



CORPORATION FALCONBRIDGE COPPER

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Don
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82F/7
FILE

January 23, 1984

Mr. D. F. Porteous
Wagner Mines Ltd. (N.P.L.)
808 West Gore Street
Nelson, B. C.
V1L 3H5

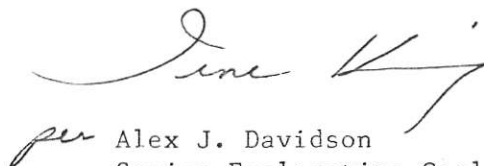
Dear Mr. Porteous:

We would like to thank you very much for bringing this information on your Don claims to our attention, unfortunately other priorities and projects prevent us from taking an active interest in your property.

We are returning herewith your reports and maps which you lent to us, we hope you find them to be in order.

Thank you for considering Corporation Falconbridge Copper.

Yours truly,


per Alex J. Davidson
Senior Exploration Geologist

AJD/ik

OCT 27 1983

808 West Gore Street,
Nelson, B.C. V1L 3H5

October 24, 1983

Mr. Alex J. Davidson,
Corporation Falconbridge Copper,
6415 - 64th Street,
Delta, B.C. V4K 4E2.

Dear Mr. Davidson;

Thank you for your letter of September 27th.

As you mentioned that you might be taking an interest in the Kootenay area in 1984 I am enclosing two reports prepared by Minequest Exploration Associates Ltd on the Don claims near Tye, B.C. for Mr. Wayne Smith of Kelowna, B.C. and Wagner Mines Ltd (N.P.L.).

If you wish to discuss any part of these reports with Mr. Robert Longe of Minequest please contact him at 311 Water Street, Vancouver or by phone at 669-2251.

Thank you.

Yours truly,



D.F. Porteous,
Secretary,
Wagner Mines Ltd (N.P.L.)

MineQuest
Report #1A

THE DON CLAIMS

A Report

prepared for

Mr. Wayne Smith,
owner of the claims

by

R.V. Longe

of

MineQuest Exploration Associates Ltd.

March, 1981

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ILLUSTRATIONS

- Figure 1. Location Map (Plan 171)
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APPENDICES

- Appendix 1 Assay Certificates

1. Introduction

The writer examined the DON claims accompanied by the owner, Mr. Wayne Smith of Kelowna, on October 8, 1980. This report compiles the comparatively small amount of information available on the property and area and incorporates the writer's opinion and recommendations concerning further exploration. An earlier version of this report was prepared in November, 1980 at the request of Mr. David Elliot of Walwyn Stodgell Cochran Murray Ltd. and Mr. Wayne Smith. Since then, an induced potential survey has been carried out.

2. Claim Data

Name	DON claim
No. of units	18
Record number	1220
Owner	W. Smith, Kelowna, B.C.
Recorded	September, 1979
Previous names	Cultus Creek (Min. file no. 082 FSE 082) Humdinger & Hunkadora (Min. file no. 082 FSE 056)

3. Location and Access

Location	In southern British Columbia on Cultus Creek 30km east of Salmo.
	NTS 82/F/7
Access	Latitude-Longitude 49 17'N - 116 54'W By 25km of logging road from Highway 6 10km N of Salmo.
Topography	Steep hillsides with mature timber, logged in places.

4. History and Previous Work

In 1926 claims known as the "Cultus Creek Group" were located over what appears to be the divide in the pass joining Cultus and Next Creeks, the area now covered by the DON claims. Trenching is reported (B.C.M.M.A.R., 1936 p.284) to have indicated mineralized rock some 40 - 50 feet thick.

In 1927 a property named "Humdinger & Hunkadora" occupied ground believed to be nearby or possibly coincident with ground covered by the Cultus Creek Group. Copper is reported (B.C.M.M.A.R., 1927, P.326) to have been discovered in the course of building the trail between Cultus Creek and Next Creek (formerly called Canyon Creek). The showing of copper with associated values of silver and gold is described as being 7 feet wide.

More recently, in 1968, claims known as the PEANUT were located in the vicinity of what is now the DON claims but, on the basis of the type of rocks described (granite), it is thought that the workings in the PEANUT claims lie to the east of the copper occurrences on the DON claims.

5. Neighbouring Mineral Properties

Some 3km to the north of the centre of the Don claims lies the Iva Fern group of crown grants on which a considerable amount of work was carried out, first in the period 1917-1919, and then in 1928 and 1937. Because the Iva Fern lies approximately on strike with the copper bearing rocks of the DON claims and because descriptions of rocks in the Iva Fern match to some extent rocks seen in the Don claims, it is necessary to consider the possibility that the two properties lie in the same belt of mineralized rock.

