42A01SW0007 OP92-566 BOMPAS

REPORT ON
STRIPPING AND DRILLING PROGRAMS
DIABASE DIKE PROPERTY
EBY TOWNSHIP
LARDER LAKE MINING DIVISION
ONTARIO

A. Black
November, 1992

42A01SW0007 OP92-566 BOMPAS

TABLE OF CONTENTS

	Page No.
INTRODUCTION	
LOCATION/ ACCESS	1
HISTORY	1
GEOLOGY	1
PURPOSE OF PROGRAM	2
DESCRIPTION OF PROGRAM	
STRIPPING and WASHING	2
DRILL PROGRAM	2
RESULTS OF PROGRAM	
STRIPPING and WASHING	3
DIAMOND DRILLING	3
CONCLUSION	3 - 4
RECOMMENDATIONS	4
APPENDICES	
LOCATION MAP/ CLAIM MAP	i
GEOLOGY/ STRIPPING/ DDH MAP	ii
DRILL SECTION	iii
DRILL LOGS (2 pages)	iv

INTRODUCTION

Location/ Access:

The property herein described consists of two contiguous 32ha mining claims covering the south half of Lot 11, Concession I, Eby Township, Larder Lake Mining Division, Ontario. The claims are numbered 1180037 and 1185691.

Highway 66 traverses the property about seven miles southwest of the junction of Highways 66 and 11 at Kenogami. A poorly maintained dirt road leads west from Highway 66 across the northwest quarter of the property.

History:

The area was mapped by Howard Lovell in 1967 and 1968.

In 1991, a limited amount of stripping was undertaken by the author and the preliminary width of the dike was determined to be an average of fifty feet, with few apparent fractures. Samples taken and polished revealed a uniform glomeroporphyritic texture, consistent across the dike except for finer grained zones at the granite contact. The NE trend of the exposed contact between diabase and granite is inconsistent with H. Lovell's mapping and indicates branching of the dike. (See A. Black, Kirkland Lake Resident Geologist's Assessment Files, Report on Stripping, November, 1991.)

GEOLOGY

The claims are mostly underlain by granitic rocks of the Round Lake Batholith. A small package of highly altered mafic metavolcanics straddles the south boundary of the property along the Blain - Eby Township line. A diabase dike of the Matachewan group intrudes both the granite and metavolcanics. The dike strikes N-S through the centre of the property and branches to the N-E 30' east of the line post which is 1312' between the #2 and #3 posts of claim #1180037. This particular diabase dike is noteworthy in that it has a glomeroporphyritic texture consisting of pale green-stained feldspar phenocrysts in a greenish/black matrix. The polished result is very aesthetically appealing.

PURPOSE OF PROGRAM

The purpose of the 1992 program of stripping and diamond drilling is to further evaluate the commercial potential of the diabase dike and to confirm the original estimate of 2.5 million cubic feet of easily quarryable material. The stripping and washing is necessary to confirm over a longer length the earlier estimated average width of 50 feet and to confirm the consistency of the porphyritic texture and better expose cooling fractures. Diamond drilling is necessary to establish at depth the width and consistency of the dike, as well as fracturing.

A prospecting jaunt is planned to determine the continuity of the dike in a southerly direction.

DESCRIPTION OF PROGRAM

Stripping and Washing

A John Deere 792 Excavator with a 1.8 yard bucket was contracted for ten and one half hours, (June 8th and 9th, 1992) to expand the previous years stripping, (the same contractor was used). Outcrop was exposed on the west edge of the previous year's by 100' in a southwesterly direction and 90' in a northwesterly direction. Two hundred and fifty feet in length was stripped along the N-E branch, from 30' to 50' in width. Supervision of the hoe was carried out by the author or M. Leahy, during the two days.

One day of washing was performed by A. Black and R. Howe, after the drilling program was completed, using the driller's hose, pump and water tank.

Drill Program

Initially, in order to maintain fairness among the local drilling contractors, bids were tendered for the drill program; the lowest price received the contract.

