz feldspar porphyry and granite intrusions or in the more closely jointed portions of the quartz feldspar porphyries and granites themselves. The diorite-hornblendite breccia zones, and hornfelsic inclusions in internal contact zones within the stock show only weak mineralization.

Gossans have formed in areas of more pronounced jointing where surface oxidation has formed thin limonite coatings on fracture and joint planes. Joints are commonly 1 to 2 feet apart and only rarely more frequent than at 6-inch intervals. The most pronounced and highly coloured gossans are formed by oxidation in relatively narrow zones of crumbled quartz feldspar porphyry and granodiorite. Leaching and limonite formation is only superficial. Minor chalcopyrite, malachite and traces of sooty chalcocite were found in one locality in leucocratic granite-bearing 1% or less pyrite. The rock was fresh and about 500 feet distant from the nearest gossan. A solitary quartz vein in fresh looking granodiorite on the bank of Beaver Creek was the only occurrence noted to contain molybdenite.

CONCLUSIONS:

Based on geological mapping the area of interest was narrowed down to the south half of the claim group and focused on the southwest corner in the area intruded by younger phases of quartz-rich granitic rocks. Weak pyrite mineralization and subtle rock alteration are apparent. The zones of weak pyrite mineralization give rise to gossans which when tested by rock geochemistry yield values up to 820 ppm Cu and 90 ppm Mo.

The limited outcrop exposure of favourable rock types and their internal intrusive contacts within the stock still leaves large areas immediately to the north and west of Beaver Creek for which there is no information. Also the rock geochemistry and alteration data are insufficient to be useful for defining zonal patterns of mineralization. Therefore, the potential for ore, considering possibilities at depth, has not been fully tested.



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K. A. Grace, P. Eng.

Vancouver, B.C.

June 25, 1971

LIST OF PARTICIPANTS IN FIELD INVESTIGATIONS

K. A. Grace, P. Eng.

c/o Kennco Explorations, (Western) Limited  
730 - 505 Burrard Street,  
Vancouver 1, B.C.

J. B. Richards, Geologist

Formerly with Kennco.  
c/o Duval Corp,  
Marine Building,  
355 Burrard Street,  
Vancouver 1, B.C.

A. Panteleyev, Geologist

c/o Kennco Explorations, (Western) Limited,  
730 - 505 Burrard Street,  
Vancouver 1, B.C.

D. Yeager )

I. Hayes )Field Assistants

J. Paine )

c/o Kennco Explorations, (Western) Limited,  
730 - 505 Burrard Street,  
Vancouver 1, B.C.

SUMMARY OF COSTS

June 20 - July 1, 1970

Salaries & Wages

K.A. Grace:	Field 5 days @ \$45.00	\$225.00
	Office 3 " @ 45.00	135.00
J.B.Richards	Field 5 days @ \$25.00	125.00
	Office 2 " @ 25.00	50.00
D. Yeager	5 days @ \$15.00	75.00
I. Hayes	5 days @ \$15.00	75.00
J. Paine	5 days @ \$15.00	75.00
		<hr/>
		\$760.00

Board & Lodging

Beaver Creek Rooms (1/2 of \$580.00)	280.00
Meals (1/2 of \$394.90)	197.45
	<hr/>
	477.45

Transportation

Whitehorse-Beaver Creek (Tintina Air)	329.00
Return	228.00
Helicopter Charter 20.60 hrs @ \$155.00	3,193.00
(Klondike Helicopter) excess fuel costs	144.80
(5/12 of 345.60)	
Crew lodging	236.50
Truck Rental	20.00
	<hr/>
	4,151.30

Assaying

Chemical analyses of 45 samples	
(a) Cu,Mo,Pb,Zn,Co,Ni,Ag @ \$5.00	225.00
(b) Au (21 samples only) @ 2.00	42.00
	<hr/>
	267.00

Miscellaneous Expenses

Field Supplies	49.35
Flare kits	17.90
Rock thin sections	9.00
	<hr/>
	76.25

Sub Total	\$5,732.00
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Summary of Costs (Cont'd.)