Trenching on the Iva Fern crown grants between 1918 and 1919 amounted to some 250 feet. Sampling indicates the ore to be lead rich with a low silver to lead ratio and a width of 1 to 6 feet.

6. The Examination

The writer, accompanied by the owner Mr. Wayne Smith, made a brief examination of the DON claims on October 8, 1980. Boulders of "high grade" chalcopryrite-bearing carbonate rocks in the vicinity of the old workings near the centre of the claims were examined together with a sequence of sedimentary and volcanic rocks associated with scattered copper occurrences near the north end of the claim block. Five samples, four from the north end, one from the high grade boulders, were collected for assay and possible thin section study.

7. Geology

No geological map of the area has been published since GSC memoir 228 (1941) in which rocks in the vicinity of the present DON claims are referred to as the Horsethief Creek series, a subdivision of the Windermere Group, consisting of argillaceous quartzites limestones, arkoses and pebble conglomerates.

Recent work, (GSC Open File 514) assigns the rocks to a "Unit 6" which includes the Horsethief Creek series but embodies a revised subdivision of the Windermere. Unit 6 consists of:

Three Sisters Formation
Horsethief Creek Group
Monk Formation

Immediately to the south a continuation of the same stratigraphic units has been studied in greater detail by Glover and Price (1976), who subdivide the Windermere as follows:

Three Sisters Formation
Monk Formation
Irene Volcanic Formation
Toby Foundation

From description by Glover and Price the rocks on the DON claims can be tentatively assigned to the Monk Formation although there exists a slight possibility that the underlying Purcel rocks (the Mt. Nelson Formation or Dutch Creek Formation) may be the copper bearing rocks.

At this stage all that can be said with reasonable certainty is that sedimentary and volcanic rocks covered by the DON claims probably belong to the Windermere Super Group of Hadrynian Age, that they strike slightly west of north and dip steeply to the west.

8. Mineralization

Near the old workings on the saddle of the pass connecting Cultus and Next Creeks a number of boulders of copper and silver-bearing sediments with a grade in excess of 1% Cu (Sample - 05 in Table below), can be found both above and below the road. Chalcopyrite occurs as blebs and as fine grained disseminations throughout these rocks, none of which were seen in outcrop. The source remains unknown but may be presumed to be close. The presence of old mining equipment indicates proximity to old workings. The rocks and contained minerals are similar (except of lower grade) to what is described in the 1926 report in the Cultus Property and the 1927 report on the Humdinger and Hunkadora properties.

At the north end of the claims, apparently on strike with the occurrence of copper-bearing carbonate rich rocks, sparse showings of copper can be found. Chalcopyrite, pyrite and possibly chalcocite (unconfirmed) occur in siliceous carbonates, tuffaceous sediments, and in remobilized carbonate-rich rocks forming a type of sedimentary dyke. Copper grades (-01 to 04 below) are mostly lean but silver values are surprisingly high.

<u>Sample Number</u>	<u>% Cu</u>	<u>% Co</u>	<u>oz./ Ton Ag</u>	<u>oz./ Ton Au</u>
801008 - 01	0.11	<0.001	0.26	<0.003
801008 - 02	0.02	0.006	0.20	<0.003
801008 - 03	0.84	0.001	0.46	<0.003
801008 - 04	0.15	<0.001	0.10	<0.003
801008 - 05	1.20	0.024	0.84	<0.003

9. Geophysical Survey

An induced potential (I.P) survey was carried out over four line kilometres in the centre of the DON claims during February 1981. The survey indicated two strike-trending anomalies, one of them in the vicinity of the boulders, the other some 700 metres to the west. A report is awaited. Meantime, the writer has no hesitation on recommending trenching of these anomalies.

10. Discussion

The merit of the property lies in the possibility that the copper-bearing boulders come from an important type of bedded copper deposit found elsewhere in Precambrian rocks. The appearance of the rock forming the copper rich boulders, the presence of scattered occurrences of copper (albeit of very low grade) 2km on strike to the north, and the presence 3km to the north (on the Iva Fern property) of sediment-hosted lead and copper, favour this interpretation. This type of deposit can form a substantial tonnage of moderate grade copper. Lead may be associated but silver and gold are subordinate.

