

# 4879

94D/8W

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REPORT ON THE

CAR 1-64 MINERAL CLAIMS OF  
INTERIOR SYNDICATE  
SUSTUT AREA ( 94 D )  
NORTH CENTRAL BRITISH COLUMBIA.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **4879** A.P. \_\_\_\_\_

REPORT ON THE  
CAR 1-64 MINERAL CLAIMS  
OF  
INTERIOR SYNDICATE  
SUSTUT AREA (94 D)  
NORTH CENTRAL BRITISH COLUMBIA

February 1974  
Vancouver, B.C.

A.H. Dawson  
Geologist

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SUMMARY REPORT  
ON THE  
CAR 1-64 MINERAL CLAIMS  
FOR  
INTERIOR SYNDICATE  
SUSTUT AREA, NORTH CENTRAL, B.C.

1-00 INTRODUCTION

This report includes a summary of a geologic survey conducted over the CAR mineral claims of the Interior Syndicate, located in the Sustut area of north central British Columbia.

The claims were staked by D. Reinke in the spring of 1973, over known minor mineral occurrences or proposed geological extension of sulphide mineralization.

Reconnaissance geological and geochemical examinations of the property were carried out between September 4 and September 6, 1973, by J.C. Needoba and two men of Agilis Engineering Ltd. The area was prospected in detail and were, as well, sampled for assaying purposes.

The purpose of the surveys was to gather sufficient information on the geology and mineralization to determine whether or not the property might support a major exploration program. Time was limited by the presence of inclement weather and approaching snow.

This report was based on the summary report by J.C. Needoba in January, 1974 of the NEL group, PET group, CAR group and ANI group of mineral claims for Interior Syndicate.

2-00 PROPERTY

The property consists of the following 64 contiguous mineral claims which were recorded on April 25, 1973.

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>
CAR 1-64	124065 - 124124

3-00 LOCATION AND ACCESS

The claim group is situated 16 miles SSE of Sustut Lake and 25 miles ENE of Bear Lake. Quenada Creek crosses the north end of the property. Co-ordinates of the centre of the claim group are  $126^{\circ} 16'$  west longitude and  $56^{\circ} 19'$  north latitude. Topographic relief is steep with elevations between 4,500 and 6,000 feet above sea level. Most of the property lies above tree line and rock exposure is excellent.

Regionally the claims are located in that area lying between the Skeena River on the west, and the Finlay River on the east, and immediately north of the 56th parallel. The area is commonly referred to as the "Sustut Area," after the 1970 copper discovery of Falconbridge Nickel Mines Ltd near Sustut Lake.

National Topographic series map sheets (1:250,000) McConnel Creek (94D) and Fort Grahame (94C) cover the area.

Access can be gained from Ft. St. James via Mansen Creek on a maintained gravel road which extends as far north as Johanson Lake. Alternately, the west side of the area

can be reached from Smithers via Takla Lake and the B.C. Railways railroad grade to Bear Lake. As well, during the summer months, scheduled flights are flown between Smithers and Bear Lake, or Prince George and Johanson Lake, via MacKenzie. Access onto the property must be gained by helicopter from the roads or lakes. Several landing strips are located throughout the area for light fixed-wing aircraft.

4-00 PHYSIOGRAPHY

Peaks of the Stikine Mountains rise in excess of 7,000 feet providing ranges of rugged topography divided by what are often wide and relatively flat river valleys at 3,000 to 4,000 feet above sea level.

Vegetation cover is dense along most of the valley floors, while areas lying above 5,000 feet are above tree line.

Rainfall is moderate to heavy during the summer months while winters have characteristically heavy snowfall. Warm summer temperatures last only from late May to early September and exploration must be restricted to those months.

5-00 GEOLOGY5-10 Regional Geology

The Asika group comprise more than 8,500 feet of metamorphosed volcanic and sedimentary strata as represented by rhyolitic lavas, cherts and impure limestone.

The Cache Creek group is represented by argillaceous rocks and grey cherts.

The Takla group comprised of andesitic and basaltic tuffs, coarse agglomerates, and pillow lavas, occupy a broad, northwesterly trending synclinorium greatly complicated by faults and folding.

Scattered dykes, sills, and other ultrabasic bodies cut Cache Creek formations, and in places the lower Takla rocks.

The Omineca Intrusions representing one general period of emplacement cut fossiliferous Lower Jurassic strata in the nearby Takla Map-area, and contributed abundant detritus to upper Lower Cretaceous formations of the adjacent Aiken Lake map-area.

