'79-# 50 # 7582

GEOLOGY AND DRILLING

B.S. GROUP (B.S. 1&2)

PROVENCHER LAKE

LIARD MINING DIVISION

104 I/7E

58^{o} 16'N 128^{o} 40'W

OWNER & OPERATOR: CRY LAKE JADE MINES LTD.

WRITER: A.M. Homenuke, P. Eng.(Geol.)

SUBMITTED: November 15, 1979

Tri-con Mining Ltd.

VANCOUVER, B.C. CANADA

C O N T E N T S

I L L U S T R A T I O N S

I. INTRODUCTORY NOTES

LOCATION AND ACCESS

The B.S. Group of mineral claims is located one kilometer southeast of Provencher Lake, 86 km. ESE of Dease Lake and 9 km. WNW of the Cry Lake Jade camp at Kutcho Creek airstrip.

Access is possible by float plane to Provencher Lake, by winter cat trail from Dease Lake, or by fixed wing airplane to Kutcho Airstrip then by helicopter or cat trail (See Fig. 1).

PHYSICAL FEATURES

The claim group covers the valley of a small creek draining northwesterly towards Provencher Lake. Steep rocky ridges bound the property on the north, east and south. The B.S. 1 claim is on a relatively gentle southwest slope. The B.S. 2 claim covers the steep-sided creek valley. A small lake in a steep walled urque occurs on the southeast corner. The terrain flattens to the west upon entering the Kehlechoa River valley. Elevations on the property range from 1300 meters (4300 ft.) on the west to 2000 meters (6500 ft.) on the northeast.

The eastern two-thirds of the property is covered by alpine meadows, rocky areas and talus slopes. To the west, the property is timbered with subalpine to alpine fir, spruce and various shrubs.

