

4801

104 I / 7E

GEOLOGICAL REPORT  
CWL AND CWE GROUPS  
McDame Area, Liard Mining Division  
Province of British Columbia  
129° 58' S. E.  
for FROBEX LIMITED, TORONTO, ONT.  
by 104 I / 7E  
Franklin L. C. Price, P. Eng.  
December 12, 1973

Department of  
Mines and Petroleum Resources  
Geological Report  
NO. **4801** MAP

REPORT ON  
GEOLOGICAL SURVEY

of the

CWL 1 - 13 (Record Nos. 69504-69516)

and

CWE 1 - 4 (Record Nos. 69500-69503)

Groups

located

1 mile East of Provencher Lake  
McDame Area, Liard Mining Division  
Province of British Columbia  
129° 58' S. E.

for

FROBEX LIMITED  
Toronto, Ontario

by

Franklin L. C. Price, P. Eng.  
#318-1030 West Georgia Street  
Vancouver, B.C., Canada

December 12, 1973

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## SUMMARY

A geological survey was made over a portion of the subject claim groups during the summer of 1973. This was done under the direction of Dr. John Chronic. Dr. Chronic is on the teaching staff of the University of Colorado. He received his Ph. D. in geology from Columbia University. John Chronic with two assistants did the geological mapping by Brunton and tape, and the southern claims by Brunton and pace.

This is a Jade prospect (Nephrite) and the mapping has shown large jade boulders and outcrops of good colour grade of jade.

## INTRODUCTION

Jade has been reported for several years in this area and a prospector named Andy Jensen displayed many excellent cut sections that were reported to be from this area. The group of claims were later staked to cover the area where the jade was located.

In June 1972, the area was visited by Dr. Chronic, at which time the presence of jade was confirmed. He then made plans to return in 1973 and traverse the claims in more detail.

The claim block is located within an extensive basic and dark-greenish belt in the Canadian Cordillera wherein lie large deposits of asbestos as well as jade.

This survey was conducted with three main objectives in mind. The first objective was to map the locations and the quantity of jade found on the claims. The second goal was to determine and depict locational trends which would help discover the placement of additional jade deposits. The third goal of the survey team was to become familiarized with the regional geology and rock types.

### Methods Employed

Our team was limited by a time factor, but we attempted to conduct the survey in a manner which would allow us to cover the entire

claim area with maximum accuracy and detail. At first the team made use of a compass, several standard fifty foot lengths, and a measured pace. This method gave a very accurate geological description of the Frobex claim area; however, it was soon realized that such a method, under present circumstances, was too slow and tedious to continue. In order to complete the survey of the entire Frobex claim area, we concluded the survey using a compass as our only instrument.

### GEOLOGY

The area which was investigated for this report centered around latitude  $58^{\circ} 15' N.$  and longitude  $120^{\circ} 40' W.$  lies entirely within a belt of greenstone, argillite, quartzite and limestone in which are long lenses and pods of serpentinized peridotite. Within these lenses and pods, some of which may be literally miles across, lie the masses of nephrite jade which are usually less than 100 ft. across. In places, also in masses and pods, asbestos is present.

In this region the belt of ultramafic rocks containing the jade is about 10 miles wide and it trends  $N 75^{\circ} W$  and is reported on the McDame geological map and in Canadian Geological Survey Memoir 319. This belt is equivalent to the Sylvester group.

On both the north and south, rocks of Mesozoic age adjoin the belt and Cassiar batholith is exposed immediately to the north. The age

of the jade was considered to be upper Devonian from lower Mississippian? On Canadian Geological Survey Sheet 1041, Cry Lake area Map 29-1962, it appears that a more satisfactory age would be latest Triassic or Jurassic. The problem of age and general relationships to these rocks was not dealt with to any extent on this expedition, as a detail knowledge of geology on and adjoining to the Frobex claims was the sole purpose of the trip. In the immediate area of the camp a more simple general picture occurs, although in detail these rocks have had a very complex history. Inasmuch as the major interest here was with the bedrock, less attention was paid to the surficial material.

#### Cover

Pleistocene glacial till, scree and talus cover probably 50% of the area. In the valleys till almost completely covers the bedrock, but above timberline the most of the surface is bedrock; scree and talus cover the lower protected spots. Jade boulders of all sizes dot both valley floors and tundra.

#### Bedrock

Almost all of the rocks outcropping in the area are serpentine, talc, metamorphosed sandstone and limestone, greenstone, asbestos or jade. Because of extreme deformation in the belt, it was impractical to spend time mapping isolated blocks of these rocks to help in the

search for jade.

