

GEOLOGICAL REPORT

GLACIER GROUP AND XX FR.

RECORD NO. 689(9), 730(9) to 739(9); RECORD NO. 729(9)

STEWART AREA, BRITISH COLUMBIA

SKEENA MINING DIVISION

NTS 104 B/1E

lat: $56^{\circ}05'N$ long: $130^{\circ}03'W$

Owner and Operator

Ocean Home Exploration Ltd.
Box 3174, Station B
Calgary, Alberta T2M 4L7

Contractors and Authors

Dianne and Ulrich Kretschmar
R.R. # 1
Severn Bridge, Ont.
P2E 1N0

Date submitted:

5 Sept. 1979

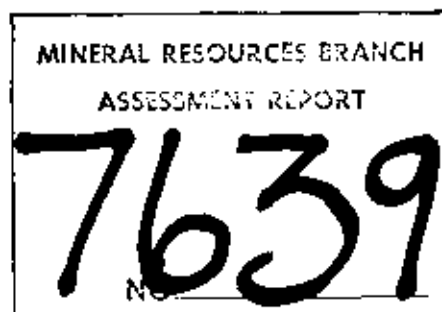


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INTRODUCTION

The Glacier claim group consists of 11 Reverted Crown Granted mineral claims with an area of 199.13 hectares. The property is bounded on the south and east by Azure Resources' New Indian property and on the west by the Salmon glacier, the Salmon R. and the Alaska-B.C. border (Fig. 2). The EX Fraction (3.53 hectares) straddles the Granduc Road south of Indian Lake. The claims are about 25 km. north of Stewart (Fig. 1). Access is via the Granduc Rd.

The Glacier group is on the east side of a U-shaped valley formed by the Salmon Glacier. The terrain is very steep and heavily vegetated with hemlock, spruce and underbrush which consists mainly of blueberry bushes and devil's club.

Current owner and operator is Ocean Home Exploration Co. of Calgary. Economic assessment of the properties is being carried out with the first step consisting of geological mapping at a scale of 1:12,000 and assay sampling of mineral occurrences.

LAND

The Glacier group of 11 Reverted Crown Granted mineral claims consists of the following lots, as shown on Fig. 2.

<u>Record No</u>	<u>Lot</u>	<u>Claim Name</u>	<u>Hectares</u>
698(9)	1853	H.E. Fr.	5.18
	1854	Bill Fr.	18.48
	4117	X Fr.	0.69
730(9)	1849	Glacier	18.78
731(9)	1850	Glacier No. 1	14.56
732(9)	1851	Glacier No. 2	8.98
733(9)	1852	Glacier No. 4	6.94
	1855	Red Rock	11.48
	1856	Glacier End Fr.	6.47
734(9)	2313	Boundary No. 4	20.90
735(9)	2314	Boundary No. 1	20.67
736(9)	3220	Knob Hill	20.90
737(9)	5521	Boston Fr.	16.52
738(9)	5522	Bean Fr.	8.54
739(9)	5523	Boston Fr. No. 2	20.04
-----			-----
11 claims			159.13
Not contiguous			
729(9)	4128	XX Fraction	3.53

One additional Reverted Crown Granted mineral claim, the XX Fr., is not contiguous with the group. The claims were recorded on 5 September, 1978.

GEOLOGY

General

Fig. 3 is a reconnaissance geological map of the Glacier Group, while Fig. 4 shows the geology of the XX Fr. claim. The properties are entirely underlain by volcanic rocks of the Baar R. formation of the Hazelton Group. The Hazelton Group is generally considered to be upper Jurassic in age in the type Hazelton area (R.V. Richards, 1974, Hazelton map area, Geological Survey of Canada, Annual Report, Sect.A) but in the Stewart area it may be upper Triassic, since the Texas Creek granodiorite intrusion has been dated at about 200 m.y. (J.G. Smith 1977, Geology of the Ketchikan D-1 and Bradfield Canal A-1 quadrangles, Southeastern Alaska, U.S.G.S. Bulletin 1425).

In general, units appear to trend northwesterly and dip steeply. A major fault parallel to Myrtle Creek has been postulated by Grove (D.C. Min. of Mines and Petr. Resources, Bull. 58, 1971) but we could discern no offset of lithologies in the lower part of the creek. A major fault zone with unknown offset trends generally E-W. The zone was mapped in one location only, where it crosses the Granduc Rd. south of Myrtle Ck.