More than 3,000 feet of bedded and banded continental Sustut strata were laid down on an erosion surface that truncated folded Takla and older rocks and Omineca intrusions. The lithology consists mainly of cross-bedded sandstones, conglomerates, and shales.

The youngest rocks are basalts represented by necks, dykes, and lavas. Probable Kastberg porphyries are

cut by a few of the dykes.

#### 5-20 Property Geology

The entire CAR group was mapped and prospected. Soil sampling was not conducted as rock exposure is excellent. The major underlying rock types are argillite, and fine-grained diorite. Rusty weathering, pyritiferous zones commonly occur along the intrusive contact. Elsewhere the rocks contain up to 10% pyrrhotite. Other sulphides were not found. Several samples of the gossanous zones were assayed for copper, silver, gold, and nickel. None were found to be anomalous.

#### 5-30 Mineralization

The CAR group of 64 mineral claims was located over, and west of a silver-lead showing near Carruthers Pass. The occurrence is partially covered by the TIC claims of a Monsieur Cooke. Partial overstaking of these claims by the CAR group in the area of the showing has occurred.

The vein mineralization which occurs on the eastern CAR claims was located and examined. The veins were found to be narrow ( $\frac{1}{4}$ " to 2"), widely separated and discontinuous. Galena and pyrite are the main sulphides in a gangue of quartz.

The vein mineralization on the adjacent TIC claims was not examined as such. It may be that it is the same showing as that which occurs on the CAR claims near the overstaked TIC group.



6-00 CONCLUSION

The widths of the vein mineralization that could be developed would not be economic, although former grab samples have reported high silver values.

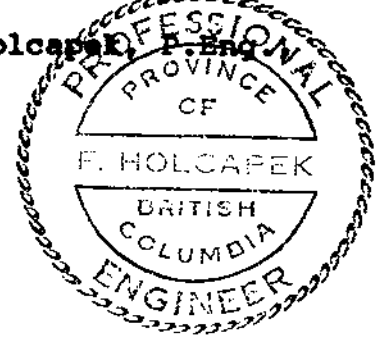
Submitted by:

*A.H. Dawson*

A.H. Dawson, Geologist

*F. Holcapek*

Endorsed by F. Holcapek, P. Eng.



February, 1974  
Vancouver, B.C.

CERTIFICATION

I, ARTHUR HAROLD DAWSON, of Vancouver, British Columbia, do hereby certify that:

1. I am a graduate of Washington State University and hold a B.Sc., (1968) degree in Geology.
2. I have practised as an exploration geologist in British Columbia and Northwest Territories for six years.
3. The work subject of this report was conducted by J.C. Needoba, B.Sc., and a crew under his supervision.
4. I have not visited the property, however I have worked in and am familiar with the geology in the Sustut area.



A.H. Dawson, B.Sc.

Vancouver, B.C.  
February, 1974



Quenada Cr.

50	49	34	33	18	17	2	1
52	51	36	35	20	19	4	3
54	53	38	37	22	21	6	5
56	55	40	39	24	23	8	7
58	57	42	41	26	25	10	9
60	59	44	43	28	27	12	11
62	61	46	45	30	29	14	13
64	63	48	47	32	31	16	15

Overstaked Area

Mines and Geology  
No. **4879 #2**



INTERIOR SYNDICATE  
CAR CLAIM GROUP  
SUSTUT LAKE AREA B.C.

SCALE 1" = 3000 Ft.

DOMINION OF CANADA:  
 PROVINCE OF BRITISH COLUMBIA.  
 To Wit:

**In the Matter of** Geological, Geochemical and  
 claim surveys conducted on the CAR Mineral Claims  
 of Interior Syndicate

I, J. B. Talbot

of 107 - 325 Howe St., Vancouver, B.C. V6C 1Z7

in the Province of British Columbia, do solemnly declare that The following personnel were  
 employed and costs incurred from Sept. 1 to Sept. 12, 1973.

Personnel

F. Holcapek, P. Eng	.6 days @ \$125/day	75.00
J. Needoba, geologist	8.4 " " \$ 80/ "	672.00
R. Turner - assistant	10.2 " " \$54.54/day	556.31
L. Turner - "	10.2 " " \$30.00/day	306.00
F. Zischka "	10.2 " " \$37.00/day	377.40
B. Talbot - drafting	3.12 hrs. @ \$ 8.50/hr.	27.20
		<u>2,013.90</u>

Disbursements

Truck rental Feb & June + mileage and gas	524.18
Air photos	15.45
Supplies - eng. & Camp	94.22
Fixed wing air support	291.74
Gas, oil etc.	7.12
Motels	36.16
Meals	107.02
Assaying soil & rock	220.10
Groceries - 4 men	125.07
Freight	4.33
Telephone	10.04
	<u>1,435.43</u>
10% overhead	143.54
	<u>1,578.97</u>

Total Cost: \$3,592.88

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of  
 the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the *city*  
 of *Vancouver*, in the  
 Province of British Columbia, this *10*  
 day of *January, 1974*, A.D.

