

83-#61-#11339

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,339**

PERCUSSION DRILLING REPORT ON THE  
KAREN 2 (Rec. No. 735), KAREN 3  
(Rec. No. 736), AND KAREN 4 (Rec.  
No. 751) MINERAL CLAIMS

50° 33' N, 120° 29½' W NTS 92I/9W

KAMLOOPS MINING DIVISION  
AFTON OPERATING CORPORATION

by

LORNE A. BOND  
SENIOR GEOLOGIST

1st March, 1983

Kamloops, B.C.

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PERCUSSION DRILLING REPORT ON THE  
KAREN 2 (Rec. No. 735), KAREN 3  
(Rec. No. 736), AND KAREN 4 (Rec.  
No. 751) MINERAL CLAIMS

50° 38' N, 120° 29½' W NTS 921/9W

KAMLOOPS MINING DIVISION  
AFTON OPERATING CORPORATION

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INTRODUCTION

The Karen 2, 3 and 4 mineral claims form 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 14, 1983, Afton Operating Corporation drilled three vertical percussion holes, 5 cm. in diameter for a total length of 241 meters. The objective of the program was to test geophysical and geochemical anomalies outlined in surveys conducted in July, 1977.

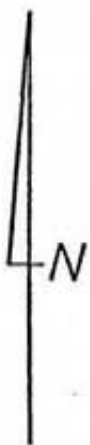


INDEX MAP FOR KAREN GROUP  
1:50,000 NTS 921/9W

### DRILLING RESULTS

(Coordinates are Afton Mine grid)

Q-253	Latitude:	4181.06
	Departure:	15416.43
	Elevation:	2685.40
	Depth to Bedrock:	24.4 m
	Bedrock:	Ironmask Diorite, up to 1% pyrite in last 15 m.; no copper mineral- ization
	Remarks:	Hole stopped in faulted, blocky ground at 58 m.
	Total Depth:	58 m
Q-254	Latitude:	4915.08
	Departure:	14666.05
	Elevation:	2643.96
	Depth to Bedrock:	18 m
	Bedrock:	Ironmask Diorite with trace amounts of pyrite; no copper mineralization
	Total Depth:	91.5 m
Q-255	Latitude:	5953.63
	Departure:	14749.84
	Elevation:	2613.90
	Depth to Bedrock:	18 m
	Bedrock:	Ironmask Diorite with ½% pyrite and 1-2% magnetite
	Total Depth:	91.5 m