The main intrusive is the Triassic (200 m.y.) Texas Creek Granodiorite. Andesite dikes, diorite sills or dikes and Tertiary (50 m.y.) Hydar granodiorite dikes were also mapped.

Metamorphic grade is green hist facies.

Lithology

1) Hazelton Group Volcanics and Sediments.

Unit 1

Rocks of Unit 1 are green tuffs and flows of andesitic composition. Locally feldspar or dark green hornblende crystals are visible. In places, the andesitic tuffs are calcareous.

Unit 2

Rocks of Unit 2 are massive porphyritic andesite flows or sills. They differ from Unit 1 by the presence of large (up to 2 to 3 cm in diameter) sanidine or orthoclase crystals. The feldspar phenocrysts are euhedral to subhedral, zoned and commonly contain chloritic inclusions. Other, smaller phenocrysts may be rounded quartz, euhedral hornblende and plagioclase. The quartz phenocrysts are also considered diagnostic of Unit 2, whereas hornblende and plagioclase may occur in either Unit 1 or 2. Unit 2a is fresh unaltered porphyritic andesite. Unit 2b is siliceous carbonate-altered andesite, sometimes containing relict sanidine and/or quartz phenocrysts. The altered rock weathers orange-brown and shows a brittle fracture.

Unit 3

This is a grey, pyritic, felsic rock mapped as dacite fragmentals. Locally it may be tuffaceous but generally it is more massive with a vaguely fragmental texture. Feldspar crystals are visible in places.

Unit 4

These are mixed sediments and volcanoclastics. Unit 4a is a thinly bedded, pyritic black shaley siltstone which probably has a significant tuffaceous component. Unit 4b is a well-bedded cherty mudstone or tuffite. It is light greenish grey in colour and is generally sericitic and pyritic.

2) Intrusive Rocks

Unit 5

Texas Creek Granodiorite, Unit 5a, is a hornblende granodiorite with potassium feldspar phenocrysts in a medium-grained, equigranular groundmass. Unit 5b is a chloritic, more mafic border facies or altered phase of the intrusion.

Unit 6

Diorite dikes and/or sills are massive and fine grained.

Unit 7

Andesite dikes are very fine grained, green dense and hard.

Unit Th

These are Tertiary (about 50 m.y.) granodiorite dikes emanating from the Hyder Quartz Monzonite pluton. The main constituents are feldspar, hornblende and quartz. The rock is leucocratic, medium to coarse grained and equigranular.

MINERALIZATION

There are three main mineralized areas:

1. A gold-bearing quartz vein on the Glacier claims has been described in the literature. It could not be located on the ground.

A description from B.C. Minister of Mines Report, 1920, is as follows:

" a quartz vein 3 to 4 feet wide striking 155/55S is exposed along a shallow gulch. Mineralization consists of pyrite and minor chalcopyrite. Up to 11.6 oz/t Au and 70-80 oz/t Ag have been reported."

2. At sample location 79-011, a flat, cross-cutting drusy quartz-carbonate breccia vein in black shaley siltstone contains pods of massive galena, sphalerite and tetrahedrite that are up to 15 cm thick. The sphalerite is honey coloured.

3. At sample location 79-1014, a flat drusy quartz-sphalerite-chalcopyrite-tetrahedrite-galena vein, 1.5 m. thick cuts across a diorite dike and the host porphyritic andesite.

In addition, the black shaley siltstones are pyritic and rusty weathering and contain scattered occurrences of sphalerite-galena.

Nine assay, silt, soil and rock samples were collected, but results were not received in time to be included in this report.

RECOMMENDATIONS

1. Attempt to locate the gold-bearing quartz vein described in the literature.
2. Map the property at a scale of 1:5,000.