*J. B. Talbot*

*John Turner*  
 Commissioner for taking Affidavits for British Columbia or  
 Notary Public in and for the Province of British Columbia.  
 Submitting Recorder

In the Matter of

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**Statutory Declaration**  
(CANADA EVIDENCE ACT)

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**BRITISH COLUMBIA**

INTERIOR SYNDICATE

PET, ANI, CAR & NEL CLAIMS

SUSTUT LAKE AREA BC.

OMINECA MINING DIVISION

**PROPERTY LOCATION MAP**

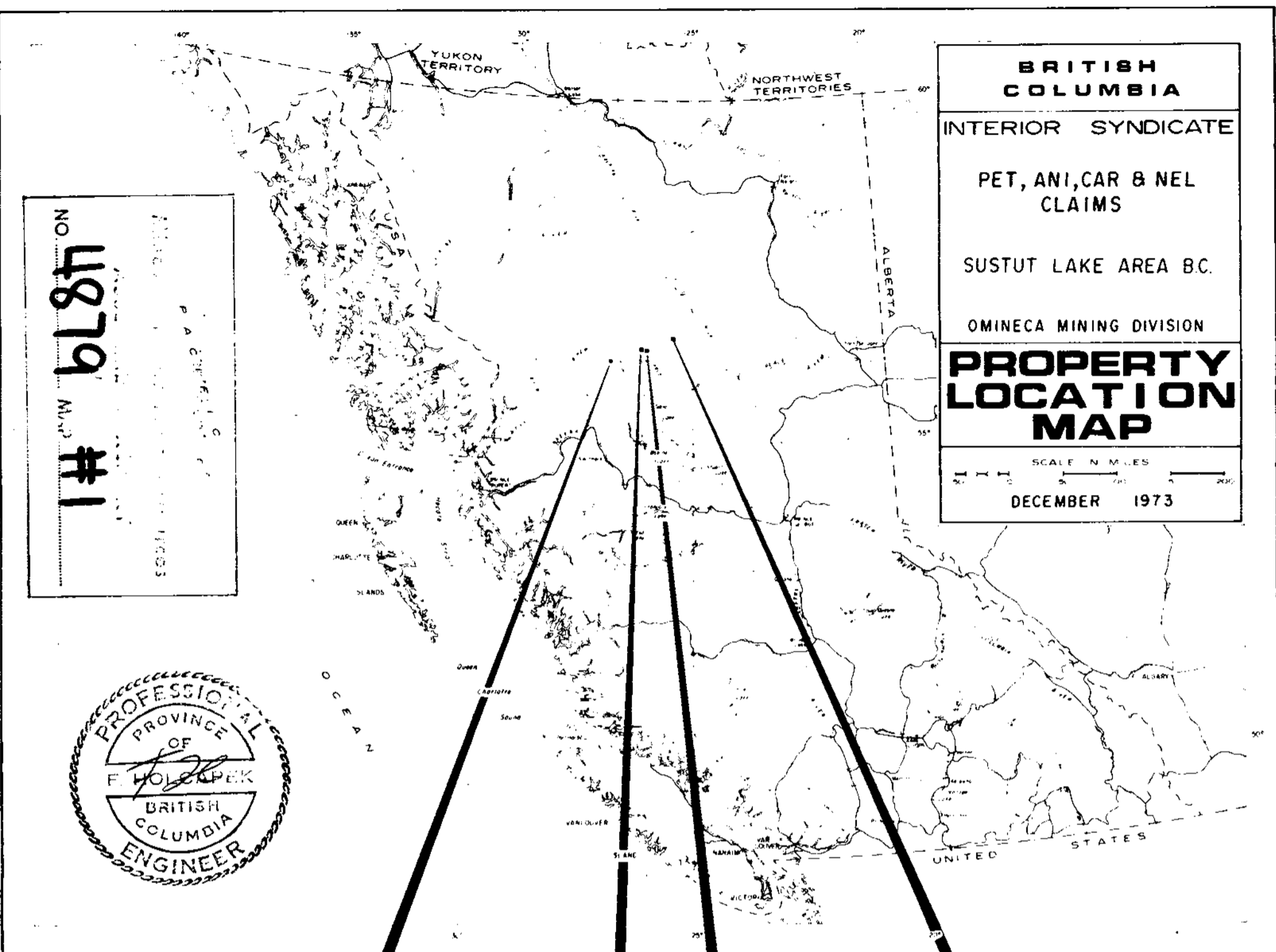
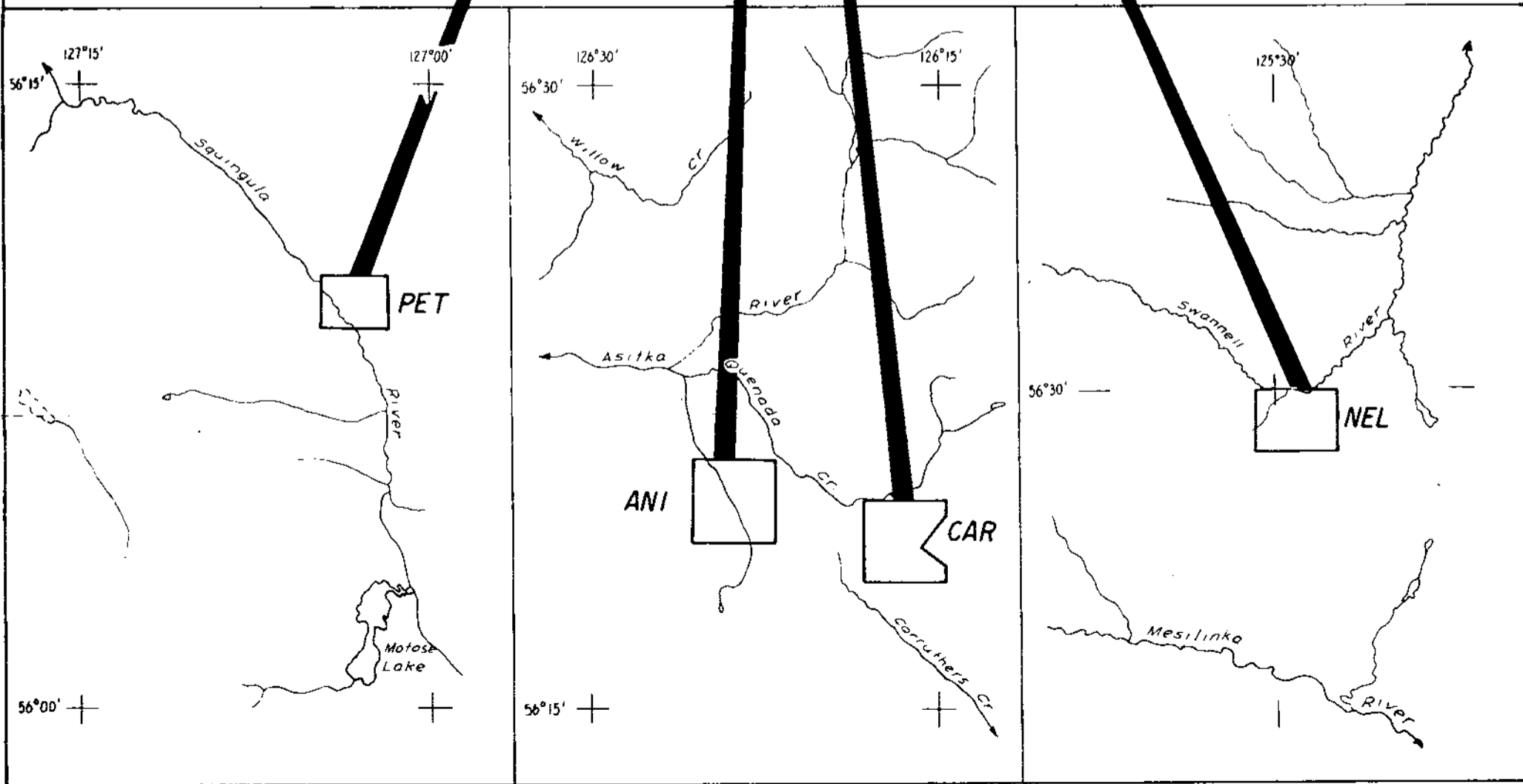
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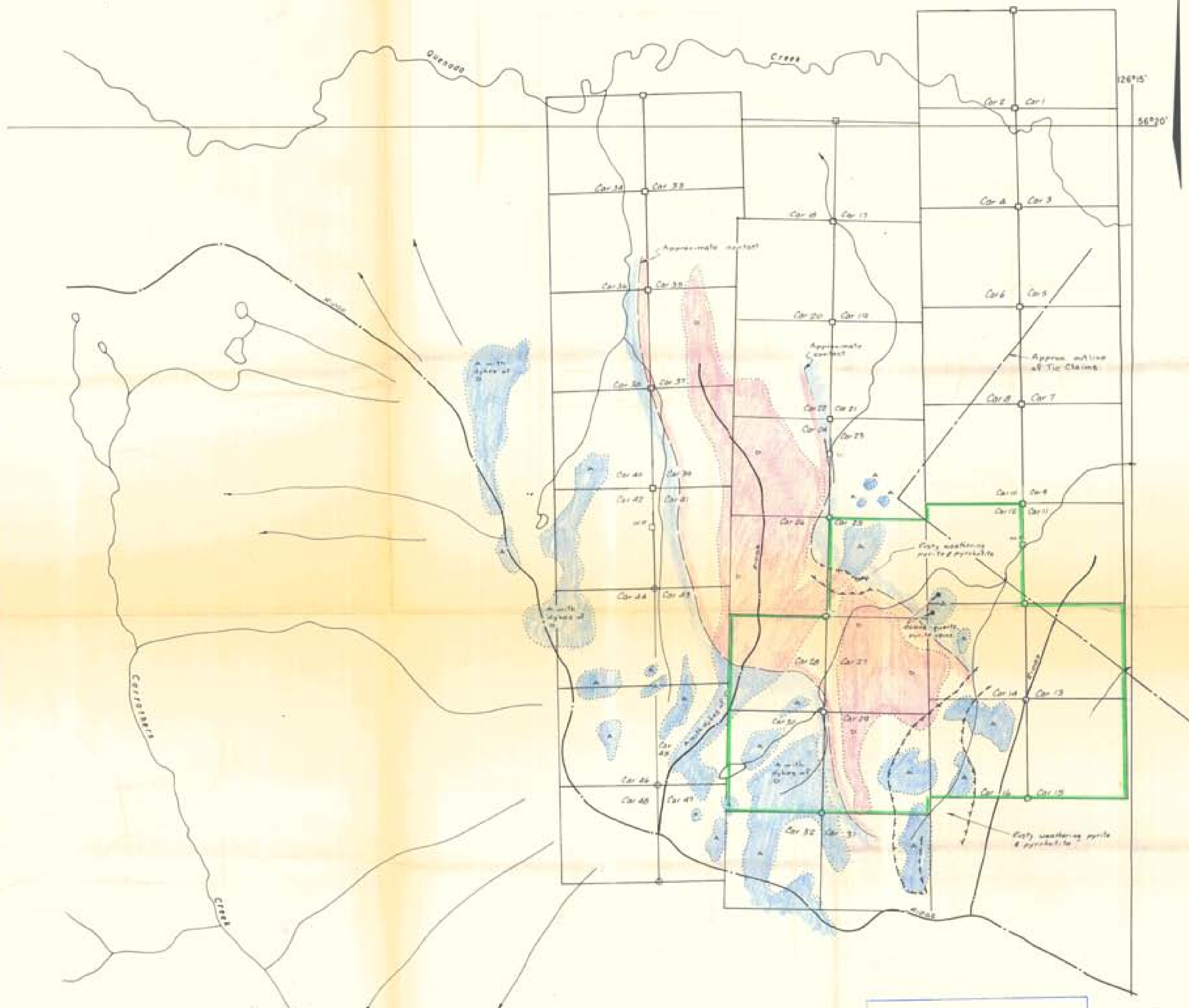
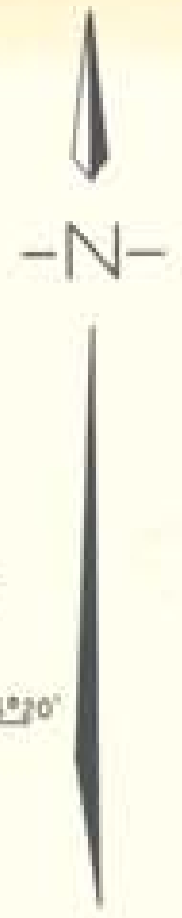
DECEMBER 1973

NO. 4879

#1

PA. CO. 11003





Department of  
Mines and Technical Surveys  
NO. **4879 #3**



- Legend:
- Argillite, siltstone & shale
  - Diorite
  - Located claim post
  - Witnessed post
  - Approximate corner of witnessed claims

**INTERIOR SYNDICATE  
CAR CLAIMS-SUSTUT LAKE AREA**  
OMINECA MINING DIVISION B.C.

**COMPILATION MAP**

SCALE IN FEET  
0 1000 2000 3000

MILLS ENGINEERING LTD.      DECEMBER 1973

**4879M3**