June 5 - 11, 1971

Salaries & Wages

K. A. Grace	2 days @ \$50.00	\$100.00	
A. Panteleyev	6 days @ \$30.00	180.00	
J. Paine	6 days @ \$15.00	90.00	
		<hr/>	370.00

Board & Lodging

White River (cabins & meals)		125.30	125.30
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Transportation

Helicopter Charter (Klondike Helicopter)		3,669.00	3,669.00
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Assaying

Chemical analyses of 8 samples			
(a) Cu,Mo,Pb,Zn,Co,Ni,Ag @ \$5.00		40.00	
(b) Au @ \$2.00		16.00	
		<hr/>	56.00

Drafting

Wages: J. Lum 2 days @ \$30.00		60.00	60.00
		<hr/>	4,280.30

Sub total brought fwd.			<hr/> 5,732.00
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Total			<hr/> \$10,012.30
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ALLOCATION OF EXPENDITURES

<u>Claim Grouping</u>	<u>Amount</u>
1. Wrangell 13 - 20 35 - 42	\$ 3,600.00
2. Wrangell 12,21,22,33,34,43,44, 55,57,59,61,63,65 67 Fr., 68 Fr., 69 Fr.	3,000.00
3. Wrangell 7 - 10 29 - 32, 51, 53	2,200.00
4. Wrangell 71 - 76; 79 - 84	<u>1,200.00</u>
	<u>\$10,000.00</u>

Excess expenditure on grouping (1), (2), & (3) to be carried forward for credit of an additional year's representation work.

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**KENNCO EXPLORATIONS (WESTERN) LIMITED**

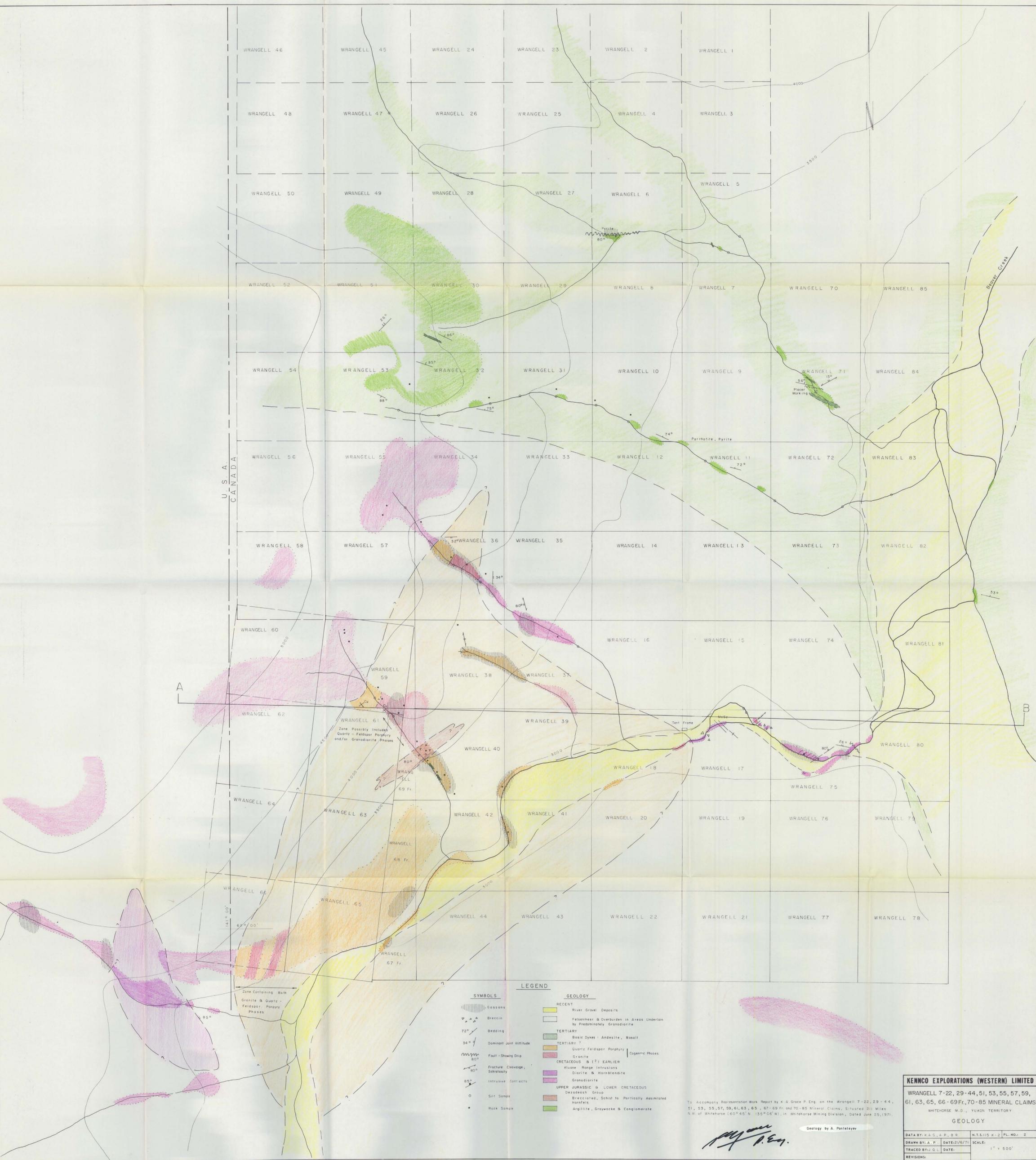
WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr., 70-85 MINERAL CLAIMS  
WHITEHORSE M.D., YUKON TERRITORY