STATEMENT OF EXPENDITURES ----- GLACIER GROUP

1) <u>Contract Fees:</u>	
U. Kretschmar - 3 days at \$127.71 per day - July 10, 13 and Sept. 2.	\$383.13
D. Kretschmar - 6 days at \$127.71 per day - July 9, 13, 14, 16; Aug. 4, Sept. 2.	766.26
2) <u>Food and Accommodation</u> , including wages of J. Patricia Helliwell, cook - 9 man days at \$49.18 per day	442.62
3) <u>Transportation</u> : 4 WD truck rental, fuel - 9 man days at \$28.03 per man day	252.27
4) <u>Supplies</u> , including maps and air photos, tools: - 9 man days at \$12.12 per day	109.08
5) <u>Communications</u> , including radio rentals: - 9 man days at \$9.76 per man day	87.84
	<hr/>
TOTAL EXPENDITURES	\$2041.20

Dianne Kretschmar

Dianne Kretschmar

STATEMENT OF EXPENDITURES ----- XX FRACTION

1) <u>Contract Fees:</u>	
U. Kretschmar - 1½ days at \$ 127.71 per day - July 16, Sept. 3 (half day)	\$191.57
D. Kretschmar - ½ day at \$127.71 per day - Sept. 3	63.86
2) <u>Food and Accommodation</u> , including wages of J. Patricia Helliwell, cook	
- 2 man days at \$ 49.18 per day	98.36
3) <u>Transportation:</u> 4WD truck rental, fuel	
- 2 man days at \$28.03 per day	56.06
4) <u>Supplies</u> , including maps and air photos, tools:	
- 2 man days at \$12.12 per day	24.24
5) <u>Communications</u> , including radio rentals:	
- 2 man days at \$9.76 per man day	19.52
	<hr/>
TOTAL EXPENDITURES	\$453.61

Dianne Kretschmar

Dianne Kretschmar

STATEMENT OF QUALIFICATIONS

I, Dianne Kretschmar of R.R. # 1, Severn Bridge, Ont. POB 1N0

certify that:

1. I am a mining exploration geologist and Fellow of the Geological Association of Canada.
2. I am a graduate of McMaster University (B.Sc. Honors in Geology and Chemistry, 1967).
3. I have worked as an exploration geologist in Canada and Alaska for Cominco Ltd.; Watts, Griffis and McQuat Ltd.; Resource Associates of Alaska and others.
4. I worked on the Glacier property and XX Fraction during July, August and September, 1979.

Dianne Kretschmar

Dianne Kretschmar
Geologist

August 31, 1979
Premier, B.C.

STATEMENT OF QUALIFICATIONS

I, Ulrich Kretschmar, of R.R. # 1, Severn Bridge, Ont. POE 1N0
certify that:

1. I am a mining exploration geologist and Fellow of the Geological Association of Canada.
2. I am a graduate of McMaster University (B.Sc. 1966, M.Sc. 1968), McGill University and University of Toronto (Ph.D. 1973)
3. I have worked as an exploration geologist in Canada and Alaska for Cominco Ltd.; Watts, Griffis and McQuat Ltd.; Resource Associates of Alaska and others.
4. I worked on the Glacier property and XX Fr. during July and September, 1979.



Ulrich Kretschmar, Ph.D.

August 31, 1979
Premier, B.C.

