1984 GEOLOGICAL MAPPING PROGRAM

MOUNTAIN LION & G.H. FRACTION

FRANKLIN MINING CAMP

'85-52-#14235

Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
GEOLOGICAL	$4,000.00

AUTHOR(S) R.J. Ronaghan SIGNATURE(S) R.J. Ronaghan
M. Rogan M. Rogan

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED January 14, 1985 YEAR OF WORK 1984

PROPERTY NAME(S) Mountain Lion
G. H. Fraction

COMMODITIES PRESENT Copper, Iron

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION Greenwood NTS 82E/9

LATITUDE 49°34'30" LONGITUDE 118°22'15"

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

2 Post Claim, Mountain Lion (L 144s) Record No. 3997

2 Post Claim, F. H. Fraction (L 932s), Record No. 3996

OWNER(S)

(1) R. Ronaghan (2)

MAILING ADDRESS

4805 - 42 Avenue
Beaumont, Alberta, T0C 0H0

OPERATOR(S) (that is, Company paying for the work)

(1) Luscar Ltd (2)

MAILING ADDRESS

1600 Oxford Tower,
10235 - 101 Street
Edmonton, Alberta, T5J 3G1

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,235

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Within the area of the claims mineralization occurs along the contact between the Palaeozoic Franklin group, Mesozoic Cranodiorites and the Tertiary syenites. The strongest mineralization is located in the greenstones adjacent to the contact. Mineralization consist of chalcopyrite, pyrrhotite, pyrite and magnetite.

REFERENCES TO PREVIOUS WORK G.S.C. Memoir 56, Geology of Granklin Camp B.C. Report on Franklin Mining Camp and North Fork of Kettle River

(over)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area)	1×10^6 sq. metres		
Ground			
Photo			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ....)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralogic			
Metallurgic			
PROSPECTING (scale, area)	1×10^6 sq. metres		
PREPARATORY/PHYSICAL			
Legal surveys (scale, area)			
Topographic (scale, area)			
Photogrammetric (scale, area)			
Line/grid (kilometres)			
Road, local access (kilometres)			
Trench (metres)			
Underground (metres)			
		TOTAL COST	$4,000.00

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted ..... Date	Rept. No.			Information Class

GEOLOGICAL REPORT & MAPPING PROGRAM

1984 PROGRAM

Mountain Lion	:	Lot 1445
G. H. Fraction	:	Lot 923S
N.T.S. Map	:	82E/9
Latitude	:	49 degrees; 34 feet, 30 inches; North
Longitude	:	118 degrees; 22 feet, 15 inches; West
Owner of Claims	:	Luscar Ltd.
Operator	:	Luscar Ltd.
Author	:	R. J. Ronaghan
Date	:	December 15, 1984

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 Location, Access and Physiography

These claims are situated on Franklin Mountain approximately 70 km north of Grand Forks, B.C. with the peak being centered at approximately Latitude 49 degrees; 33 feet 40 inches North and Longitude 118 degrees; 22 feet West.

Franklin Mountain is bound on the east by Burrell Creek and on the west by Franklin Creek.