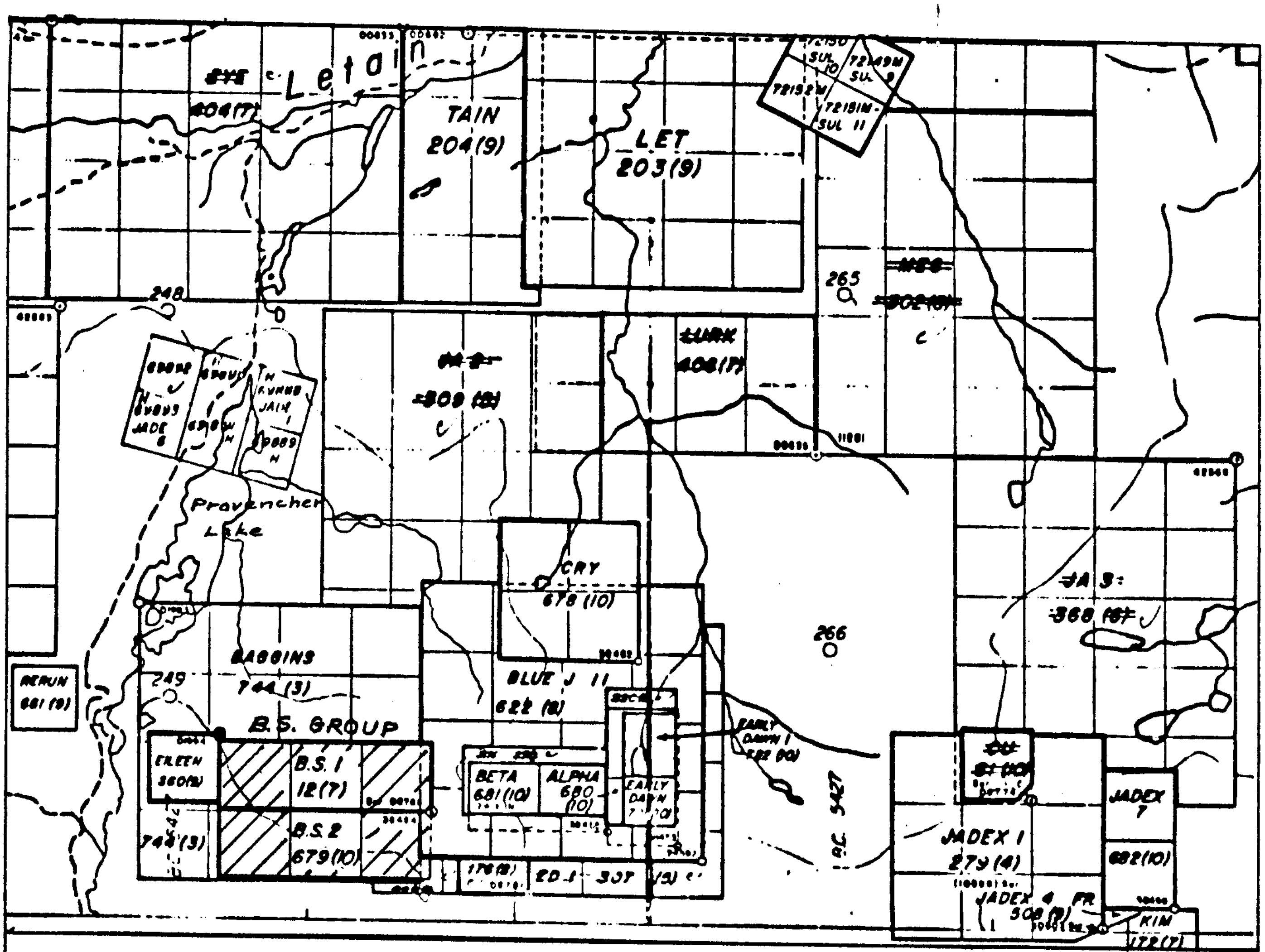
CLAIMS AND OWNERSHIP

The B.S. Group consists of the following mineral claims totalling 12 units (Fig. 2):

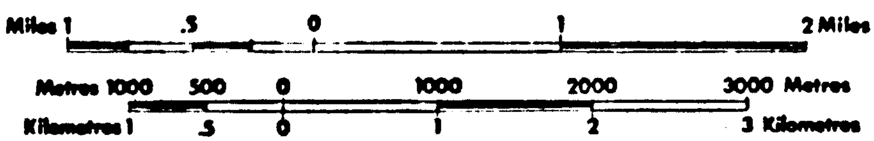
NAME	UNITS	RECORD NO.	RECORD DATE
B.S. 1	3	12	July 7
B.S. 2	3	679	October 2

The claims are owned by Cry Lake Jade Mines Ltd. The B.S. 1 claim was legally surveyed in 1977; the B.S. 2 claim was surveyed in 1979 and the survey will be submitted shortly for approval.

.../2



Part of 104 I/7E



CRY LAKE JADE MINES LTD.

B.S. GROUP

LOCATION MAP

HISTORY

The B.S. 1 claim was staked in 1975 by Robert Schumacher. The claim became part of an option agreement between Schumacher and Andy Jensen and Cry Lake Jade Mines Ltd. In 1976 several "Packsack" holes were drilled in jade boulders located near the center of the eastern unit. Excellent quality jade was indicated. During the 1977 field season under the management of Tri-Con Mining Ltd., the property was prospected and plans made for further development. Further drilling was conducted in the same area in 1978. Several more boulders were found to contain good quality jade. An existing cat trail from Kutcho Creek Airstrip to Provencher Lake was extended to the area of the boulders. Some 30 tons of boulders were removed yielding about 20 tons of high quality product.

The B.S. 2 claim was staked in September, 1978 and was basically a relocation of the former FYC and SOB claims.

Further drilling and mapping in 1979 are the subject of this report.