Two 250 foot holes were drilled over a period of eleven days, by R. Yost and Co., from June 19th to June 29th. Hole 1 was drilled due south, at 45^0, from the line post midway between post numbers one and two of claim number 1180037. Hole 2 was drilled perpendicular to the dike (northwest), at 45^0, about 70' due east and 50' northeast from the same post. The author supervised and logged the core during this period; the core was closely examined for fracturing and pyrite content.

Prospecting and sampling was carried out for 750' south, on a flagged BL0, by the author and M. Leahy, on June 18th.

RESULTS OF PROGRAM

Stripping and Washing:

The diabase-granite contact was followed for 250' N-E down a convoluted hill (lift of about forty feet) and from 30' - 50' wide. The contact formed the easterly edge of the stripping which uncovered smooth mounds of diabase and large boulders. Washing proved the consistency of the glomeroporphyritic texture and the 'steps' the mounds form would make bulk sampling easy.

On the west edge of the original area of stripping a 100' area to the southwest was cleared to reveal diabase; the 90' area to the northwest revealed 50' of diabase and the remaining 40', granite.

Prospecting south on BL0 revealed diabase outcrop from 320'S to 550'S, width up to 110' and flanked on the west by granite, and diabase from 600'S to 750'S, up to 120' wide with metavolcanics on either side. Some samples bore pale green phenocrysts up to 3".

Diamond Drilling:

Hole 1 was drilled close to the east edge of the south branch of the dike and intersected granite and fine-grained diabase. The last 42' were medium to coarse grained, light green feldspar phenocrysts up to 3cm in width in a dark green matrix, the best looking of the hole.

Hole 2 intersected desirable diabase for 100', to a depth of 140' where granite took over. This section of diabase had much less fracturing and less noticeable pyrite. The granite looks as though it might have commercial potential, as well.

CONCLUSION

The 1992 stripping and drilling programs enhanced the attractiveness of this quarry prospect tremendously. Pyrite rarely exceeds 1% throughout the drill sections which is critical to the commercial potential of the diabase. Some fracturing was evident although it did not dampen the enthusiasm of one quarryman's appreciation of the core, during a property visit. It can be safely said the previous estimate of 2.5 million cubic feet of quarryable material is valid.

CONCLUSION, cont'd.:

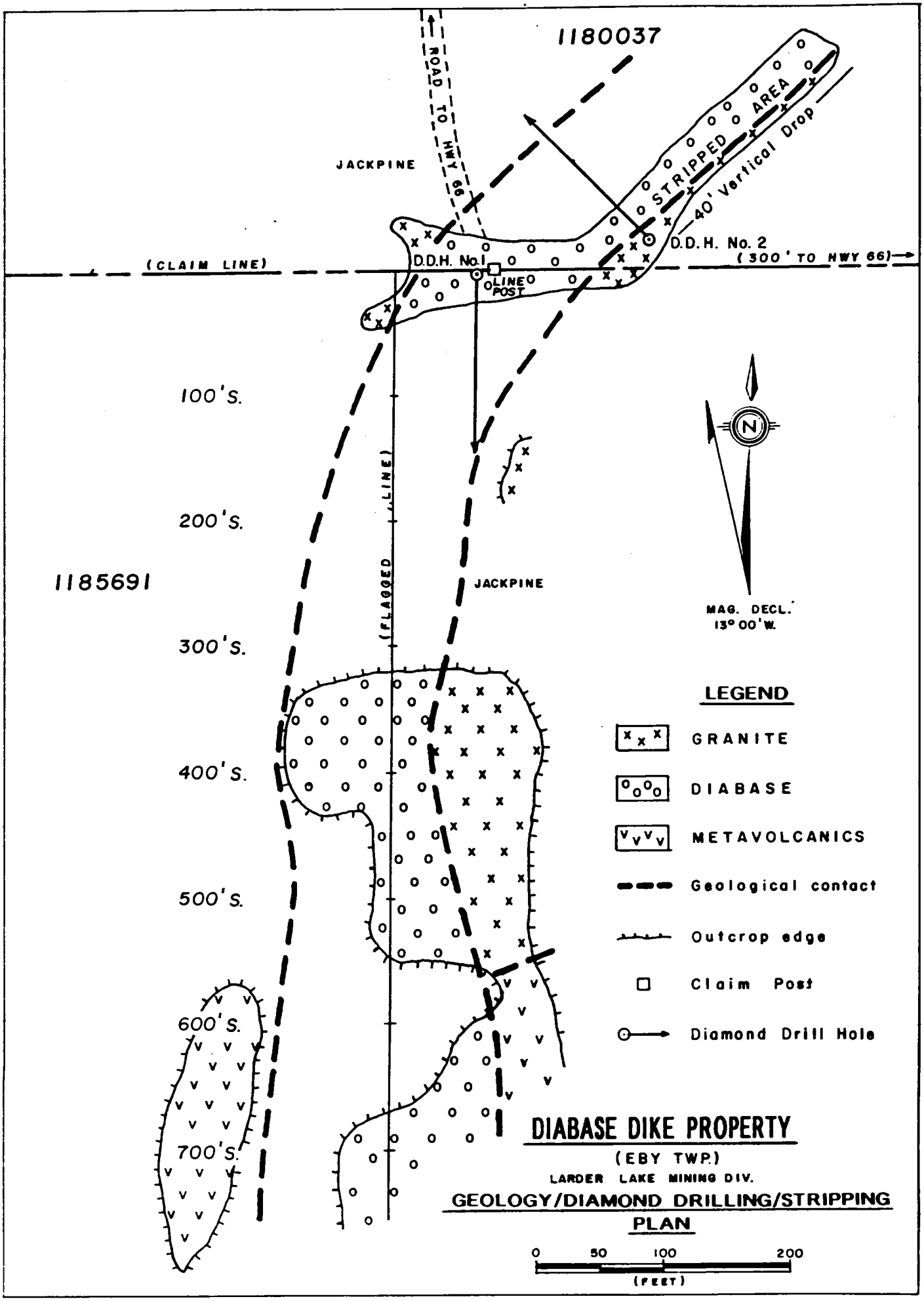
(The property visit was requested after approximately 100 kilograms of diabase samples were taken for initial test cutting and polishing after last year's Stripping Program. The material was cut into several slabs approximately 25mm in thickness, then polished using conventional granite polishing equipment. The diabase cut and polished well; power consumption during cutting indicated the material had a consistency similar to granite. No chemical analysis was undertaken at that time.)

RECOMMENDATIONS

Based on the above-mentioned testing the quarry company recommended several blocks of at least 1 cubic metre be extracted, slabbed and test samples be prepared for testing at a recognized laboratory to ensure the product meets with A.S.T.M. standards for building stone. Once the quality of the product has been established, it was recommended the polished samples of the slabs be distributed throughout the marketplace.

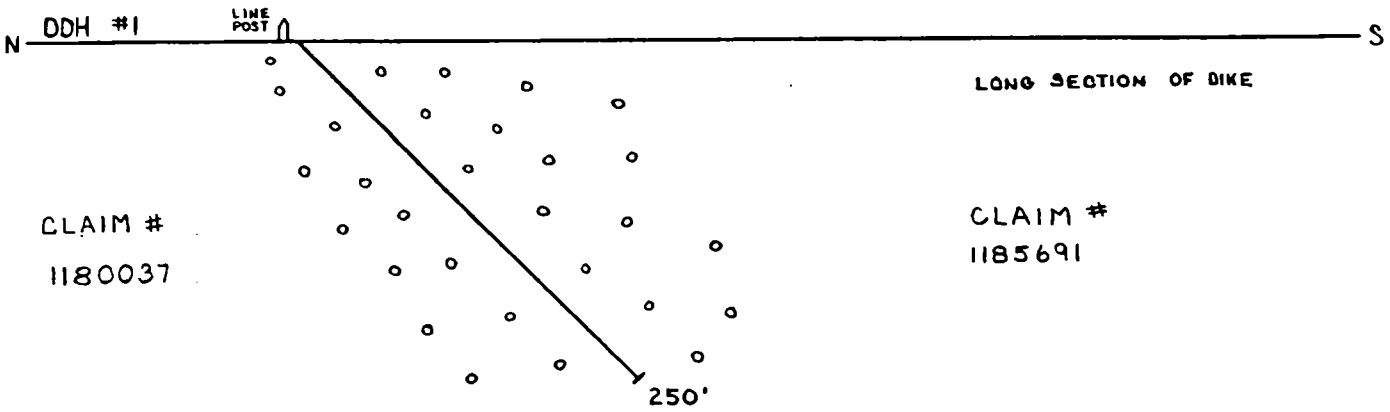
It was anticipated the quarry company would act on these recommendations prior to closing a deal; therefore, no more OPAP money was expended. (A Ministry of Transportation application for Entrance Permit was purchased by the author, with the expectation the quarry company would be removing bulk samples.)