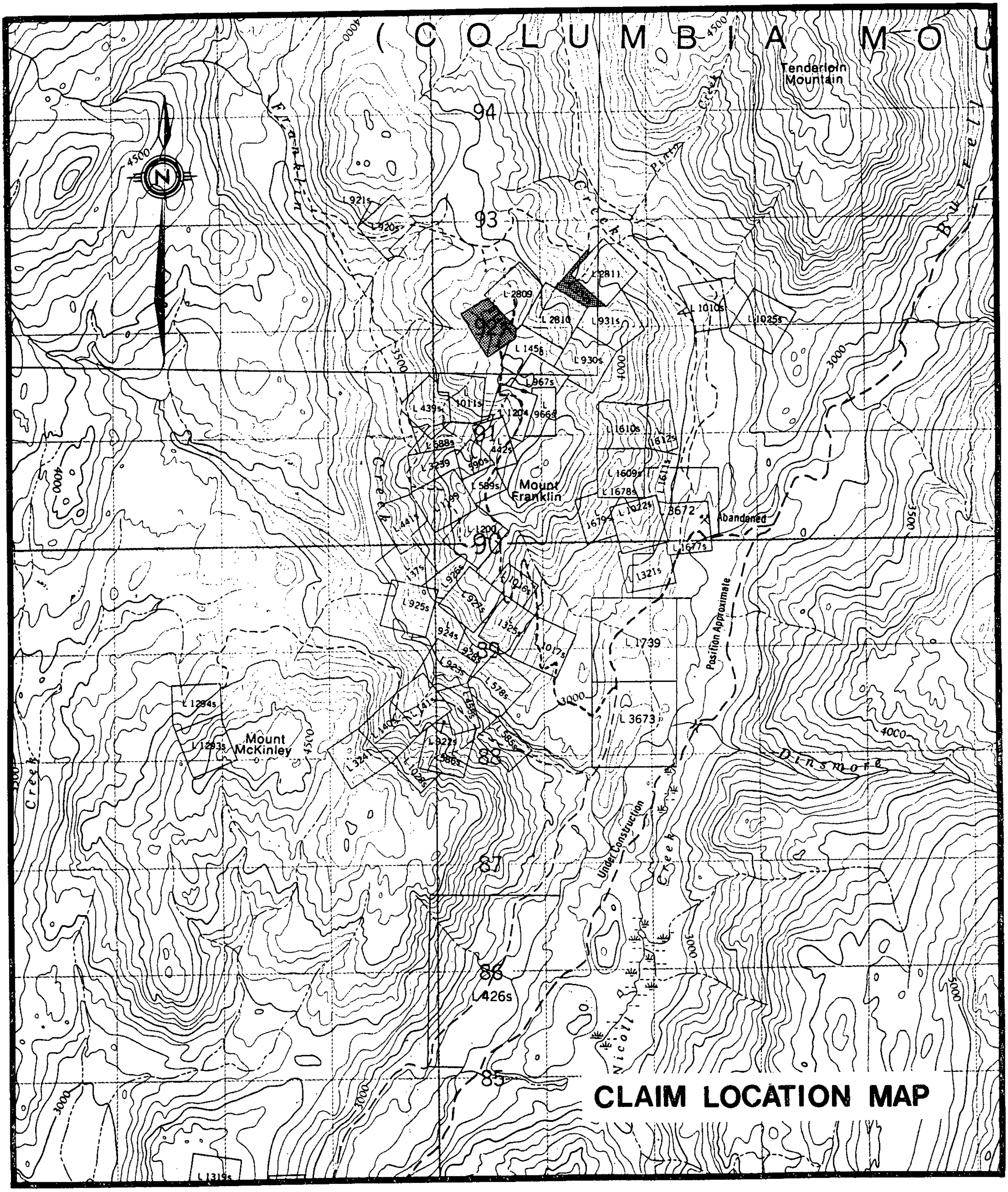
Access to the claims is north from Grand Forks, B.C. on the paved North Forks road for 44 km, then 25 km on the all weathered gravel Burrell Creek Road to the Union Mine turnoff. From here access is by old trails around both sides of Franklin Mountain. The eastern trail continues by the Union Mine and is overgrown by alders with some deadfall and a major washout just northeast of the claims. The western trail, although steep in places, is more open with only minor deadfall. This trail leads directly to the Mountain Lion claim at elevation 1340 m. The GH Fraction lies downhill to the east at elevation 1125 m.

1.2 Summary of Previous Work

Previous mapping and property evaluation was carried out in 1914 by Andrew G. Larson, B.C. SM Open File 'GH' 82E/9W. His report was written to assess the potential of extending the then existing rail system to the Franklin Mining Camp.

One year later the G.S.C. published Memoir 56 - Geology of Franklin Mining Camp, British Columbia - by Charles W. Drysdale.

Other geological reports exist but cover too large an area and are too general in nature to be useful.


(C O L U M B I A M O U
Tenderloin Mountain
Franklin
Creek
Pinto Creek
Burrell
921s
L 920s
L 2809
L 2811
L 2810
L 931s
L 1010s
L 1025s
L 145s
L 930s
L 967s
L 439s
1011s
L 1204
L 966s
L 1610s
1612s
L 588s
L 442s
L 3239
990s
L 589s
Mount Franklin
L 1609s
L 1678s
L 1611s
L 1022s
L 3672
Abandoned
L 441s
L 1200
L 1677s
L 1679s
L 1321s
L 925s
L 926s
L 927s
L 1016s
L 1325s
L 1017s
L 924s
L 923s
L 928s
L 578s
L 1739
Position Approximate
L 1294s
L 1293s
Mount McKinley
L 3673
Dinsmore
L 324
L 922s
L 586s
L 1028s
Under Construction
Creek
Nicoll
L 426s
L 1319s
94
93
91
90
89
88
87
86
85
4500
4000
3500
3000
CLAIM LOCATION MAP

1.3 Scope & Objectives of the 1984 Mapping Program

The objective of the 1984 mapping program was to assess the two claims for the occurrence of economic minerals. The scope included geological mapping and sampling of rocks in the entire area.