**EXPIRY DATES**

DATA BY: K.A.G., R.P., B.R.	N.T.S. 115 K-2	PL. NO. 1
DRAWN BY: J.G.L.	DATE: 2/16/71	SCALE: 1" = 500'
TRACED BY:	DATE:	
REVISIONS:		

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 67-69 Fr. and 70-85 Mineral Claims, Situated 2 1/2 Miles N.W. of Whitehorse (60°45'N 135°06'W), in Whitehorse Mining Division, Dated June 25, 1971.

*K.A. Grace P. Eng.*



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A

B

**LEGEND**

**SYMBOLS**

- ▨ Gossans
- ▴ Breccia
- 72° Bedding
- 34° Dominant Joint Attitude
- ~ Fault - Showing Dip
- 80° Fracture Cleavage, Schistosity
- 85° Intrusive Contacts
- Silt Sample
- Rock Sample

**GEOLOGY**

- RECENT
  - ▨ River Gravel Deposits
  - ▨ Falsemire & Overburden in Areas Underlain by Predominately Granodiorite
- TERTIARY
  - ▨ Basic Dykes, Andesite, Basalt
  - ▨ Quartz Feldspar Porphyry
  - ▨ Granite
- TERTIARY ?
  - ▨ Cogenetic Phases
- CRETACEOUS & (?) EARLIER
  - ▨ Klondike Range Intrusions
  - ▨ Diorite & Hornblende
  - ▨ Granodiorite
- UPPER JURASSIC & LOWER CRETACEOUS
  - ▨ Depositional Group
  - ▨ Brecciated, Schist to Particly Assimilated Hornfels
  - ▨ Argillite, Graywacke & Conglomerate

Zone Possibly Included  
Quartz - Feldspar Porphyry  
and/or Granodiorite Phases

Zone Containing Both  
Granite & Quartz -  
Feldspar Porphyry  
Phases

To Accompany Representation Work Report by K. A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr. and 70-85 Mineral Claims, Situated 21 Miles N.W. of Whitehorse (60°45'N, 135°06'W), in Whitehorse Mining Division, Dated June 25, 1971.