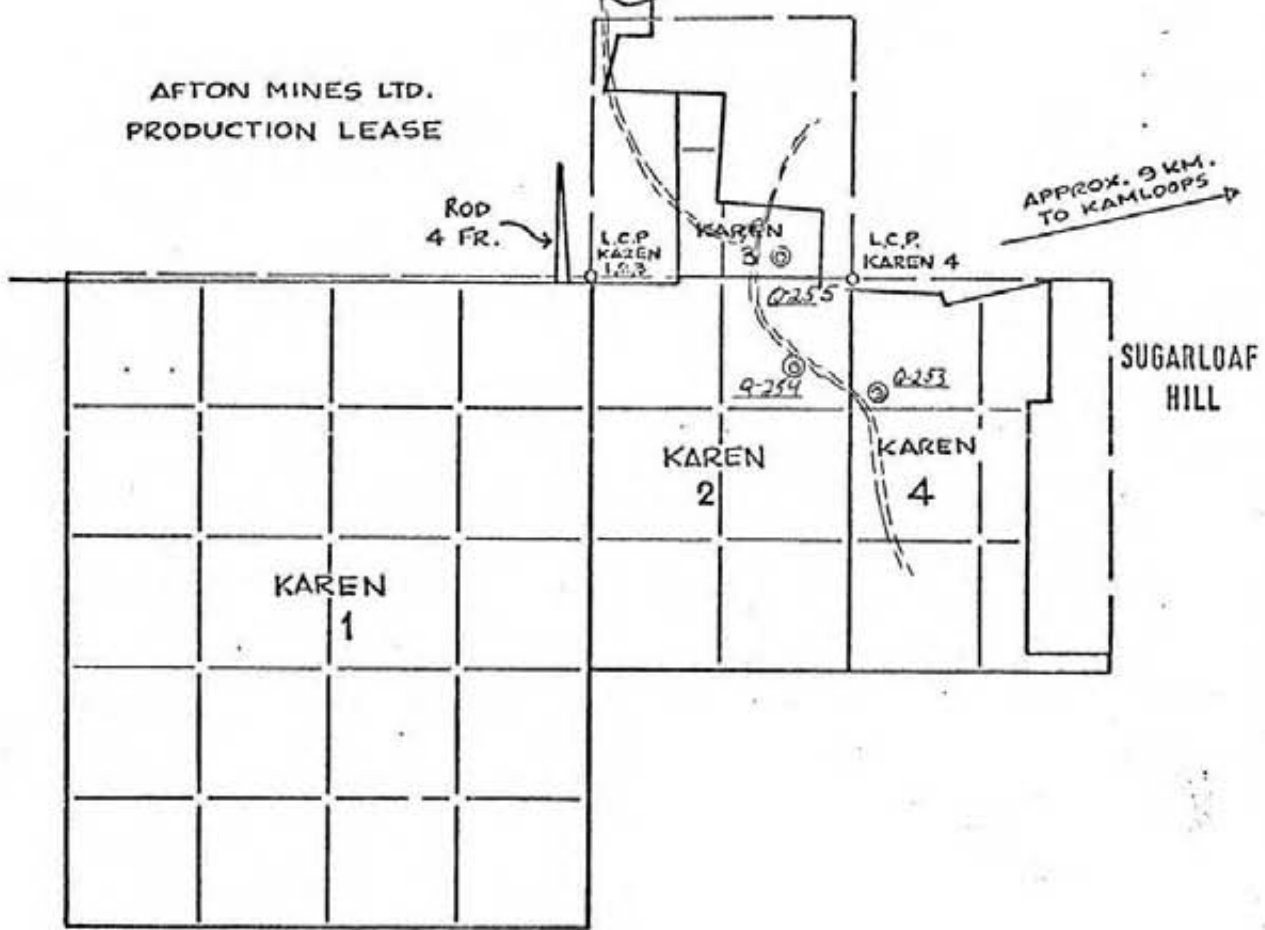


To AFTON  
Plant site:  
POTHOOK  
LAKE  
To Kamloops

AFTON MINES LTD.  
PRODUCTION LEASE

ROD  
4 FR.

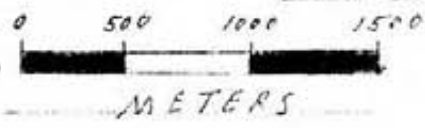
APPROX. 9 KM.  
TO KAMLOOPS



SUGARLOAF  
HILL

⊙ - Percussion Drill Hole Location

### KEY-MAP OF THE KAREN CLAIMS



KAMLOOPS M.D., B.C.

SCALE 1:3000

NTS 92 I/9W



# AFTON OPERATING CORPORATION

P.O. BOX 937  
KAMLOOPS, B.C.  
V2C 5N4

TELEX: PURCH. 048-8326  
ADMIN. 048-8327  
PHONE: (604) 374-5022

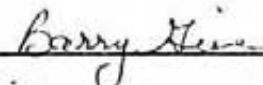
15th February, 1983

## CERTIFICATE OF ASSAY

**ATTENTION:** Lorne Bond

I hereby certify that the following are the assays performed in Afton's laboratory upon the herein described percussion drill chip samples.

<u>Hole No.</u>	<u>Footage</u>	<u>Cu %</u>
Q-253	80- 90	0.009
	90-100	0.008
	100-110	0.013
	110-120	0.014
	120-130	0.006
	130-140	0.007
	140-150	0.008
	150-160	0.011
	160-170	0.010
	170-180	0.011
	180-190	0.011
Q-254	60- 70	0.013
	70- 80	0.012
	80- 90	0.012
	90-100	0.009
	100-110	0.009
	110-120	0.008
	120-130	0.008
	130-140	0.007
	140-150	0.005
	150-160	0.004

  
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Registered Assayer  
Province of B.C.



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PHONE: (604) 374-5022

17th February, 1983

## CERTIFICATE OF ASSAY

ATTENTION: Lorne Bond

I hereby certify that the following are the assays performed in Afton's laboratory upon the herein described drill chip samples.

<u>Sample Hole</u>	<u>Footage</u>	<u>Cu %</u>
Q-254	160-170	0.003
	170-180	0.004
	180-190	0.006
	190-200	0.005
	200-210	0.005
	210-220	0.006
	220-230	0.008
	230-240	0.009
	240-250	0.007
	250-260	0.010
	260-270	0.010
	270-280	0.006
	280-290	0.017
	290-300	0.017

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Registered Assayer  
Province of B.C.





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PHONE: (604) 374-5022

22nd February, 1983

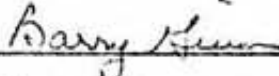
## CERTIFICATE OF ASSAY

ATTENTION: Lorne Bond

I hereby certify that the following are the assays performed in Afton's laboratory upon the herein described drill chip samples.

<u>Sample No.</u>	<u>Footage</u>	<u>% Cu</u>
Q-255	60- 70	.004
	70- 80	.002
	80- 90	.006
	90-100	.006
	100-110	.006
	110-120	.007
	120-130	.006
	130-140	.007
	140-150	.006
	150-160	.005
	160-170	.004
	170-180	.005
	180-190	.004
	190-200	.005
	200-210	.004
	210-220	.003
	220-230	.005
	230-240	.006
	240-250	.005
	250-260	.009
	260-270	.009
	270-280	.009
	280-290	.008
	290-300	.011

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Registered Assayer  
Province of B.C.

STATEMENT OF COSTS

1. Surveying	- Establish survey control, locate sites, pickup holes W. Takashita, 2 days K. Smith, 1 day	\$ 340.00
2. Drilling	- Tonto Drilling Co. Ltd. 790 feet x \$7.75 per foot moving, pulling casing - 3 hrs. @ \$75 per foot	6,122.50 225.00
3. Assaying	- 59 samples assayed for Cu @ \$6.75 per sample	398.25
4. L. A. Bond, Geologist	- Plan program, Supervise drilling, collect and log samples, prepare report 10 days @ \$175 per day	1,750.00
	Total Costs	<u><u>\$8,835.75</u></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 14, 1983.



Lorne Bond,  
Senior Geologist  
Afton Operating Corporation  
1st March, 1983