

84-# 66 - 11919

3/85

PERCUSSION DRILLING REPORT
ON THE KAREN 2 (Rec. No. 735)
MINERAL CLAIM

50° 38' N, 120° 29½' W, NTS 92I/9W

KAMLOOPS MINING DIVISION
AFTON OPERATING CORPORATION

BY

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SENIOR GEOLOGIST

March 1, 1984

Kamloops, B.C.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,919

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PERCUSSION DRILLING REPORT ON THE KAREN 2
(Rec. No 735) MINERAL CLAIM

50° 38' N, 120° 29½' W, NTS 921/9W

KAMLOOPS MINING DIVISION
AFTON OPERATING CORPORATION

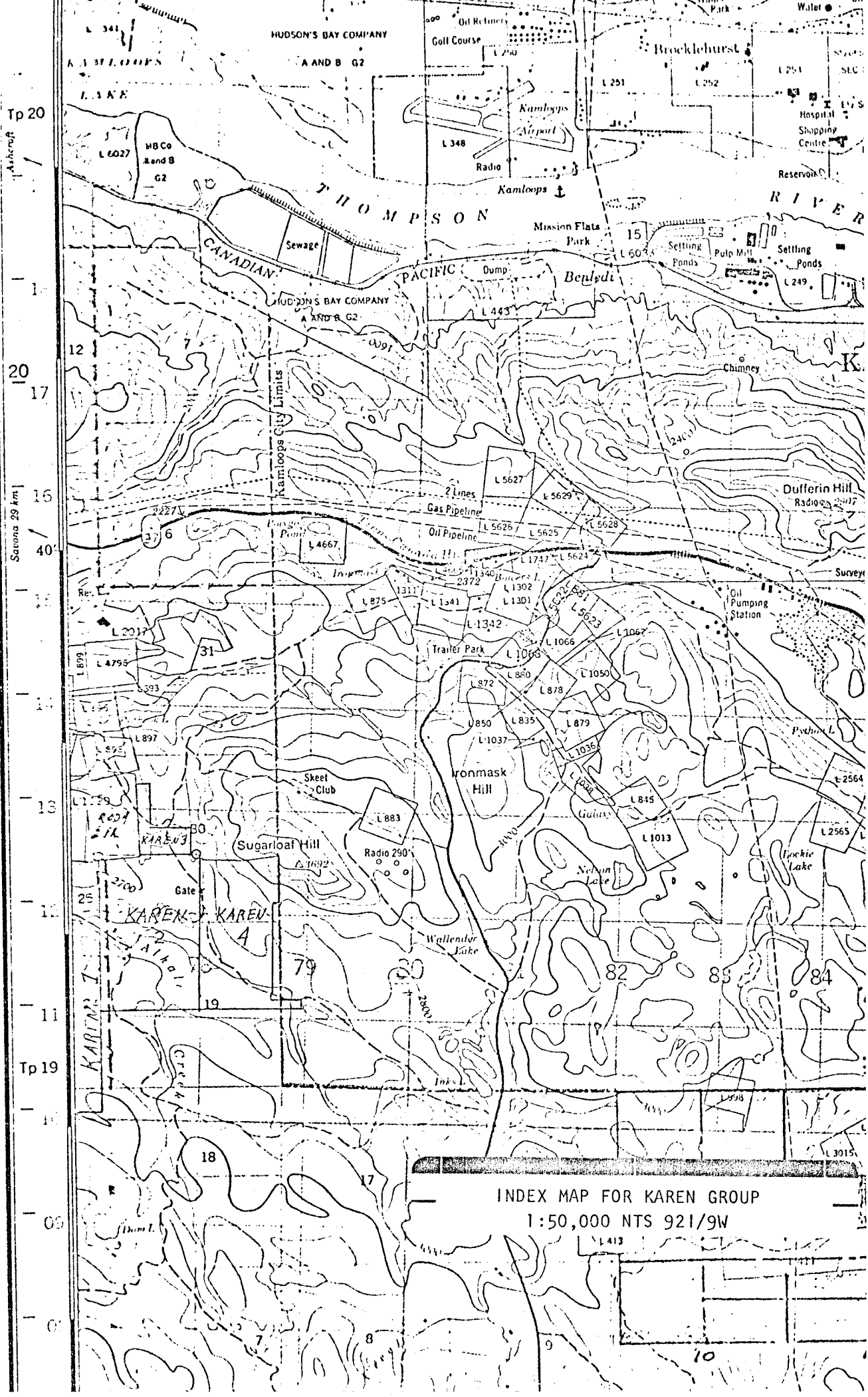
INTRODUCTION

The Karen 2 mineral claim forms part of the Karen Group of mineral claims consisting in total of:

Karen 1	Record No. 734	20 Units
Karen 2	Record No. 735	6 Units
Karen 3	Record No. 736	4 Units
Karen 4	Record No. 751	6 Units
Rod 4 Fraction	Record No. 14	1 Unit

The Karen Group is located approximately 13 km West of Kamloops, immediately West of Sugarloaf Hill and 1½ km Southeast of the Afton open pit mine. Access to the property is by all weather gravel roads from the Trans-Canada Highway and from the Kamloops-Logan Lake Highway.