General trends of the strata are approximately parallel to that of the ultramafic belt, but there are many exceptions. The most prominent of the trend show up clearly as the jade bearing lenses on the geologic map. The limestone and sandstone are more or less parallel to these, but often appear to have been crumpled locally. The sedimentary rocks were closely examined for fossils and none were found.

Beds of the strata in the area are generally one to a few feet thick, but the jade masses are up to perhaps 20 ft. in thickness. Generally, the jade masses are highly lenticular and do not extend for more than a few hundred feet laterally.

The dip of all the rocks which are strata form is most frequently very high, often vertical, both East and West of the Provencher Lake valley in which our camp was located.

#### Nephrite

The mineralization is a variety of nephrite which is normally known as jade and includes all the compact micro crystalline or micro fibrous forms of the tremolite ferro actinolite solid solution series represented by formulas  $\text{Ca}_2\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$  and  $\text{Ca}_2\text{Fe}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$ .

The rock which was the expedition's target was this material, the specimen had a light homogeneous green colour and took an attractive polish.



QUALIFICATIONS OF GEOLOGIST

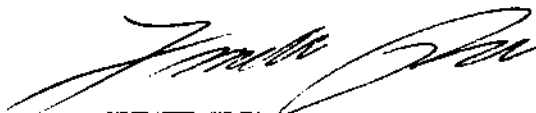
The work described herein was under the field direction of Dr. John Chronic. He was assisted in this work by his wife who also has a Ph.D. degree in Geology.

John Chronic received his Bachelor's degree in Petroleum Engineering from the University of Tulsa. He later earned his Master's degree in Geology at the University of Kansas.

Dr. Chronic received his Ph. D. in Geology from Columbia University in New York.

He has followed his career in Geology for the last twenty years, and is fully qualified to conduct field work and geological mapping as required.

Respectfully submitted,

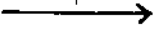


Franklin L. C. Price, P. Eng.

Vancouver, B. C., Canada  
December 12, 1973

Routes Surveyed

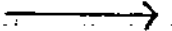
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204886  
M



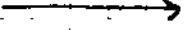
CWL  
12  
204885  
M



CWL  
10  
204883  
M



CWL  
8  
204881  
M



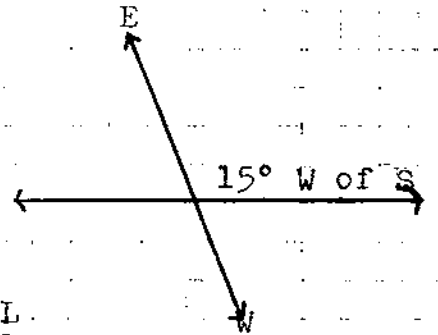
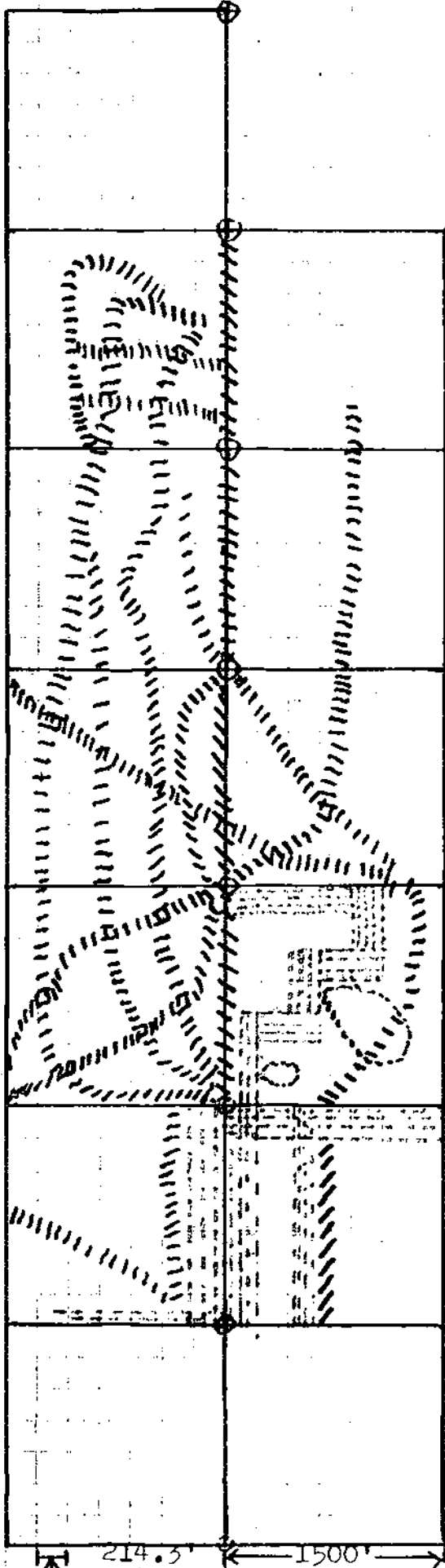
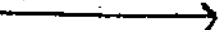
CWL  
6  
204879  
M