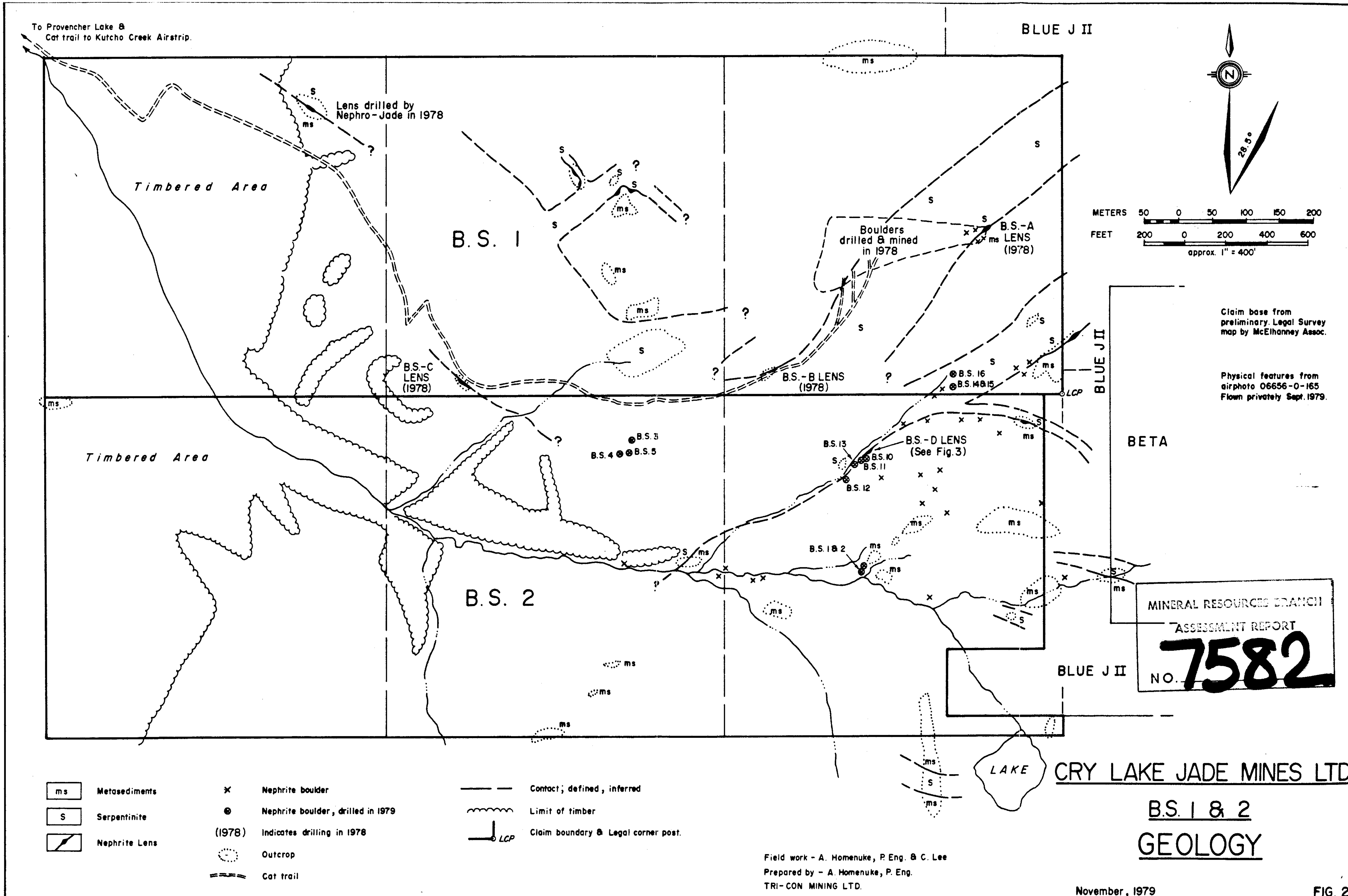
ECONOMIC ASSESSMENT

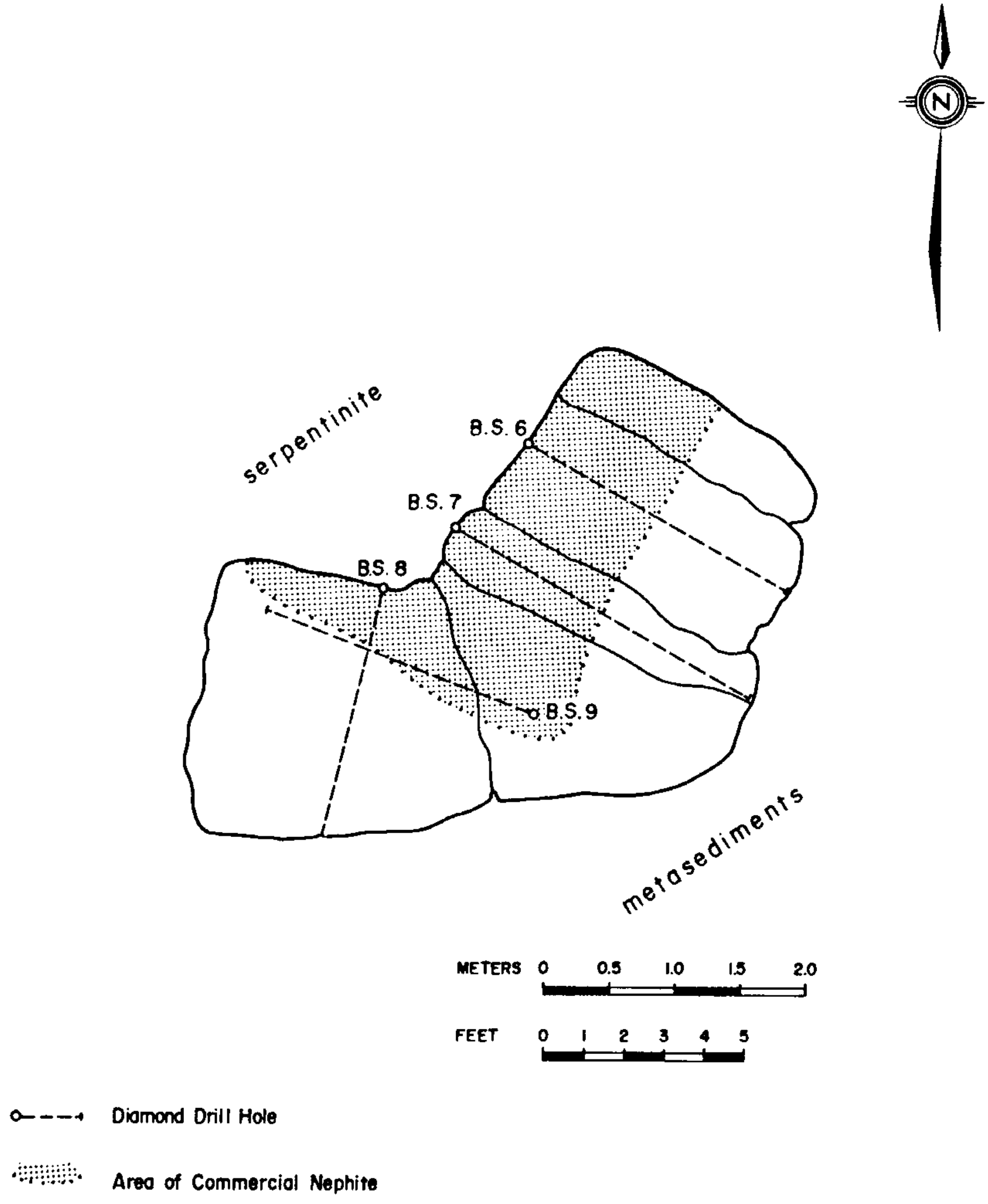
The past production record and present encouraging drilling results show that the B.S. Group is a valuable jade property. In addition, considerable production of placer jade in the area south of Provencher Lake has taken place since the early seventies. Much of this material must have been derived from the area of the B.S. Group. Limited outcropping of serpentine contact favorable for the occurrence of nephrite lenses leaves considerable room for further occurrences presently hidden by overburden.

PRESENT WORK AND DISTRIBUTION

Preliminary geologic mapping was limited to showing the general trend of serpentinite contacts. Drilling was carried out on boulders along the slope to the north of the creek up to the common claim boundary (ie. the major portion of the program was on the B.S. 2 claim).