The Karen claims were initially located in March, 1977 by A. J. Reed, Agent for Afton Operating Corporation. During the period February 7 to February 9, 1984, Afton Operating Corporation drilled one vertical percussion hole, 15cm. in diameter, to a depth of 85.3 meters. The objective of the program was to test a geochemical anomaly outlined in a survey conducted in July, 1977.



INDEX MAP FOR KAREN GROUP
1:50,000 NTS 921/9W

Tp 20
 20
 17
 16
 40'
 15
 14
 13
 12
 11
 Tp 19
 10
 09
 08

HUDSON'S BAY COMPANY
 A AND B G2
 L 348
 Kamloops Airport
 Radio
 Kamloops
 Thompson River
 CANADIAN PACIFIC
 Sewage
 Mission Flats Park
 15
 L 6027
 MBC Co
 Hand B
 G2
 Brocklehurst
 Hospital
 Shopping Centre
 Reservoir
 RIVER
 Settling Ponds
 Pulp Mill
 Settling Ponds
 L 249
 Hudson's Bay Company
 A AND B G2
 L 445
 Benledi
 Chimney
 Dufferin Hill
 Radio 2907
 Gas Pipeline
 Oil Pipeline
 L 5627
 L 5629
 L 5626
 L 5625
 L 5628
 L 1747
 L 5624
 Survey
 Oil Pumping Station
 L 2017
 L 895
 L 4755
 L 893
 L 897
 L 595
 L 1302
 L 1301
 L 1342
 L 1066
 L 1067
 L 1068
 L 872
 L 878
 L 850
 L 835
 L 879
 L 1037
 L 1036
 L 1035
 L 1067
 L 845
 L 1013
 L 2564
 L 2565
 Skeet Club
 Sugarloaf Hill
 Radio 290
 L 883
 L 1092
 Gate
 KAREN 3
 KAREN 4
 Wallender Lake
 Nelson Lake
 L 845
 L 1013
 L 2564
 L 2565
 L 3015
 L 413
 L 411
 18
 17
 8
 9
 10

DRILLING RESULTS

(Coordinates are Afton Minegrid)