However the Don claims, because of the scant amount of information available and because of the absence of an outcropping exposure of the mineralized rock, remains a raw prospect. The chance of making a mis-interpretation of such a situation is high. The first step, is to ascertain that the copper occurrences observed on the DON claims are stratigraphically controlled. The IP survey, in identifying two strike-trending anomalies, has gone some way towards supporting the concept of stratigraphic control.

Ground acquisition is now an important step. This should include staking north and south of the Don claims (Figure 2) together with optioning of the Iva Fern crown grants.

11. Conclusions

1. Copper-bearing boulders observed near the centre of the DON claims, although not observed in the outcrop, are believed to be locally derived.
2. The two anomalous zones indicated by the I.P. Survey justify excavation as possible sources of the copper-bearing boulders.
3. Sparse copper occurrences in a similar suite of rocks two kilometres to the north, together with the strike-orientation of the I.P. anomalies, indicate a likelihood that the occurrences are stratigraphically controlled.
4. The Iva Fern property (not seen by the writer) may belong to the same belt of rocks.
5. Because the better copper-bearing rocks have not been seen in outcrop, some uncertainty exists about the nature of the mineralization. Nevertheless, there is an acceptable chance that these copper occurrences may belong to an important class of sediment-hosted copper deposits: those associated with carbonates, sandstones and conglomerates of Precambrian age.
6. Despite the uncertainties, the favourable features of the property and the surrounding area justify the exploration programme proposed on the following pages.

12. Recommendations

The writer recommends that the following two-stage programme be adopted. The first stage would take place prior to the 1981 field season, the second during May and June 1981. A first decision point would occur at the end of Stage 2 after the expenditure of an estimated \$135,000.

Stage 1

1. Staking of 60 claim units to protect the on-strike extensions of copper occurrences on the DON claims. See Figure 2.
2. Optioning of the crown grants of the Iva Fern group if available on reasonable terms.
3. Study of air photographs and satellite images to define the extensions of the belt beyond what can reasonably be inferred at present. Further staking could be recommended after results of this study.

Stage 2

A programme of trenching, geological mapping, and geochemical sampling in the early part of the 1981 field season to determine the nature and extent of the copper occurrences on the DON and adjacent claims.

13. Cost EstimatePre-field season

Land Acquisition (Includes staking 60 units as recommended) and option payments (cost unknown) of the Iva Fern crown grants	\$20,000.00	
Air Photographic Study	1,600.00	
Petrographic Study	500.00	
Supplies: maps, photographs, reprographics	500.00	
Override on disbursements at 5%	1,000.00	
Fees: technical, supervisory and administrative	<u>4,000.00</u>	
TOTAL	\$27,600.00	\$27,600.00

Field Program - May and June, 1981

<u>Fees:</u> 30 days at \$400	12,000.00
20 days at \$200	4,000.00
<u>Wages:</u> Geologist, 2 months	4,000.00
Assistant, 2 months	3,000.00
Three samplers, 1 month	4,000.00

Disbursements:

Food and accommodation 8 mos. x 30 days x \$45/day	10,800.00
Truck Rental and Fuel: 2 months	1,800.00
Helicopter: 0 hrs x \$430 per hour	21,500.00
Camp Equipment Rental	1,000.00
Bulldozing	7,000.00

Disbursements: (cont'd)

Geochemical analysis:

1000 samples at \$10/sample	\$10,000.00	
Drafting and Reprographics	4,000.00	
Supplies	2,500.00	

Overrides

Override on temporary staff (50%)	5,500.00	
Override on disbursements (5%)	<u>2,500.00</u>	
	93,600.00	93,600.00
		121,200.00
Contingency 10%		<u>12,100.00</u>
		133,300.00
Say		\$ 135,000.00

Field Program August-September 1981

This stage would be dependent upon encouragement in May and June but if this were forthcoming, a program for the latter part of the field season (August and September) would be recommended and would include the following:

- Land Acquisition
- Trenching
- Drilling
- I.P. Survey

Such a program is likely to cost approximately \$150,000.00

References

Regional

GSC Memoir 228
including GSC Map 603A

GSC Open File 514
Regional Stream Sediment Survey

GSC Paper 761B pp 21-23
(Glover & Price 1976)