Since the above-recommended testing was not carried out the following is recommended for next year's program: sample block extraction, slabbing, sample preparation, laboratory testing, petrographic studies and market testing. A very limited drill program would still be needed to establish tonnage prior to production.


1180037
ROAD TO HWY 66
JACKPINE
STRIPPED AREA
40' Vertical Drop
D.D.H. No. 2
D.D.H. No.1
(CLAIM LINE)
(300' TO HWY 66)
LINE POST
100's.
200's.
300's.
400's.
500's.
600's.
700's.
1185691
(FLAGGED LINE)
JACKPINE
N
MAG. DECL.
13° 00' W.
LEGEND
GRANITE
DIABASE
METAVOLCANICS
Geological contact
Outcrop edge
Claim Post
Diamond Drill Hole
DIABASE DIKE PROPERTY
(EBY TWP.)
LARDER LAKE MINING DIV.
GEOLOGY/DIAMOND DRILLING/STRIPPING PLAN
0 50 100 200
(FEET)

DIAMOND DRILL SECTIONS
DIABASE DIKE PROPERTY
EBY TWP.

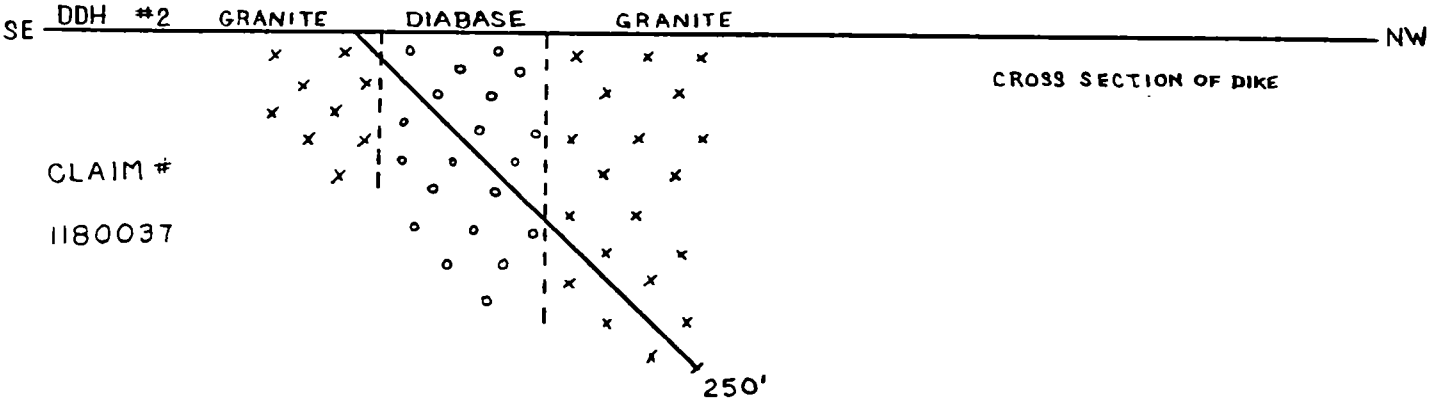
1 (FEET) 200



LONG SECTION OF DIKE

CLAIM # 1180037

CLAIM # 1185691



CROSS SECTION OF DIKE

CLAIM # 1180037

LEGEND	
o	DIABASE
x	GRANITE
AZIMUTH DIRECTIONS ASTRONOMIC	

December 29th, 1972 Chas Black

SM.54.2887

Appendix iv

DIAMOND DRILL RECORD

Hole No. 1 Sheet No. 1

Property Diabase Dike
Location Eby Township, Larder Lake Mining Division, Ontario
Latitude
Departure
Bearing 180°

Dip 45°

Total Footage 250'

Elev. Collar
Datum
Date Started June 19th, 1992
Date Completed June 23rd, 1992
Drilled by Rick Yost Drilling & Exploration Ltd.
Logged by Ann Black

Footage From	Footage To	Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
0	20	Diabase- glomeroporphyritic - coarse to medium-grained						good 20'
20	38	Diabase - medium grained pink matrix						bad 18'
38	117	Diabase - glomeroporphyritic - coarse to medium grained						good 79'
117	118	Diabase breccia - orange calcite and quartz matrix						bad 1'
118	130	Diabase - fine grained						bad 12'
130	185	Diabase - glomeroporphyritic - medium to coarse-grained - light green feldspar phenocrysts up to 3cm in dark green matrix						good 55'
185	208	Diabase - fine-grained						bad 23'