Map from NTS sheets 103P + 103O,
104A and 104B

Drafted by : DKK 30 Aug. 1979

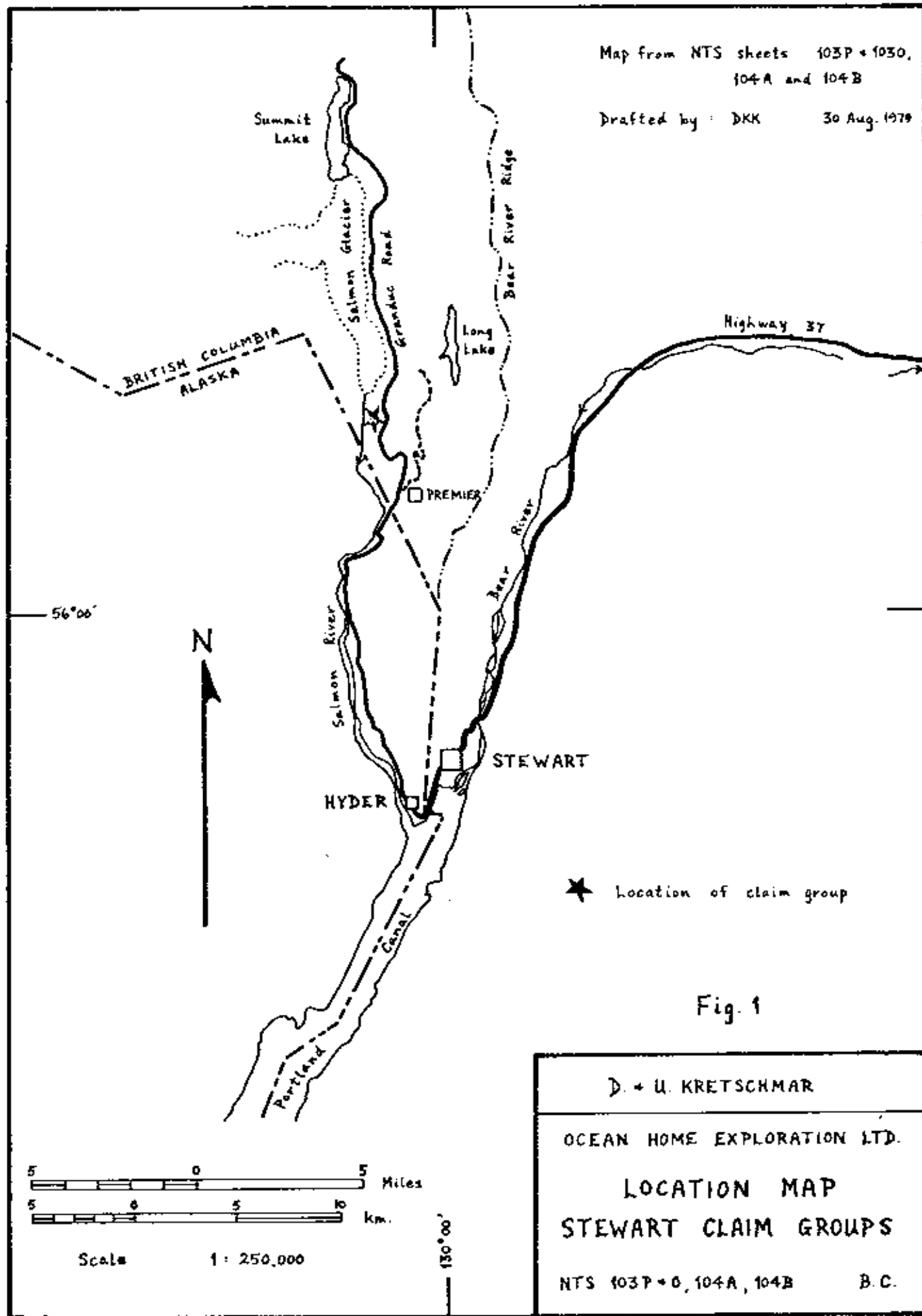


Fig. 1

D. + U. KRETSCHMAR

OCEAN HOME EXPLORATION LTD.

LOCATION MAP
STEWART CLAIM GROUPS

NTS 103P + 0, 104A, 104B B.C.