Cultus Creek Property

B.C. Dept. Mines Annual Report
1926 p 284

Humdinger & Hunkadora

B.C. Dept. Mines Annual Report
1927 p 326

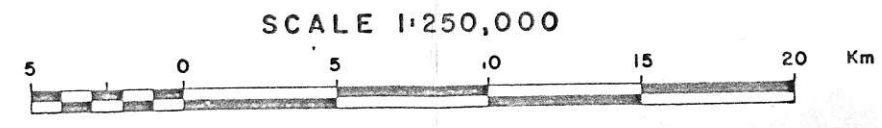
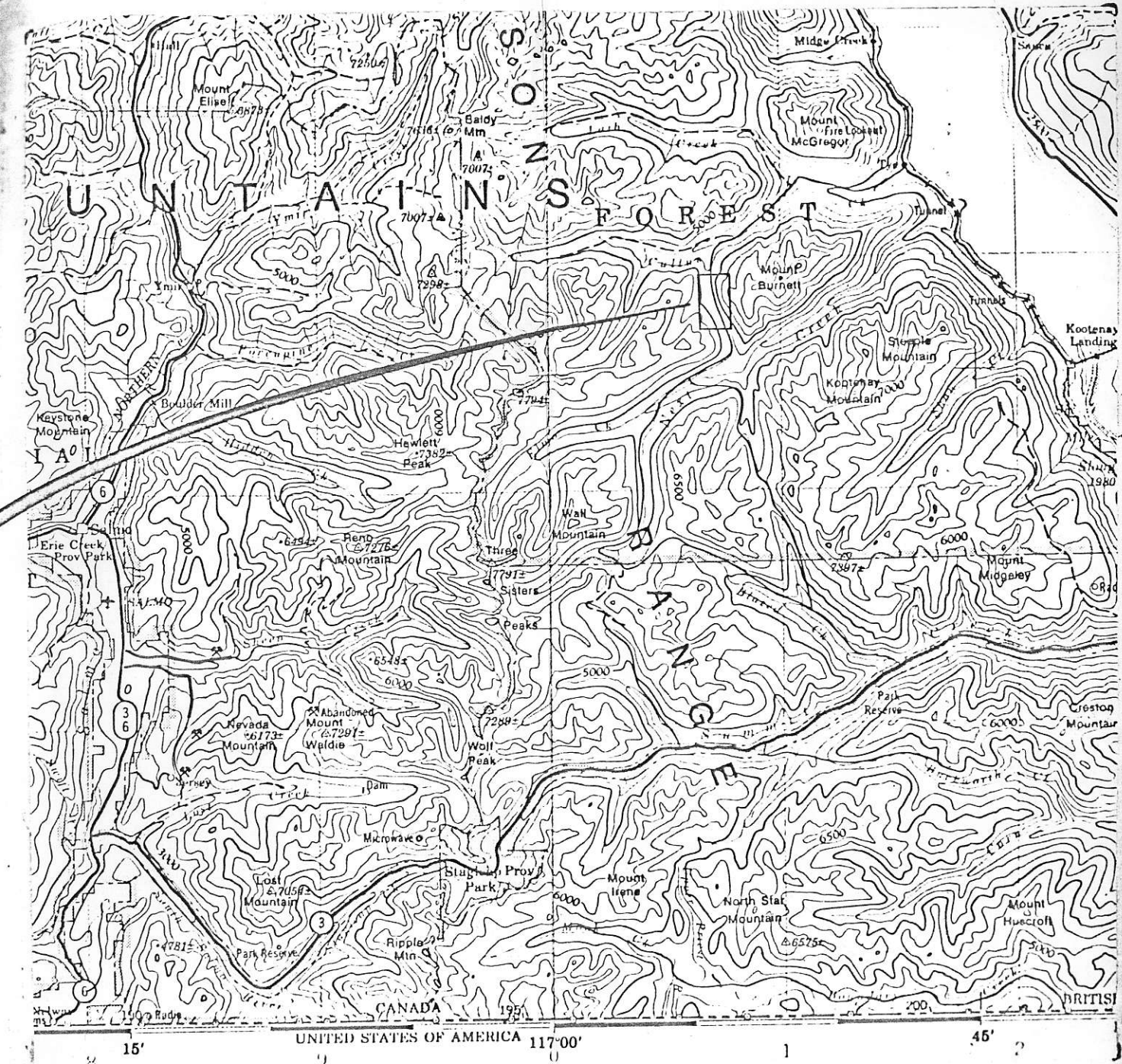
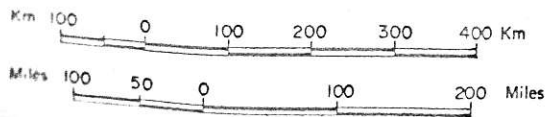
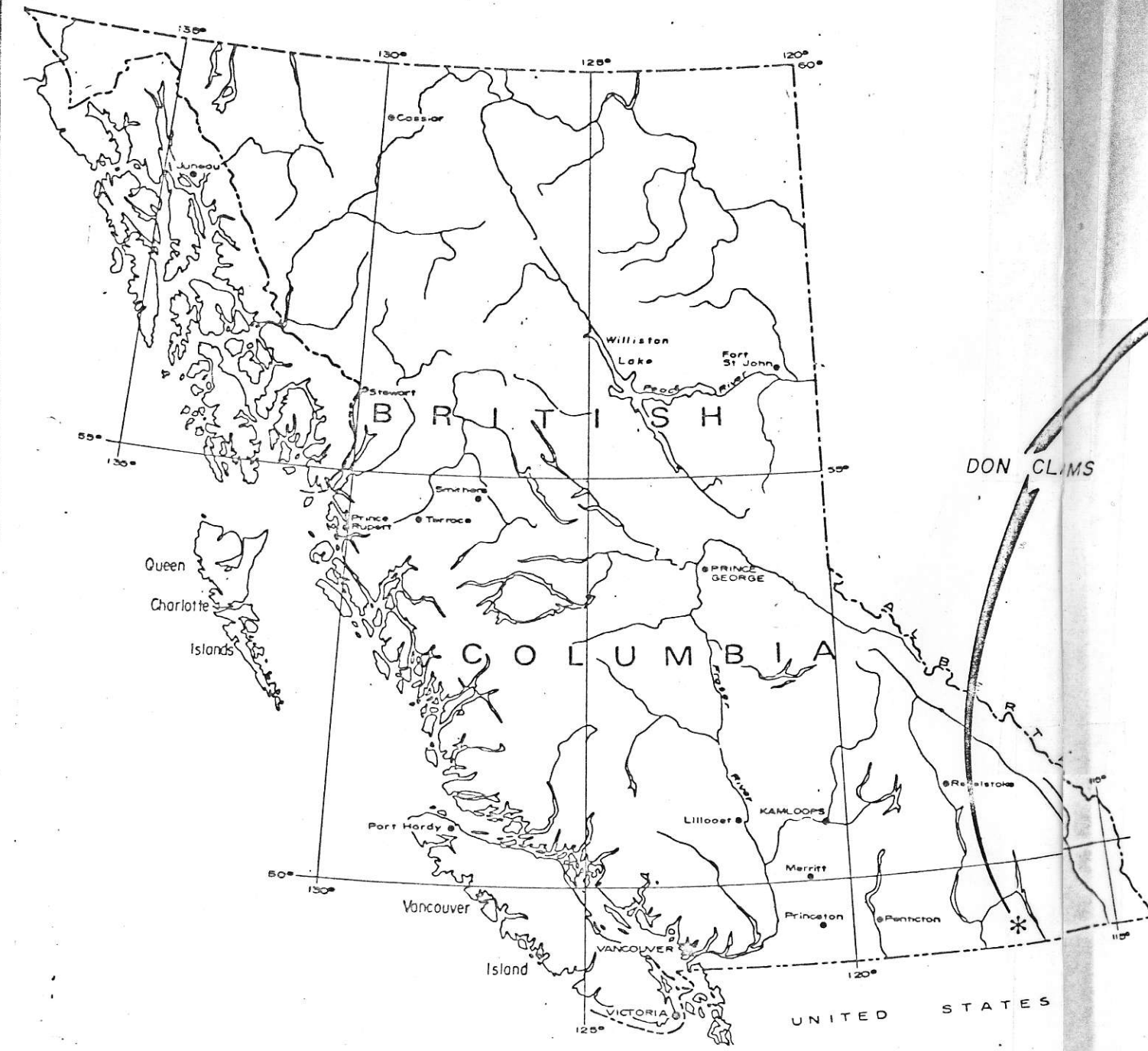
Peanut