208	250	Diabase - glomeroporphyritic - medium to coarse-grained - light green feldspar phenocrysts up to 3 cm in dark green matrix						good 42'

Date of Examination June 22 - 24th, 1992

SM-54-2887

Appendix iv

DIAMOND DRILL RECORD

Hole No. 2 Sheet No. 2

Property Diabase Dike
Location Eby Township, Larder Lake Mining Division, Ontario
Latitude
Departure
Bearing 315°

Dip 45°

Total Footage 250'

Elev. Collar
Datum
Date Started June 23rd, 1992
Date Completed June 29th, 1992
Drilled by Rick Yost Drilling & Exploration Ltd.
Logged by Ann Black

Footage From	Footage To	Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
0	4	Casing						bad 4'
4	19.5	Granite - quartz & amphibole in pink to creamy feldspar matrix - medium-grained						bad 15.5'
19.5	40	Diabase - fine-grained - chilled margin						bad 20.5'
40	140	Diabase - glomeroporphyritic - medium to coarse-grained - light green feldspar phenocrysts up to 3 cm in dark green matrix						good 100'
140	250	Granite - quartz & amphibole in pink to creamy feldspar matrix - medium-grained						has potential

Date of Examination June 25-29th, 1992

TRIM LINE

Grenfell Twp. M 351

Burt Twp. M.334

Blain Twp. M 418

MGS FILE 16864

Kenogomi Lake

CROWN LAND SALE

LOCATED LAND

LEASES

LICENSE OF OCCUPATION

MINING RIGHTS ONLY

SURFACE RIGHTS ONLY

ROADS

IMPROVED ROADS

KINGS HIGHWAYS

RAILWAYS

POWER LINES

MARSH OR MUSKEG

MINES

CANCELLED

GRAV F.55787

GRAVEL PIT F. 8469

Gravel F.5787

HYDRO LINE

CROSSED

LUP

1185454

1185912

1185911

1185910

1180037

1185691

12 11 10 9 8 7 6 5 4 3 2 1

VI V IV III II I

THE TOWNSHIP OF

EBY

DISTRICT OF TIMISKAMING

PORCUPINE MINING DIVISION

SCALE 1 INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc
LICENSE OF OCCUPATION	LO
MINING RIGHTS ONLY	MRO
SURFACE RIGHTS ONLY	SRO
ROADS	
IMPROVED ROADS	
KINGS HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

AREAS WITHDRAWN FROM STAKING

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

PLAN NO. M-345

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

K Kalamov

Rec'd Jun 25/89

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TRIM LINE