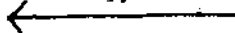
CWL  
4  
204827  
M



CWL  
2  
204825  
M

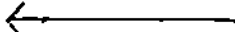


CWL  
11  
204884  
M

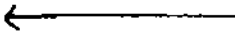


Department of  
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NO. **4801** MAP **#2**

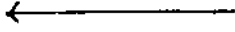
CWL  
7  
204880  
M



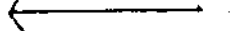
CWL  
5  
204878  
M



CWL  
3  
204826  
M

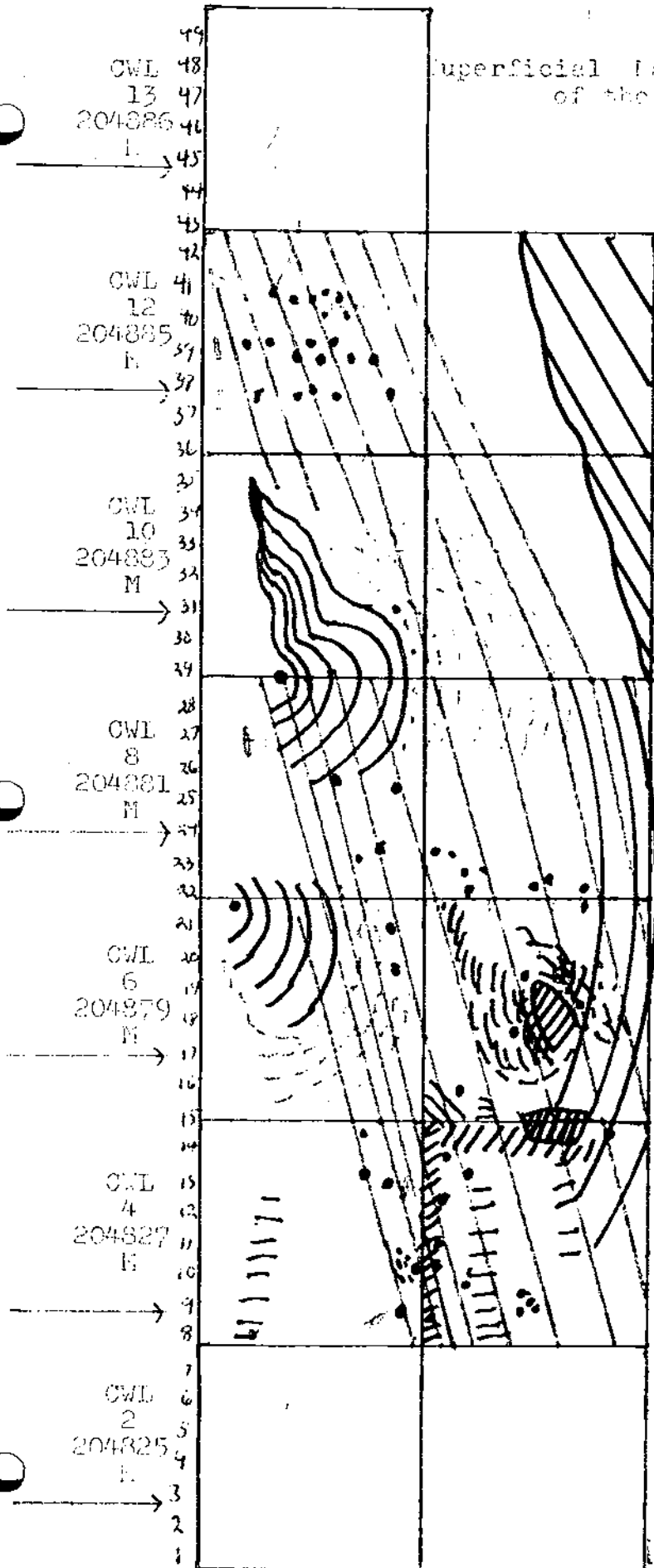
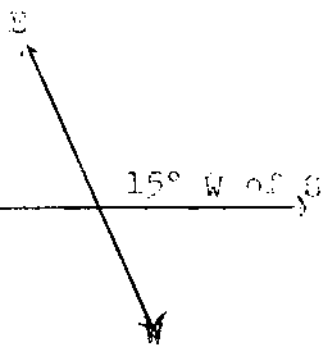