.../4


To Provencher Lake &
Cat trail to Kutcho Creek Airstrip.
BLUE J II
Lens drilled by Nephro-Jade in 1978
Timbered Area
B.S. 1
Boulders drilled & mined in 1978
B.S.-A LENS (1978)
B.S.-C LENS (1978)
B.S.-B LENS (1978)
B.S. 16
B.S. 14 & 15
BLUE J II
LCP
BETA
B.S. 3
B.S. 4
B.S. 5
B.S. 13
B.S. 10
B.S. 11
B.S. 12
B.S.-D LENS (See Fig. 3)
Timbered Area
B.S. 1 & 2
B.S. 2
BLUE J II
LAKE
METERS 50 0 50 100 150 200
FEET 200 0 200 400 600
approx. 1" = 400'
Claim base from preliminary Legal Survey map by McElhanney Assoc.
Physical features from airphoto 06656-0-165 Flown privately Sept. 1979.
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 7582
ms Metasediments
s Serpentinite
Nephrite Lens
Nephrite boulder
Nephrite boulder, drilled in 1979
(1978) Indicates drilling in 1978
Outcrop
Cat trail
Contact; defined, inferred
Limit of timber
Claim boundary & Legal corner post.
LCP
Field work - A. Homenuke, P. Eng. & C. Lee
Prepared by - A. Homenuke, P. Eng.
TRI-CON MINING LTD.
CRY LAKE JADE MINES LTD.
B.S. 1 & 2
GEOLOGY
November, 1979
FIG. 2



CRY LAKE JADE MINES LTD.

B.S.-D LENS

DRILL HOLE PLAN

Prepared by: A. M. Homenuke, P. Eng.
TRI-CON MINING LTD.

November, 1979

FIG. 3

II. GEOLOGY

The B.S. Group is underlain by Cache Creek metasediments intruded by serpentinized ultrabasics. Nephrite lenses occur as a result of contact metasomatic alteration along serpentinite contacts. Nephrite boulders are present in talus along the slopes.

Outcropping are scarce, except along ridgetops, and many of the contacts have to be inferred from talus distribution. Where exposed, contacts are generally steeply dipping and appear to follow two major trends, northeast and northwest. The geology to date is shown on Fig. 2.

Three lenses were investigated by drilling in 1978 (B.S. - A,B,C).B.S.-A appears to have been the source of the high grade boulders removed, however no commercial jade was found to remain. B.S.-B was non-commercial and B.S.-C requires further testing.

A major part of the 1979 program was directed towards evaluating the B.S.-D Lens and nearby boulders. A plan of this lens is shown on Fig. 3. The Lens is further described under "Drilling" and "Discussion of Results".

There are several lenses and numerous boulders remaining to be tested along with several kilometers of unexposed serpentinite contacts.

III. DRILLING AND RESERVE ESTIMATES

16 holes totalling 22.3 meters (73 ft.) were drilled with a "Packsack" drill. 4 holes were in the B.S.-D Lens (Fig. 3), the rest were in boulders (Fig. 2). The drilling rate was 3-5 meters per day. Access was by helicopter, and water generally had to be airlifted to the drill sites. The following list is a summary of the drilling results. All core is nephrite jade unless otherwise indicated: (see following page)

DRILLING AND RESERVE ESTIMATES CON'T.

B.S. 1 (108 cm. - 3.6 ft.) Boulder 6.5 tons

0 - 29 weathered

29 - 75 commercial 'C' grade, greyish, few black inclusions, minor weathering on fractures — 1.5 feet

75 - 99 slightly talcy

99 - 108 weathered

Estimate 40% 'C' grade   2.6 tons

B.S. 2 (119 cm - 4 ft.) Boulder 9.8 tons

0 - 36 weathered

36 - 105 commercial 'C+' grade, few black inclusions, minor weathering on fractures — 2.3 feet

105 - 119 slightly talcy, increased black inclusions

Estimate 50% 'C+' grade   4.9 tons

B.S. 3 (99 cm - 3.3 ft.) Boulder 8.1 tons

alternating 10-20 cm. weathered and commercial appearing sections; requires sawing; part may be marketable as color indicates 'B' grade, uvarovite inclusions (chrome garnet)

Estimate 20% 'B' grade   1.6 tons

B.S. 4 (80 cm - 2.7 ft.) Boulder 5.9 tons

alternating weathered and commercial sections about 10 cm, good sections are light green and clear of fractures with minor white veining and uvarovite inclusions.