*Handwritten signature*

Geology by A. Panfiliyev

**KENNCO EXPLORATIONS (WESTERN) LIMITED**

WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr., 70-85 MINERAL CLAIMS  
WHITEHORSE M.D., YUKON TERRITORY

**GEOLOGY**

DATA BY: K.A.S., A.P., B.R.	N.T.S. 115 K-2	PL. NO. 2
DRAWN BY: A.P.	DATE: 2/6/71	SCALE: 1" = 500'
TRACED BY: J.L.	DATE:	
REVISIONS:		



U. S. A.  
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Rever Creek

LEGEND

- Silt Sample Site
- Rock Sample Site

**KENCO EXPLORATIONS (WESTERN) LIMITED**

WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69Fr., 70-85 MINERAL CLAIMS  
WHITEHORSE M.D., YUKON TERRITORY  
SILT & ROCK SAMPLE SITES

To Accompany Representation Work Report by K. A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 67-69 Fr. and 70-85 Mineral Claims, Situated 211 Miles N.W. of Whitehorse (60° 45' N 135° 06' W), in Whitehorse Mining Division, Dated June 25, 1971.

*Handwritten signature*

DATA BY: K.A.G., A.P., B.R.	N.T.S. 115 K-2	PL. NO.: 3
DRAWN BY: J.Q.L.	DATE: 2/6/71	SCALE: 1" = 500'
TRACED BY:	DATE:	
REVISIONS:		

U.S.A.  
CANADA



LEGEND

- Silt Sample Site
- Rock Sample Site
- Anomalous
- Weakly Anomalous

**KENCO EXPLORATIONS (WESTERN) LIMITED**

WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr., 70-85 MINERAL CLAIMS  
WHITEHORSE M.D., YUKON TERRITORY

MOLYBDENUM in SILT & ROCK

DATA BY: K.A.G., A.P., B.R.	N.T.S. 115 K-2 PL. NO. 4
DRAWN BY: J.G.L.	DATE: 2/6/71
TRACED BY:	DATE:
REVISIONS:	SCALE: 1" = 500'

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 67-69 Fr. and 70-85 Mineral Claims, Situated 211 Miles N.W. of Whitehorse (60° 45' N 135° 06' W), in Whitehorse Mining Division, Dated June 25, 1971.

*Handwritten signature and initials*



U.S.A.  
CANADA

LEGEND

- Silt Sample Site
- Rock Sample Site
- Anomalous
- Weekly Anomalous

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr. and 70-85 Mineral Claims, Situated 211 Miles N.W. of Whitehorse (60°45'N 135°06'W), in Whitehorse Mining Division, Dated June 25, 1971.

<b>KENCO EXPLORATIONS (WESTERN) LIMITED</b>	
WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr., 70-85 MINERAL CLAIMS	
WHITEHORSE M.D., YUKON TERRITORY	
COPPER in SILT & ROCK	
DATA BY: K.A.G., A.P., B.R.	N.T.S. 1:5 K-2 P.C. NO. 5
DRAWN BY: J.G.L.	DATE: 2/16/71
TRACED BY:	DATE:
REVISIONS:	SCALE: 1" = 500'

*K.A. Grace P. Eng.*



U. S. A.  
CANADA

**LEGEND**

- Silt Sample Site
- Rock Sample Site
- Anomalous
- Weekly Anomalous

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr. and 70-85 Mineral Claims, Situated 2 1/2 Miles N.W. of Whitehorse (60° 45' N 135° 06' W), in Whitehorse Mining Division, Dated June 25, 1971.

*K.A. Grace*

<b>KENNCO EXPLORATIONS (WESTERN) LIMITED</b>	
WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr., 70-85 MINERAL CLAIMS WHITEHORSE M.D., YUKON TERRITORY	
<b>ZINC in SILT &amp; ROCK</b>	
DATA BY: K.A.G., A.P., B.R.	N.T.S. 115 K-2 PL. NO. 6
DRAWN BY: J.G.L.	DATE: 2/16/71
TRACED BY:	SCALE: 1" = 500'
REVISIONS:	



U.S.A  
CANADA

LEGEND

- Silt Sample Site
- Rock Sample Site
- Anomalous
- Weakly Anomalous

**KENCO EXPLORATIONS (WESTERN) LIMITED**

WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69Fr, 70-85 MINERAL CLAIMS  
WHITEHORSE M.D., YUKON TERRITORY  
LEAD in SILT & ROCK

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 67-69 Fr. and 70-85 Mineral Claims, Situated 2 1/2 Miles N.W. of Whitehorse (60° 45' N 135° 06' W), in Whitehorse Mining Division, Dated June 25, 1971.