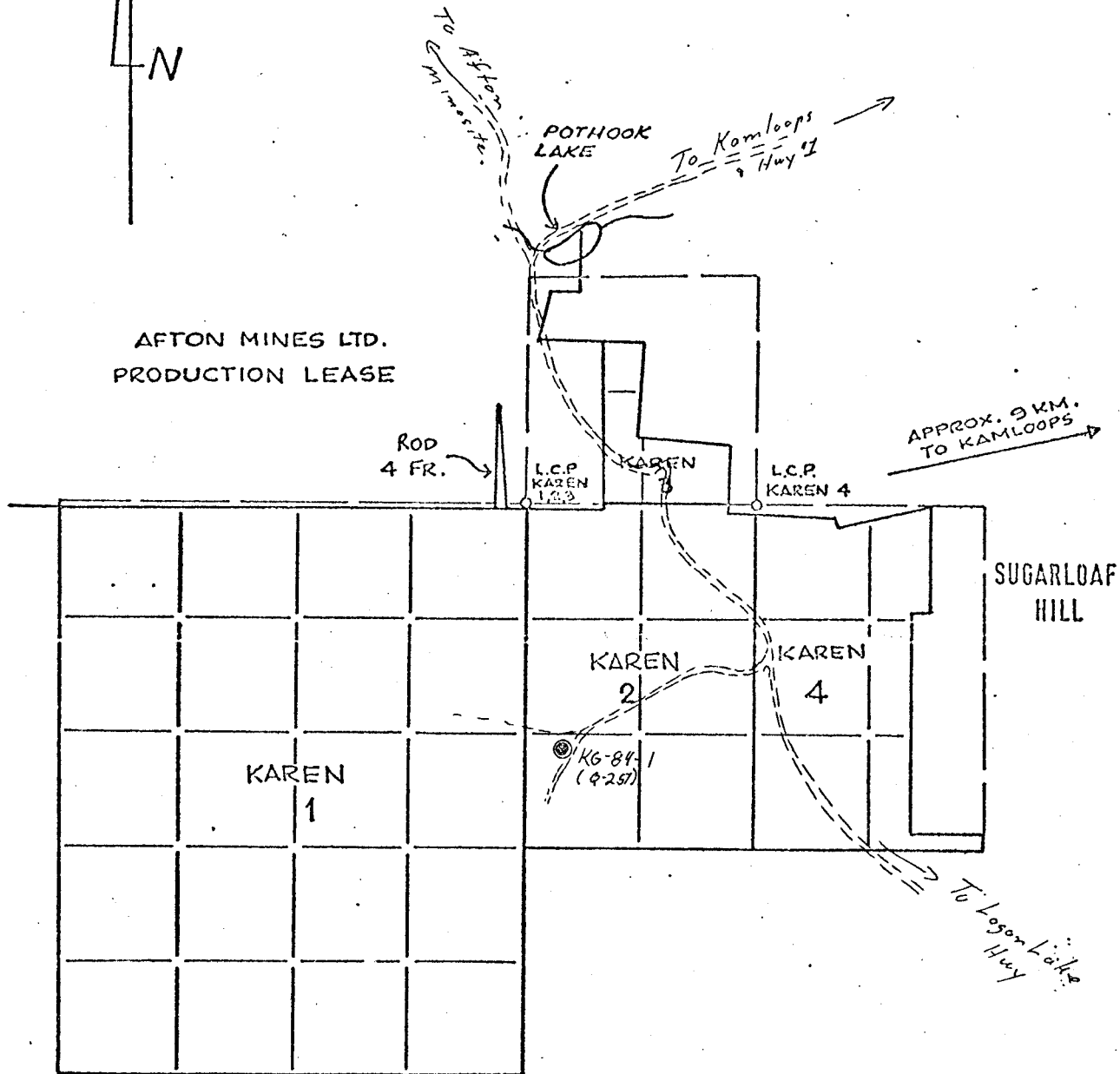
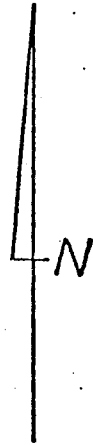
Hole No. Q-257 (Karen Group 84-1)

Latitude:	1960.03
Departure:	13027.61
Elevation:	2604.58
Depth of Bedrock:	19.8m
Total Depth	85.3m

Log:

0-19.8m	Overburden - glacial till
19.8m - 36.6m	Red-brown Nicola volcanics, locally porphyritic with cream-colored plagioclase phenocrysts; includes oxidized clay-rich zone from 21.3m - 24.4m, a probable fault zone; contains calcite-filled amygdules and stringers.
36.6m - 39.6m	Red-brown Nicola volcanics, porphyritic with augite and plagioclase phenocrysts; evidence of light-green epidote alteration.
39.6m - 45.7m	Probable fault or shear zone. Grey-green volcanics with hematitic clay-rich mud, some chips with striations suggestive of slickensides.
45.7m - 48.8m	Grey-green volcanics with disseminated pyrite (less than 1%)
48.8m - 54-9m	Fine-grained grey-green to red-brown volcanics, locally porphyritic, stringers of gypsum noted in interval 51.8 - 54-9m.

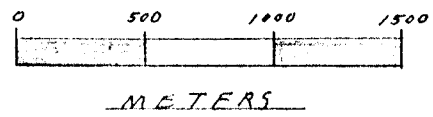
54.9 - 64.0	Fine-grained grey-green Nicola volcanics.
64.0m - 85.3m	Fine-grained green-grey crystalline rock; diorite intrusive rock of the Iron Mask complex. Plagioclase outlines blurred due to alteration; K-spar and possible minor quartz noted.
85.3m	End of hole.



● - Percussion Drill Hole Site

KEY-MAP OF THE KAREN CLAIMS

KAMLOOPS M.D., B.C.



SCALE 1:3000

HTS 92 I/9W

AFTON OPERATING CORPORATION

INTER-OFFICE LETTER

DATE: February 15, 1984

COPIES TO:

TO: Lorne Bond

FROM: Joe Mihalech

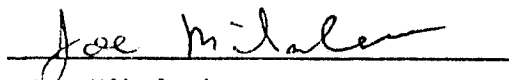
WHEN FEASIBLE, CONFINE LETTER
TO ONE SUBJECT

RE:

ASSAYS ON "KG - 84-1" DRILL SAMPLES

The following are assays obtained on drill samples KG - 84-1 received on February 10 and 13, 1984.

<u>SAMPLE</u>	<u>% Cu</u>	<u>SAMPLE</u>	<u>% Cu</u>
65-70	.008	170-180	.017
70-80	.007	180-190	.018
80-90	.012	190-200	.017
90-100	.013	200-210	.012
100-110	.008	210-220	.018
110-120	.007	220-230	.011
120-130	.012	230-240	.014
130-140	.018	240-250	.016
140-150	.006	250-260	.014
150-160	.014	260-270	.019
160-170	.017	270-280	.027



Joe Mihalech
Chief Assayer

STATEMENT OF COSTS

1. Drilling -	Sage Hills Well Drilling	
	90 ft. @ \$18/ft	\$1620.00
	180 ft. @ \$17/ft	3060.00
	Drive shoe 1 only	80.25
	Standby time (moving, set up)	42.50
2. Surveying -	Pick up hole, tie into Afton mine grid - W. Takashita 1 day	175.00
3. Assaying -	11 samples - assayed for Cu. @ \$8.25 per sample	90.75
4. L. A. Bond, Geologist -	Plan program, supervise drilling, collect and log samples, surveying, report preparation	
	7 days @ \$200/day	\$1400.00
	Total Costs	<u>\$6468.50</u>

STATEMENT OF QUALIFICATIONS

I, Lorne Allan Bond, of the City of Kamloops, British Columbia do hereby certify that:

1. I am a qualified, practising mining geologist.
2. I am a graduate of Loyola College (University of Montreal) with a B. Sc. (1967) in Geotechnical Sciences.
3. I have practised my profession since 1967 while employed with Sherrit-Gordon Mines Ltd., Cominco Ltd. and Afton Operating Corporation.
4. This report describes a percussion drill program performed under my supervision between February 7 and February 9, 1984.

Lorne Bond,
Senior Geologist
Afton Operating Corporation
1st March, 1984