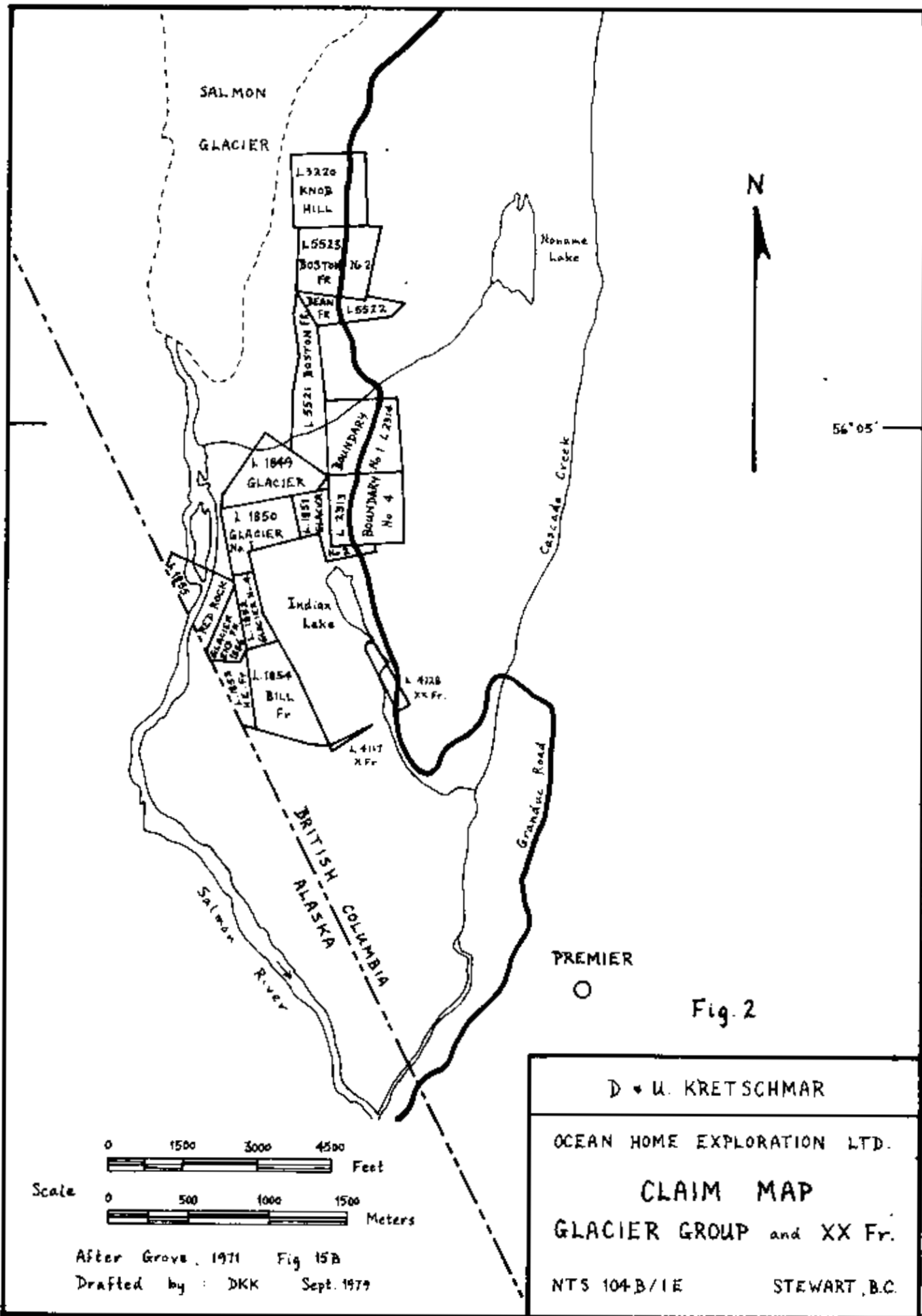
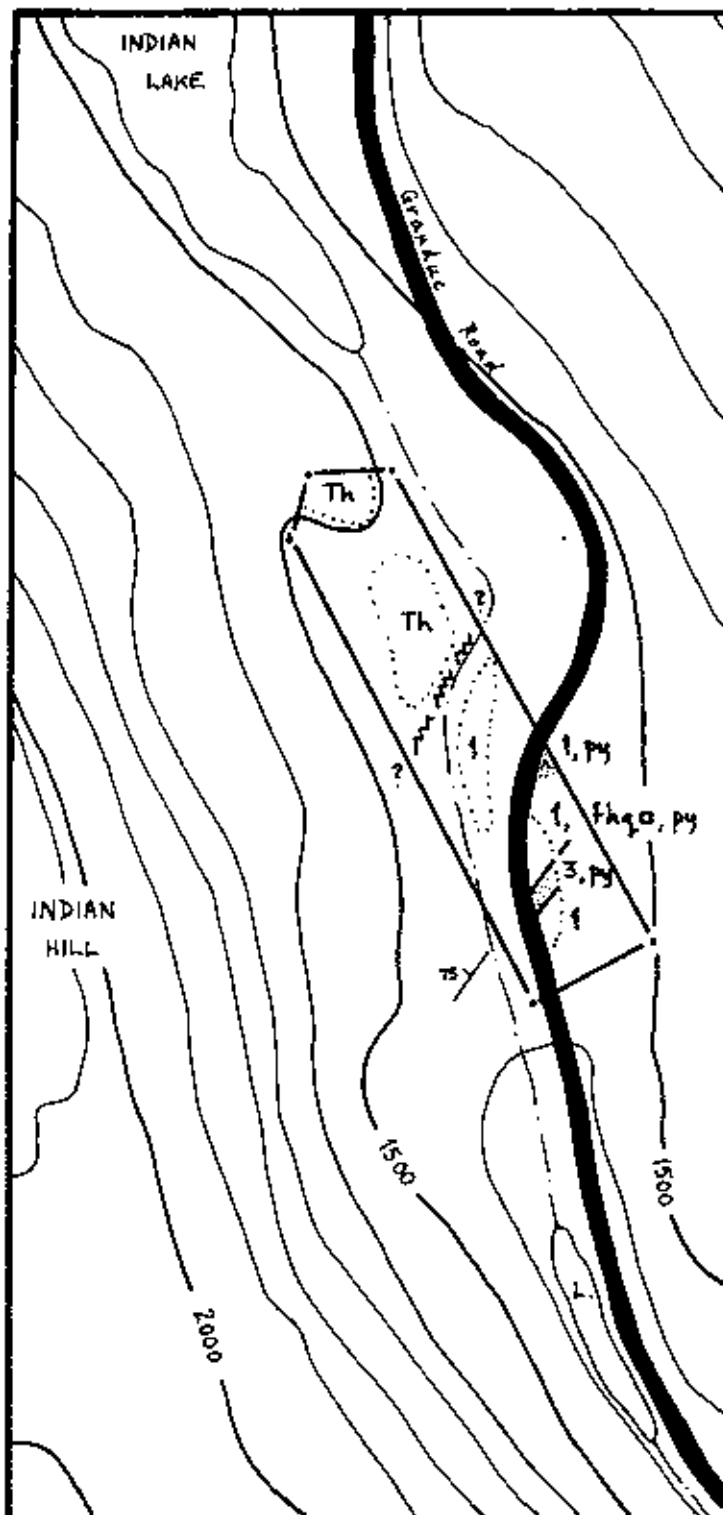