Estimate 20% 'B' grade   1.2 tons

B.S. 5 (54 cm - 1.8 ft.) Boulder 1 ton

0 - 2 weathered

2 - 47 commercial 'B/B+' grade, uvarovite inclusions — 1.5 feet

47 - 54 weathered

Estimate 80% 'B/B+' grade   0.8 tons

B.S. 6 to B.S. 9 were drilled in the B.S.-D Lens

The hole locations are shown on Fig. 3.

DRILLING AND RESERVE ESTIMATES CON'T.

B.S. 6 (234 cm - 7.8 ft.) -15^{o}

0 - 92 commercial 'B-' grade, fair color, few fracturs, uvarovite inclusions	3.1 feet
92 - 160 commercial 'C' grade, greyish-black inclusions, increased fracturing	
160-234 schistose, fractured, weathered, few minor 'eyes' of commercial grade.	

B.S. 7 (289 cm - 9.6 ft.) -22^{o}

0 - 3 weathered	
3-58 commercial 'B-' grade, few black inclusions and fractures with minor weathering.	1.8 feet
68-71 white "contact rock" or vein zone	
71-82 weathered	
82-99 commercial, light green 'B' grade, few black inclusions	0.6 feet
99-178 weathered	
178-209 commercial 'C' grade, fractures, greyish-black inclusions	1.0 feet
209-214 weathered	
214-241 sub-commercial, grey fractures, black inclusions	
241-254 white brecciated "contact rock"	
254-261 weathered	
261-274 same as 214-241	
274-289 weathered, schistose	

B.S. 8 (260 cm - 8.7 ft.) -42^{o}

0-136 commercial	4.5 feet
0-86 B-/C+, increasing fractures, grey color and inclusions with depth	
86-136 C/C-, grey, fractured, black inclusions	
136-260 weathered to talcy at end	

.../9

DRILLING AND RESERVE ESTIMATES CON'T.

B.S. 9 (246 cm - 8.2 ft.) -28°

0-92 commercial 'B/C+'	3.0 Feet
92-97 weathered	
97 major fracture	
97-105 weathered	
105-123 commercial 'C+', black inclusions, fractures, slightly grey	0.6 feet
123-246 weathered to talcy	

The intersections in lens B.S.-D from holes B.S. 6 - B.S. 9 when projected to a depth of 6 feet give an estimate of 24.7 tons of 'B-' average grade.

B.S. 10 (170 cm - 5.7 ft.) boulder	8.3 tons
weathered and talcy except for two "eyes" less than 10 cm.	
B.S. 11(160 cm - 5.3 ft.) boulder	5 tons
0-10 weathered	
10-28 commercial 'B-'	
28-90 weathered	
90-140 talcy to talc	
140-160 serpentinite with white veins	
Estimate 10% 'B-' grade 0.5 tons	
B.S. 12 (70 cm - 2.3 ft.) boulder	
highly schistose, mostly "contact rock", few centimeter sections of poor nephrite	
B.S. 13 (35cm - 1.2 ft.) boulder	
weathered and schistose	
B.S. 14 (92 cm - 3.0 ft.) boulder	10 Tons
0-10 weathered	
10-60 weathered zones, schistose commercial for few centimeters	
60-70 grey, talcy, weathered	
70-92 talc	
B.S. 15 (105 cm - 3.5 ft.) same boulder as B.S. 14	
0-10 weathered	
10-20 sub-commercial	
20-90 weathered schistose	
90-105 talc	
B.S. 16 (105 cm - 3.5 ft.) boulder	8.2 Tons
totally weathered and fractured	

.../10

IV. DISCUSSION OF RESULTS

The major occurrence of nephrite located to date is the B.S.-D Lens. Drilling has shown 24.7 tons of 'B-' grade jade. This is a probable tonnage based on 6 feet of vertical exposure. A further downward projection of 3 feet would add a possible 12.3 tons for a total estimated reserve of 37 tons.