CWL  
1  
204816  
M



- Key
- Routes Surveyed with Instrument
  - Routes Surveyed without Instrument
  - Center Post Marks of CLAIM

### Superficial Manifestations of the Area



Department of  
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- Key
- /// snowed in with probability of jade
  - /// Placer Jade
  - /// talus (mostly small boulders)
  - /// serpentine (mostly talus)
  - /// miscellaneous Bedrock

214.3' ← 1500' →  
 A B C D E F G H I J K L M N

CWL  
6

204879  
m

CWL  
5

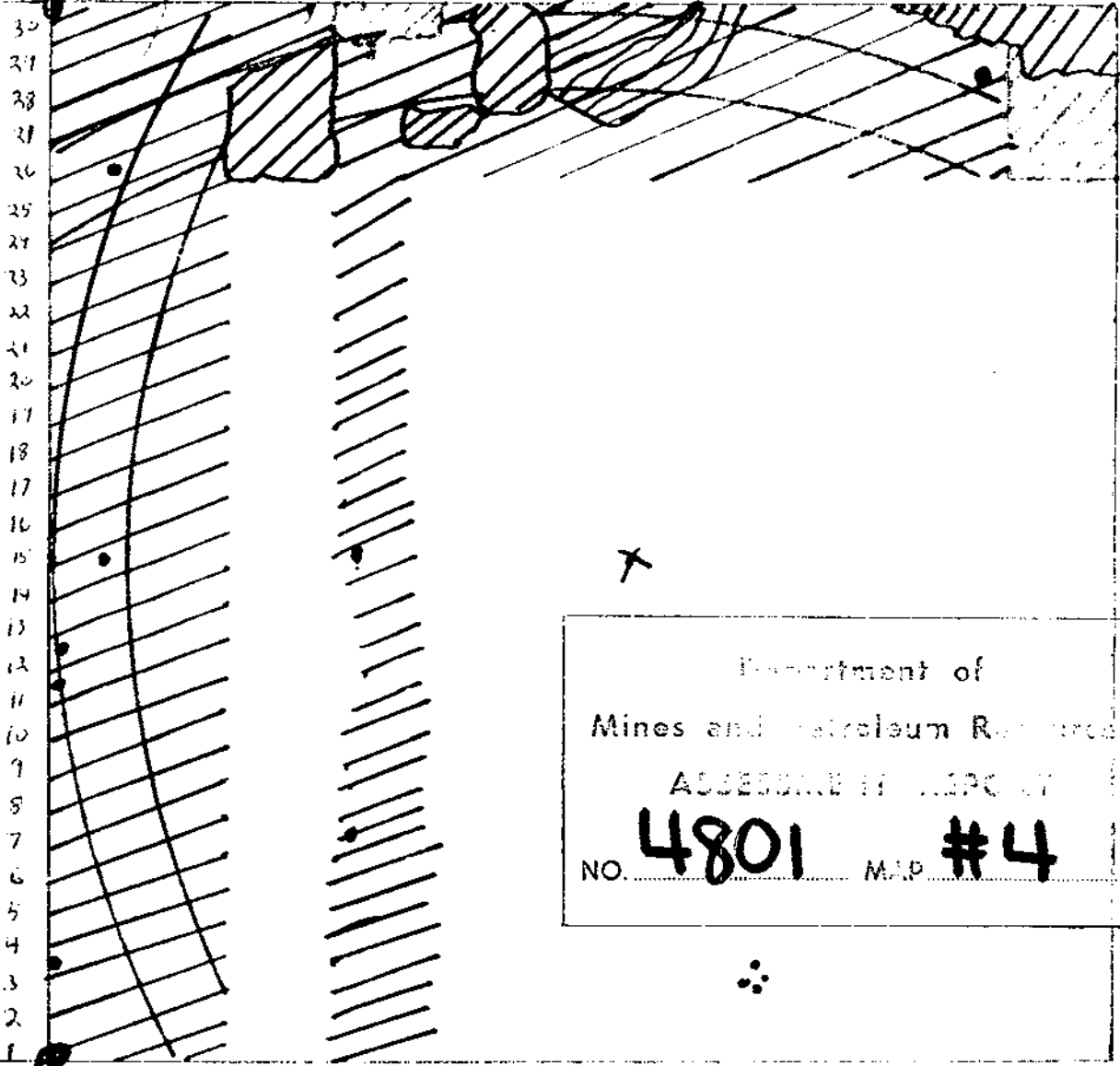
204878  
m

CWL  
4

204827  
m

CWL  
3

204826  
m



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **4801** MAP **#4**

CWL  
2

204825  
m

CWL  
1

204816  
m

key

- ⊙ center post
- /// snowed in with probability of Jade
- /// Placer Jade
- /// Talus Jade (mostly small botryoidal)
- /// Serpentine (mostly talus)
- /// mixed ground surface
- /// miscellaneous bedrock