1.4 Summary of Work Carried out in 1984

In mid-May, four mandays were spent on the property to achieve a general overview and to assess access to the claims. The first day was spent cleaning and opening up the east side trail. Vehicular travel was restricted by large amounts of alders and deadfall and a major washout northeast of the claims. On the second day, a 4-wheel drive was used to ascend the south face of Franklin Formation. This trail was open to the Banner claim L1199. Deep snow restricted truck movement, therefore, the rest of the trail was accessed by foot and a quick assessment of existing outcrop on the claims was made. A follow up to this work was carried out in June when 6 mandays were spent mapping and sampling the entire area.

2.0 GEOLOGY

2.1 Geological Overview

The rocks in the vicinity of the claims are from the ~~Paleocene~~ Paleozoic Anarchist Formation consisting of greenstone and limestone. These are intruded by the Cenozoic Age Coryell Intrusions consisting of syenite and granite. The claims are situated on the contact between the Ararchist Group and the Coryell Intrusions.

On the Mountain Lion claim, the most abundant rock type is syenite which form a predominant ridge through the centre of the claim. The syenite is a pale buff in colour, medium to coarse grained, with granular fabric and hackly fracture. To the east, an upper Jurassic hornblende granodiorite persists. This unit is light greenish grey and medium grained with granitic texture. In the southeast corner, adjacent to the syenite contact, is a lense of pyroxenite that could only be traced for several hundred feet. This is bordered to the south by greenstone which is a dark green highly metamorphosed unit of the Franklin Formation.

On the G.H. Fraction, the main units are the hornblende granodiorite and the greenstone. Previous mapping indicated the Kettle River Formation existed in the portion of the claim but no outcrop was located to verify this.

The total area map included the Mountain Lion claim, the G. H. Fraction and all claims in between. This was carried out in order to correlate the geology between the two claims.

2.2 Economic Geology

The main purpose of the mapping project was to identify areas on the claim of mineable magnetite. No such areas were located although numerous areas of metallic minerals were identified along the Franklin Formation where it comes in contact with the

granodiorites and syenites. The main minerals were pyrrhotite, pyrite, magnetite and chalcopyrite. The main occurrence of magnetite was located on G. H. L2810 claim owned at present by M. Mallot. The outcrop is a full 12 m wide, but could not be traced in any direction without the aid of trenching. The metallic minerals in the ore in decreasing order of abundance are magnetite, hematite, pyrrhotite, pyrite and chalcopyrite. The gangue is chiefly tactite which is composed of amphibolite, garnet and other calc-silicate minerals.

3.0 RECOMMENDATIONS FOR FURTHER WORK

Although no economic mineral zones were located on the two claims, metallic minerals present in the area creates enough interest to retain the claims and possible carry out further work in the near future.

4.0 ITEMIZED COST STATEMENT

4.1 Field Personnel

	No. Days	Rate/Day	Total
M. Rogan	5	$300.00	$1,500.00
R. Ronaghan	5	$300.00	$1,500.00
		Total	$3,000.00

4.2 Accommodation/Subsistence

	No. Days	Rate/Day	Total
M. Rogan	5	$70.00	$ 350.00
R. Ronaghan	5	$70.00	$ 350.00
		Total	$ 700.00

4.3 Transportation Costs

Fuel		$ 120.00
Truck Rental		$ 180.00
	Total	$ 300.00
Total Cost		**$4,000.00**

AUTHORS' QUALIFICATIONS

Mervyn Rogan

Senior Geologist

1973 : B.Sc. Specialization in Geology - U. of A.

1974-1976 : Junior Research Officer - Alberta Research Council

1976-Present: Luscar Ltd.

Ronald Ronaghan

Project Geologist

1970 : Geological Technologist - N.A.I.T.

1970-1976 : INCO - Thompson, Manitoba

1976-Present: Luscar Ltd.