The boulders drilled in 1979 showed 4.1 tons of 'B' and 7.5 tons of 'C' grade. Considering the number of boulders located and not tested (Fig. 2) these figures could easily be doubled for possible reserves of 11.6 tons with no assigned grade. This gives a total reserve for boulders of 23.2 tons, or an overall reserve of about 60 tons.

In addition, there are about 4 tons of reserves in a boulder by the B.S.-A lens which was tested in 1978. The location of this boulder and others nearby suggests proximity to a buried lens.

Several lenses also remain untested and the limited exposures of serpentinite contact leave much room for the location of further nephrite deposits.

V. CONCLUSIONS AND RECOMMENDATIONS

There are over 60 tons of possible and probable reserves of nephrite ranging from C to B+ grade. Geological mapping has shown a potential for considerably more deposits.

The B.S. 1 and 2 claims should be mapped in detail to determine the favorable conditions for location of lenses. Magnetometer surveying would enable projection of buried contacts and location of favorable targets for trenching and drilling.

Respectfully submitted,
TRI-CON MINING LTD.

Alex Homenuke

A.M. Homenuke, P. Eng.

COST STATEMENT

FEES - A.M. Homenuke, P. Eng.		
July 30, Sept. 9, Sept. 16, 1979		
3 days supervision, mapping, core logging	at $250 per day	$ 750.00
Report 3 days	at $250 per day	$ 750.00
- C. Lee, Dipl. T.		
Sept. 9, 11-16, 1979		
7 days mapping and prospecting at $150 per day		$1,050.00
DRILLING - July 30, Sept. 12-16, 1979		
6 days driller at $200 per day		$1,200.00
6 days helper at $100 per day		600.00
bits, fuel and equipment rental		500.00
HELICOPTER - Transport men, equipment from Kutcho Creek and haul water for drilling		
July 30 Hughes 500D 1 hour at $320		320.00
Sept. 9-16 Hiller Soloy 6 hours at $290		1,740.00
ROOM AND BOARD - 22 man/days at $25 per day		550.00
SECRETARIAL, DRAUGHTING AND MATERIALS		150.00
	TOTAL*	$7,610.00

* NOTE: The total shown on the Statement of Exploration and Development was $7,305.00. Slightly higher final helicopter billing and one extra day on report account for this difference.

CERTIFICATE OF QUALIFICATIONS

I, ALEXANDER M. HOMENUKE, DO HEREBY CERTIFY:

1. THAT I am a member in good standing of the Association of Professional Engineers of British Columbia.

2. THAT I received the Degree of Bachelor of Science in Geological Engineering from the Colorado School of Mines in 1974.

3. THAT I received a Diploma of Technology in Mining from the B.C. Institute of Technology in 1969.

4. THAT I have been employed in various aspects of mining exploration for 10 years and am presently employed by Tri-Con Mining Ltd. of 1540 - 1066 West Hastings Street, Vancouver, B. C.

5. THAT I presently reside at 29825 Harris Road, Mt. Lehman, British Columbia.

6. THAT this report is based on work supervised or conducted by myself.

Dated at Vancouver, British Columbia this 15 day of November, 1979.

Al Homenuke

A.M. Homenuke, P. Eng.
Geological Engineer

CERTIFICATE OF QUALIFICATIONS

I, CLARENCE CAMERON LEE, do hereby certify,

1. That I received a diploma of technology in mining from the British Columbia Institute of Technology in 1971.
2. That I have worked in the mining industry for 9 years.
3. That I was employed by Cry Lake Jade Mines Ltd. for the 1979 mining season.
4. That I presently reside at 4290 - 272 Street, Aldergrove, B. C.

Dated at Vancouver, British Columbia this 9th day of November, 1979.

Clarence Cameron Lee

Clarence Cameron Lee, Dipl. T.