CWL  
6  
204879  
M

CWL  
5  
204878  
M

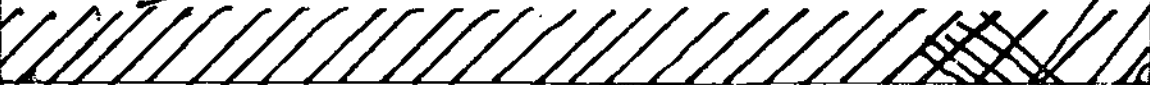
CWL  
4  
204827  
M

CWL  
3  
204826  
M

30  
29  
28  
27  
26  
25  
24  
23  
22  
21  
20  
19  
18  
17  
16  
15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1

D E B X Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

Department of  
Mines and Petroleum Resources  
ASSESSMENT DISTRICT  
NO. **4801** M.P. **#5**



CWL  
2  
204825  
M

CWL  
1  
204816  
M

key

- ⊕ center post
- /// snowed in with probability of Jade
- ⋯/// Placer Jade
- ⋯/// Talus Jade (mostly small botryoidal)
- ⋯/// Serpentine (mostly talus)
- ⋯/// miscellaneous bedrocks

CWL  
8  
204881  
m

CWL  
7  
204880  
m

30  
29  
28  
27  
26  
25  
24  
23  
22  
21  
20  
19  
18  
17  
16  
15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1

CWL  
6  
204879  
m

CWL  
5  
204878  
m

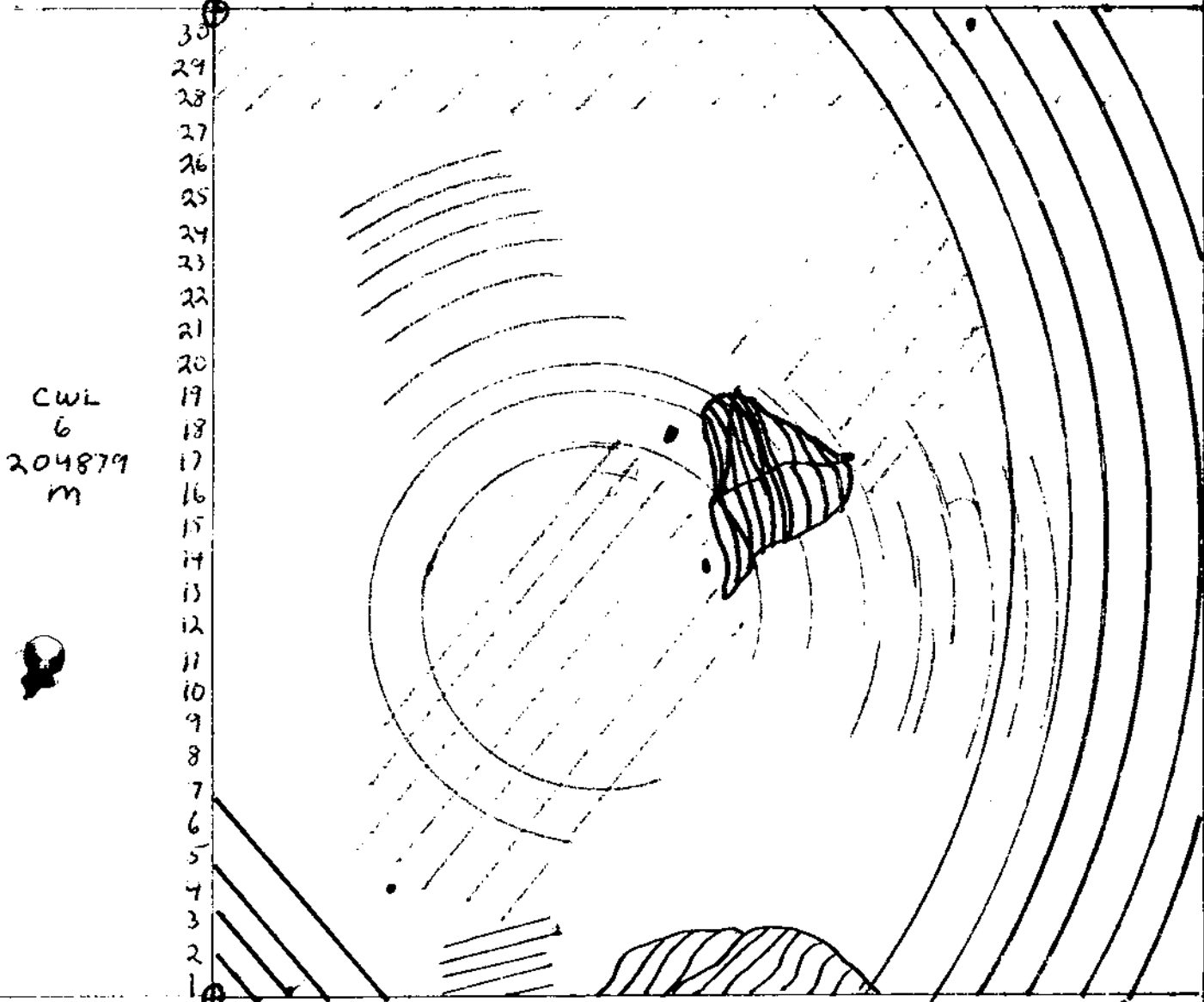
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 8 6 E J