LEGEND

CLAIM LINES TAKEN FROM N.T.S 82 E/9
BURRELL CREEK BC
O/C PLOTTED FROM AIR PHOTO 30 BC 79079 No 166

PLOT ORIGIN

ELEVATION

300 250 200 150 100 50 0 100 200 300

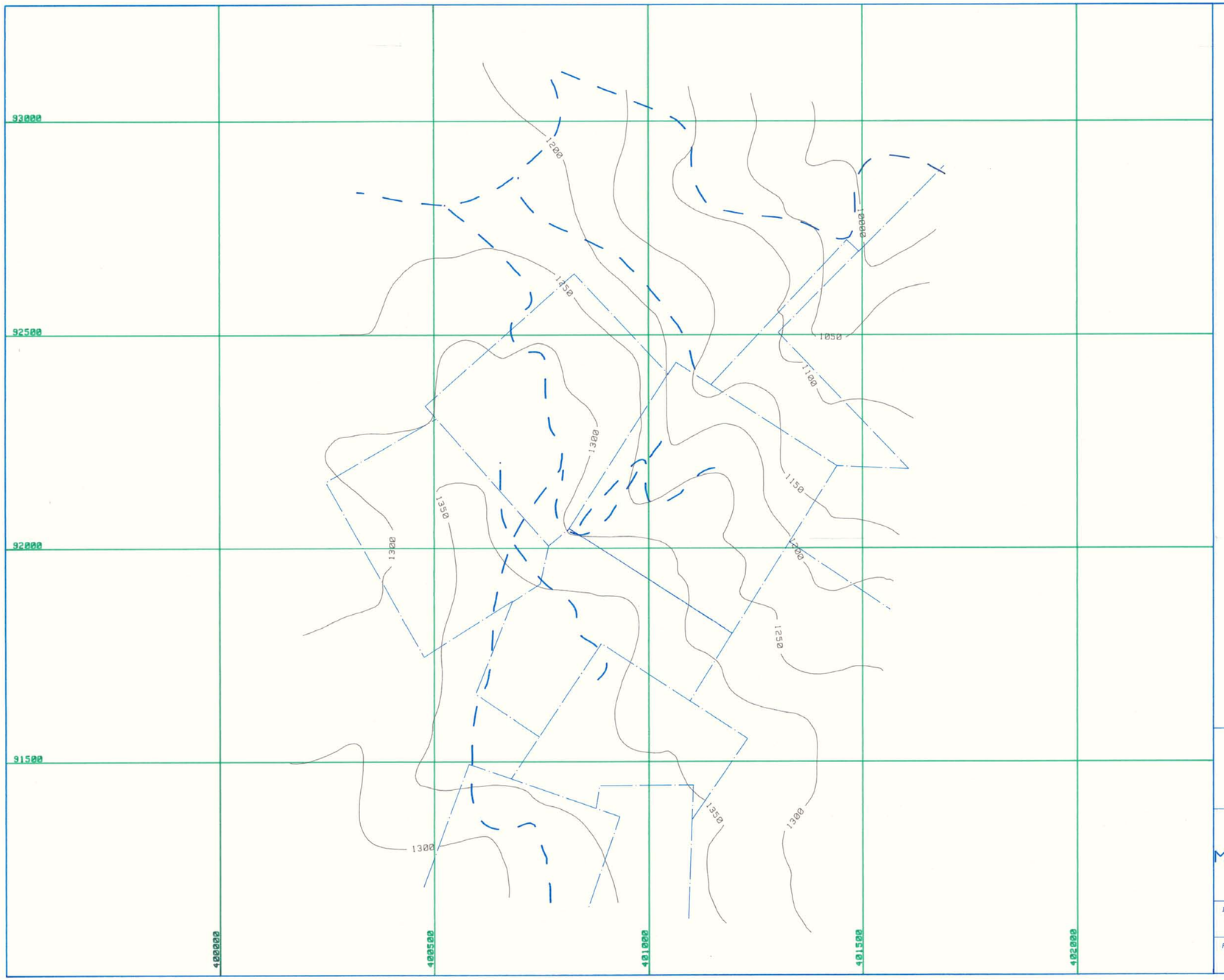
METRES

LUSCAR LTD.

FRANKLIN MINING CAMP

MTN. LION & G.H. FRACTION GEOLOGY

DATE :	DRAWN BY :	CHECKED BY :
7 Jan 1985	R.J.R.	RJR
FILE NO. :	SCALE : 1 : 5000	



LEGEND

CONTOURS FROM N.T.S 82 E/9

CLAIM LINES FROM N.T.S 82 E/9

ROADS

PLOT ORIGIN

ELEVATION – –

–

300 250 200 150 100 50 0 100 200 300

METRES

LUSCAR LTD.

FRANKLIN MINING CAMP

MTN. LION & G.H. FRACTION CLAIMS LOCATION PLAN

DATE :	DRAWN BY :	CHECKED BY :
7 Jan 1985	R.J.R.	RJR
FILE NO. :	SCALE :	
	1 : 5000	