*Handwritten signature and initials*

DATA BY: K.A.G., A.P., B.R.	N.T.S. 115 K-2	PL. NO.: 7
DRAWN BY: J.L.L.	DATE: 2/6/71	SCALE: 1" = 500'
TRACED BY:	DATE:	
REVISIONS:		



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CANADA

LEGEND

- Silt Sample Site
- Rock Sample Site
- Anomalous
- Weekly Anomalous

**KENNCO EXPLORATIONS (WESTERN) LIMITED**  
 WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69Fr., 70-85 MINERAL CLAIMS  
 WHITEHORSE M.D., YUKON TERRITORY  
 SILVER IN SILT & ROCK

DATA BY: K.A.G., A.P., B.R.      M.T.S.115 K-2 PL. NO. 8  
 DRAWN BY: J.D.L.      DATE: 2/6/71      SCALE:      1" = 500'  
 TRACED BY:      DATE:      REVISIONS:

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 67-69 Fr. and 70-85 Mineral Claims, Situated 211 Miles N.W. of Whitehorse (60°45'N 135°06'W), in Whitehorse Mining Division, Dated June 25, 1971.

*[Handwritten signature]*



U.S.A.  
CANADA

LEGEND

- Silt Sample Site
- Rock Sample Site
- Anomalous
- Weekly Anomalous

**KENCO EXPLORATIONS (WESTERN) LIMITED**  
 WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69Fr, 70-85 MINERAL CLAIMS  
 WHITEHORSE M.D., YUKON TERRITORY  
 NICKEL in SILT & ROCK

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 67-69 Fr. and 70-85 Mineral Claims, Situated 211 Miles N.W. of Whitehorse (60°45' N. 135°06' W), in Whitehorse Mining Division, Dated June 25, 1971.

*Handwritten signature*

DATA BY: K.A.G., A.P., B.R.	N.T.S. 1:5 K-2	PL. NO.: 9
DRAWN BY: J.G.L.	DATE: 2/16/71	SCALE: 1" = 500'
TRACED BY:	DATE:	
REVISIONS:		



U.S.A.  
CANADA

**LEGEND**

- Silt Sample Site
- Rock Sample Site
- Anomalous
- Weakly Anomalous

**KENNCO EXPLORATIONS (WESTERN) LIMITED**

WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr., 70-85 MINERAL CLAIMS

WHITEHORSE, M.D., YUKON TERRITORY

**COBALT in SILT & ROCK**

DATA BY: K.A.G., S.P., B.R.	DATE: 2/16/71	SCALE: 1" = 500'
DRAWN BY: J.G.L.	DATE: 2/16/71	
TRACED BY:	DATE:	
REVISIONS:		

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 67-69 Fr. and 70-85 Mineral Claims, Situated 211 Miles N.W. of Whitehorse (60°45' N 135°06' W), in Whitehorse Mining Division, Dated June 25, 1971.

*K.A. Grace P. Eng.*



U.S.A.  
CANADA

LEGEND

- Silt Sample Site
- Rock Sample Site
- Anomalous
- Weekly Anomalous

**KENCO EXPLORATIONS (WESTERN) LIMITED**

WRANGELL 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 66-69 Fr., 70-85 MINERAL CLAIMS  
WHITEHORSE M.D., YUKON TERRITORY  
GOLD in SILT & ROCK

To Accompany Representation Work Report by K.A. Grace P. Eng. on the Wrangell 7-22, 29-44, 51, 53, 55, 57, 59, 61, 63, 65, 67-69 Fr. and 70-85 Mineral Claims, Situated 211 Miles N.W. of Whitehorse (60° 45' N 135° 06' W), in Whitehorse Mining Division, Dated June 25, 1971.

*Handwritten signature and initials*

DATA BY: K.A.G., A.P., B.R.	N.T.S. 115 K-2 PL. NO. 11
DRAWN BY: J.G.L.	DATE: 2/6/71
TRACED BY:	DATE:
REVISIONS:	SCALE: 1" = 500'