CWL  
4  
204827  
m

CWL  
3  
204826  
m

Department of  
 Geological and Petroleum Surveys  
 REGISTRATION DEPARTMENT  
 NO. **4801** M.P. **#6**

- key
- ⊙ center post
  - /// snowed in with probability of Jade
  - /// Placer Jade
  - /// Talus Jade mostly (small botryoidal)
  - /// serpentine (mostly talus)
  - /// miscellaneous bedrocks





130° W

17° DAME  
129° W

128° W

58° N

CRY  
LAKE

PETER'S  
LANDING

DEAS LAKE

Department of  
Mines and Technium Resources  
ASSESSMENT REPORT  
NO. **4801** MAP **#7**

X ← PROPERTY

58° N

PORTION OF NORTHERN  
BRITISH COLUMBIA

FRANKLIN PRICE  
PROFESSIONAL MINING ENGINEER

FROBEX LIMITED  
JADE PROJECT

DIAGRAM NO. 1450 APRIL '79



CANADA  
PROVINCE OF  
BRITISH COLUMBIA

IN THE MATTER OF

TO WIT:

THE N.C.W., C.W.L., AND C.W.E. MINING CLAIMS

I, FRANKLYN PRICE, P.Eng., of the City of Vancouver,

in the Province of British Columbia

do solemnly declare

THAT a geological survey has been executed on the N.C.W. and C.W.L. and C.W.E. claims between June 21 and July 8, 1973. The following expenses were incurred:

Wages

H. Snyder - one month	\$450.00
F. Chronic - one month	\$300.00
H. Chronic - 18 days @ \$20.00 per day	\$360.00
R. Pattison - 18 days @ \$20.00 per day	\$360.00
	<hr/>
	\$1,470.00

Transportation

J. Chronic - Transport DV to Watson Lake	\$208.80
Halka Chronic " " " "	\$187.09
Felicie Chronic " " " "	\$208.28
" " " Watson Lake to DV	\$119.00
H. Snyder	\$119.00
R. Pattison	\$119.00
Watson Lake Flying Service Ltd. - Watson Lake to field camp - round trips	\$1,524.00
	<hr/>
	\$2,485.17

Food & Equipment Expenses

Lodging and food on Watson Lake	\$70.85
Food for camp	\$228.29
Field equipment	\$72.42
Geological equipment, maps etc.	\$253.27
	<hr/>
	\$624.83

Consulting Fees

3 days @ \$150.00 per day	\$450.00
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Total: \$5,030.00

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 the City of  
at Vancouver,  
in the Province of British Columbia,  
this 12th day of December,  
A. D. 19 73.

M. G. Kemp

A Notary Public in and for the Province of British Columbia  
A Commissioner for taking Affidavits for British Columbia.