Fig. 2

D • U. KRETSCHMAR
 OCEAN HOME EXPLORATION LTD.
CLAIM MAP
 GLACIER GROUP and XX Fr.
 NTS 104B/1E STEWART, B.C.

After Grove, 1971 Fig 15B
 Drafted by : DKK Sept. 1979



LEGEND

INTRUSIVES

Th Tertiary Hyder granodiorite dike

HAZELTON GROUP VOLCANICS

3 Felsic tuff, pyritic

1 Green andesitic fragmentals, possibly some flows. Mainly tuff

--- Contact

~ ~ ~ Fault

75° Strike + dip of bedding

○ Area of outcrop

○ tuff size fragmental

△ lapilli size fragmental

□ phenocrysts

q quartz

f feldspar

h hornblende

py pyrite

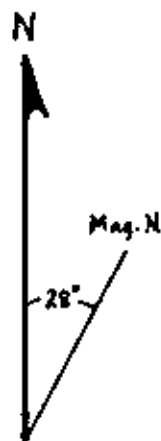
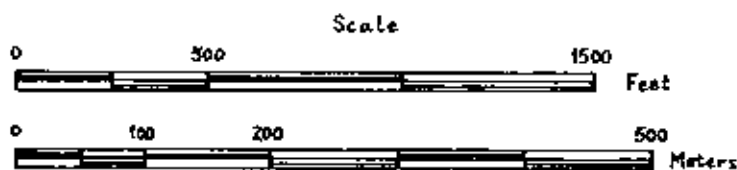


Fig. 4



Contour interval 100 ft.

Geology by: JK

Drafting by: DKK Sept. 1979

Base map from photoenlargement of NTS 104B/1E
(Prelim. 1:31,680)