B.C. Dept. Mines Annual Report
1968 p 241

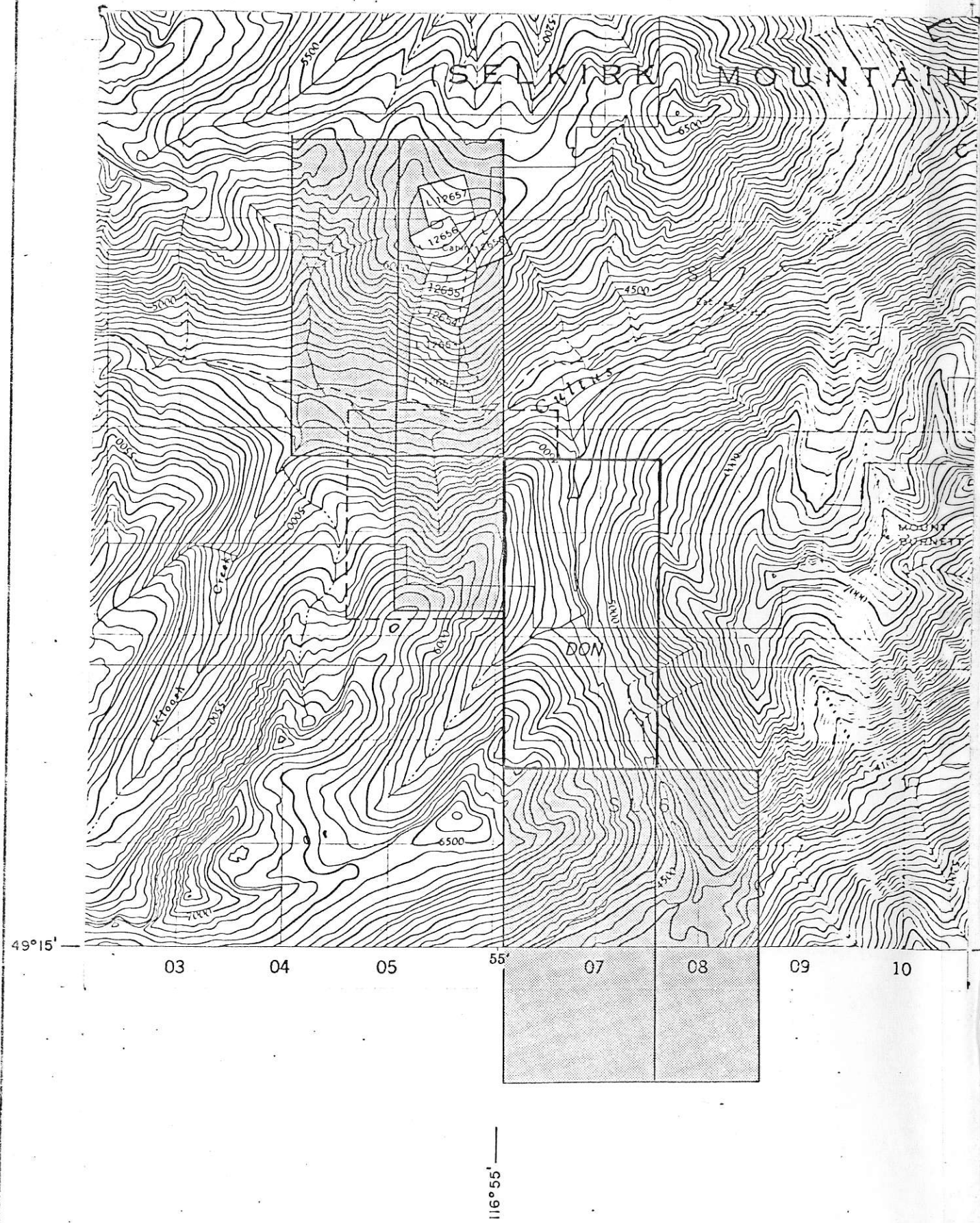
Iva Fern





B.C. Dept. Mines Annual Report
1917 p 167
1919 p 135
1928 p 351
1937 p E8-4

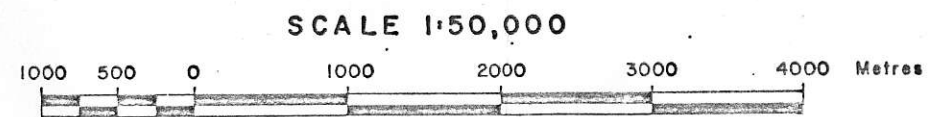
GSC Memoir 228 p 81



DON CLAIMS			
LOCATION MAP			
PLAN No 171	DRAWN	DATE NOV. 1980	FIGURE 1
Revised		N.T.S. 82 F7	
MINEQUEST EXPLORATION ASSOCIATES LTD.			



-  Don Claim
-  Proposed Staking
-  Iva Fern Crown Grants
-  Recently Abandoned Claim



DON CLAIMS			
PROPOSED STAKING			
PLAN No. 172	DRAWN	DATE NOV. 1980	FIGURE 2
Revised		N.T.S. 82 F7	
MINEQUEST EXPLORATION ASSOCIATES LTD.			