DATED 12 December, 1973

IN THE MATTER OF

THE N.C.W., C.W.L. AND C.W.E.  
MINING CLAIMS

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STATUTORY  
DECLARATION

- of -

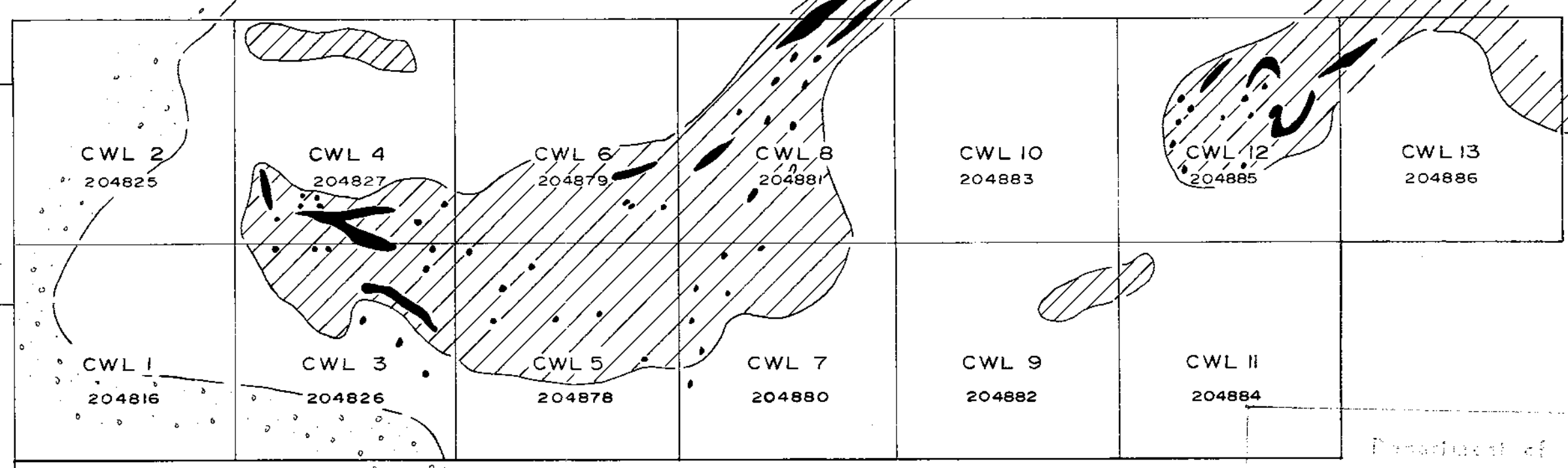
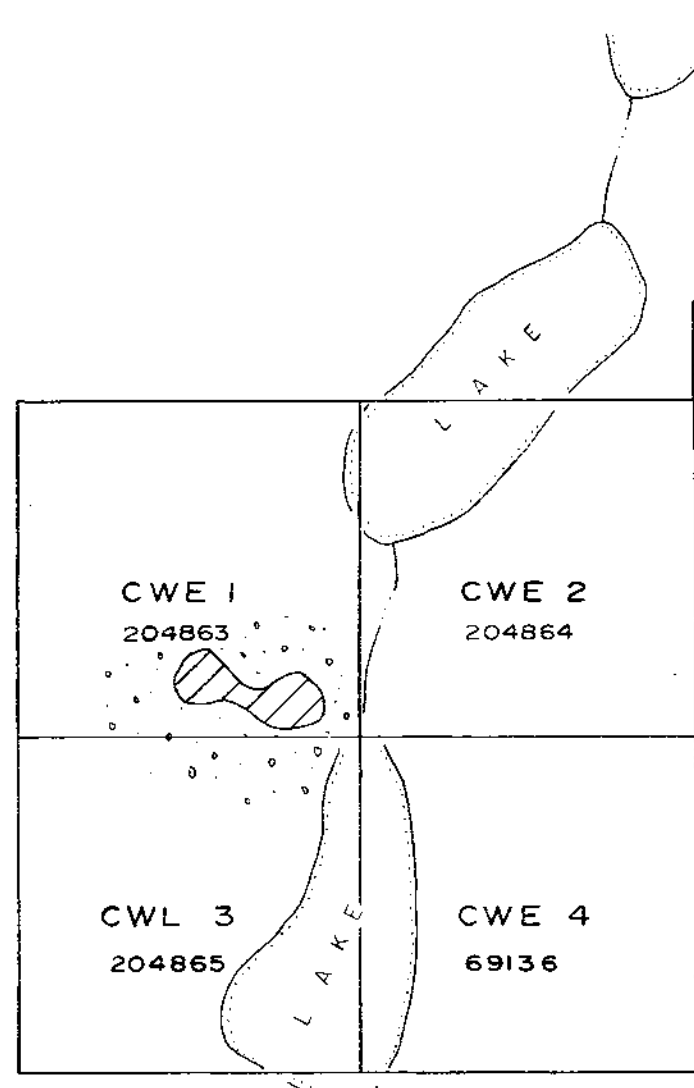
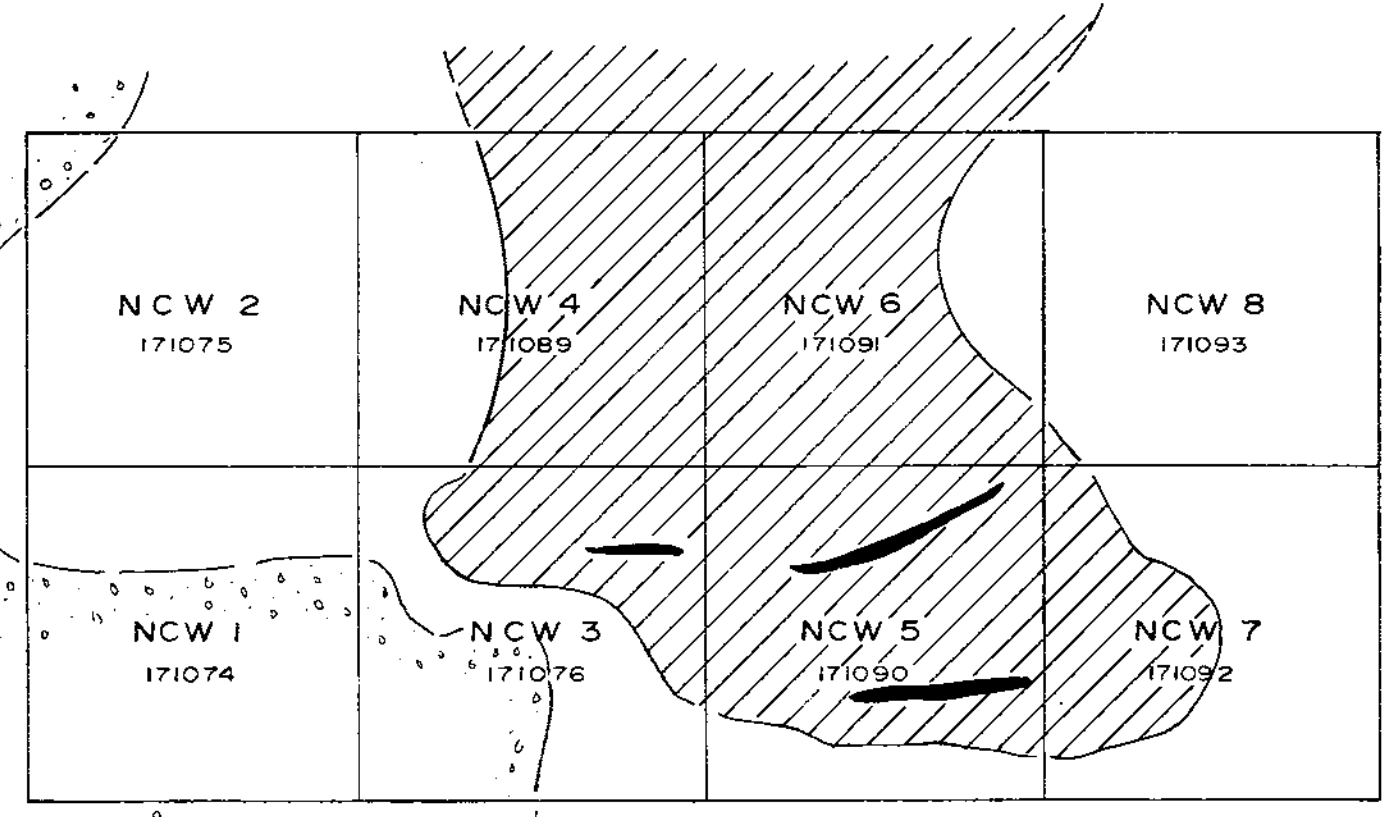
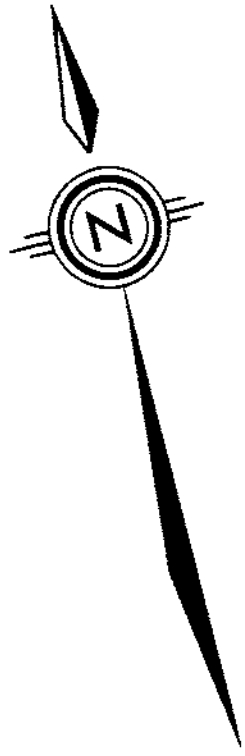
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


FRANKLYN PRICE

---

GOLDMAN, KEMP, CRAIG & WENER,  
BARRISTERS & SOLICITORS,  
1422-1055 WEST GEORGIA STREET,  
VANCOUVER, B.C.  
:2561

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- LEGEND**
-  JADE-NEPHRITE
  -  PLEISTOCENE GRAVELS
  -  SERPENTINE

NOTE:  
CLAIM LOCATION DIAGRAMMATIC  
GEOLOGY DATA: JOHN CHRONIC

**4801  
MI**

Department of  
Mines and Geology Resources  
Alberta  
NO. **4801** M.P. **#1**

**FRANKLIN PRICE**  
PROFESSIONAL MINING ENGINEER

**FROBEX LIMITED**  
JADE PROJECT

**CLAIM & GEOLOGY MAP**