D. + U. KRETSCHMAR

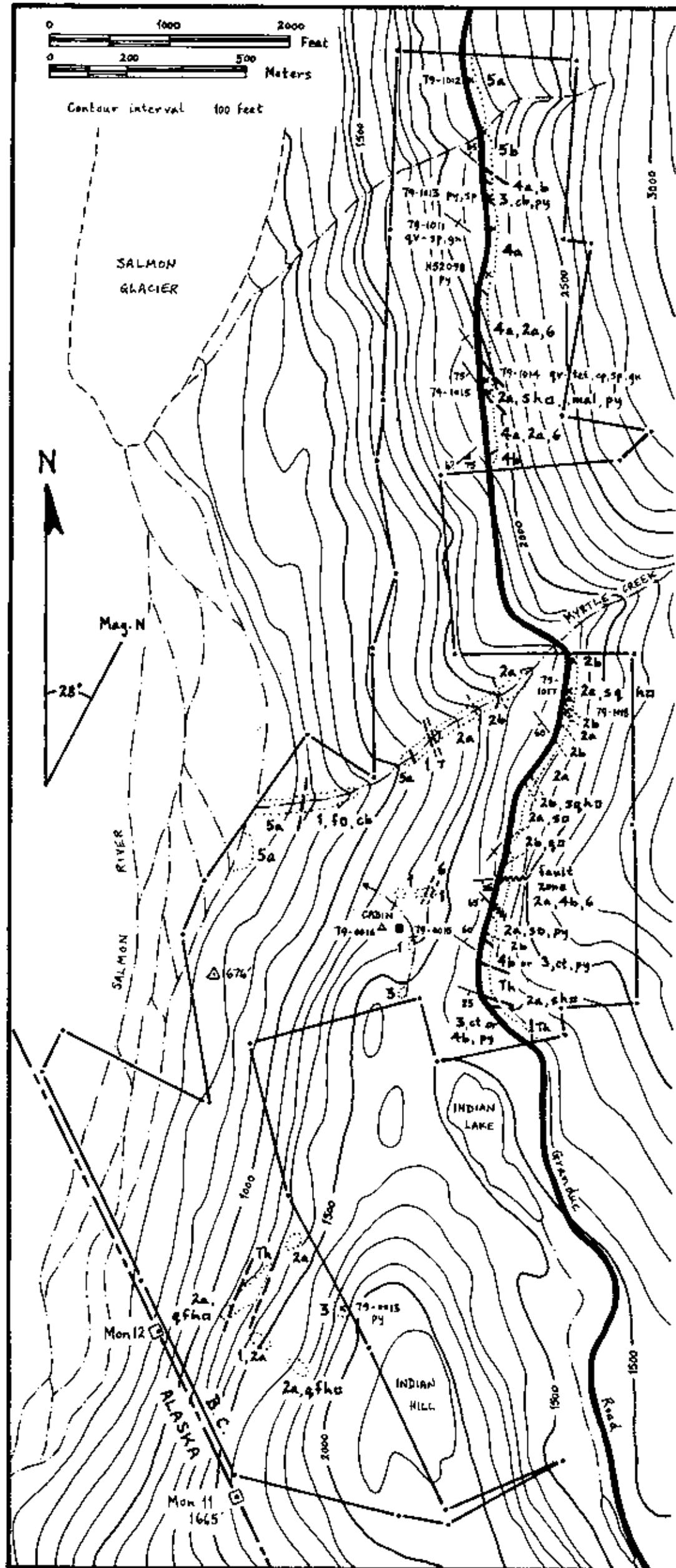
OCEAN HOME EXPLORATION LTD.

GEOLOGICAL MAP

XX Fr.

NTS 104B/1E

STEWART, B.C.



LEGEND

INTRUSIVES

- Th Tertiary Hyder granodiorite dike
- 7 Andesite dike
- 6 Diorite dike and/or ? sill
- 5 Texas Creek granodiorite
- 5a - equigranular hornblende granodiorite
- 5b chloritic, altered border

HAZELTON GROUP VOLCANICS and SEDIMENTS

- 4 Mixed sediments and volcanoclastics
- 4a - black shaley siltstone, probably some tuffaceous component
- 4b - well bedded mudstone or tuffite, cherty, sericitic, light greenish color
- 3 Dacite fragmentals
- 2 Porphyritic andesite flows or sills
- 2a - fresh porphyritic andesite
- 2b - carbonate-silica altered zones
- 1 Green andesitic fragmentals, possibly some flows. Mainly tuff.

- Contact
- ~~~~~ Fault
- 60° Strike and dip of bedding
- 40° Strike and dip of foliation
- Area of outcrop
- △ breccia
- ∇ vein
- phenocrysts
- q quartz
- f feldspar
- h hornblende
- s sanidine
- ct cherty
- cb calcite, calcareous
- py pyrite
- sp sphalerite
- gn galena
- cp chalcopyrite
- tet tetrahedrite
- mal malachite

Sample location and number
 - 79-0001 stream sediment
 △ soil x rock

MINERAL RESOURCES BRANCH
 ANTIMONY DIVISION
7639
 NO

Fig. 3

Geology by: DKX,
 IK

Drafted by: DKX
 Sept. 1979

Base map from
 photoenlargements
 of NTS 104 B/1E
 (Prelim 1 31,680)

D. & U. KRETSCHMAR

OCEAN HOME EXPLORATION LTD.

PRELIMINARY GEOLOGICAL MAP
 GLACIER GROUP

NTS 104 B/1E

STEWART, B.C.