

LOG NO: 0816	RD.
ACTION:	
FILE NO:	

BULK SAMPLE ANALYSIS AND MILLING FLOW SHEET

ON THE

BLACK PRINCE & EARLY GROUP

SLOCAN MINING DIVISION

N.T.S. 82F 14W

49° 47'N; 117° 20'W

Jack Howard
Pacific Golden Spike Resources Ltd.
(Option)

FILMED

Operator - Pacific Golden Spike Resources Ltd.

Consultant - Fred Burgess
Nesmont Precious Metals Corporation

Author - E. Leimanis

Vancouver, B.C.

July, 1989

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,966

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MAPS

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INTRODUCTION

This report was prepared at the request of the Directors of Pacific Golden Spike Resources Ltd. to assess the feasibility of shipping existing dumps to the Standard Mill (formerly the Ottawa Mill), some seven miles distant.

LOCATION AND ACCESS

The property is located in the Slocan Mining Division, about 9 km due east of Slocan City, about 2 km northwest of Arlington Peak. The claims cover the southerly-facing slopes of the headwaters of Crusader Creek, though direct access is best via the Springer Creek Road.

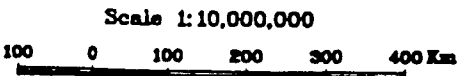
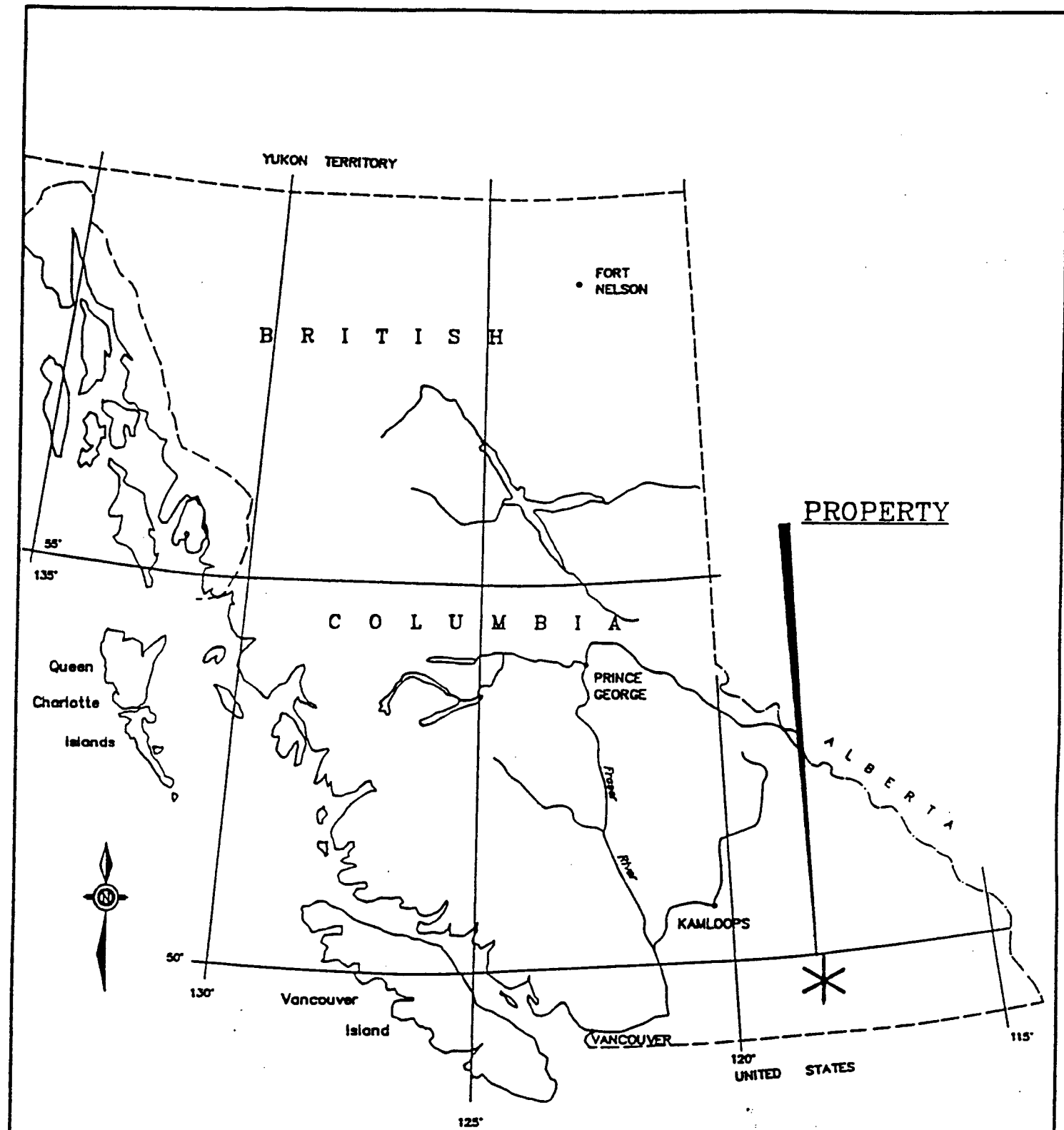
Coordinates for the property are:

49° 47'N; 117° 20'W

Road access to the property is best accomplished via the Springer Creek Road, a four-wheeled vehicle drive of about 10 km from Slocan City.

PROPERTY

The property consists of five reverted Crown Grants collectively known as the "Black Prince Group", contiguously surrounded by the 16 unit Early Claim.



PACIFIC GOLDEN SPIKE RESOURCES LTD.

BLACK PRINCE CLAIM GROUP

SLOCAN M.D.

LOCATION MAP

DATE
July '87

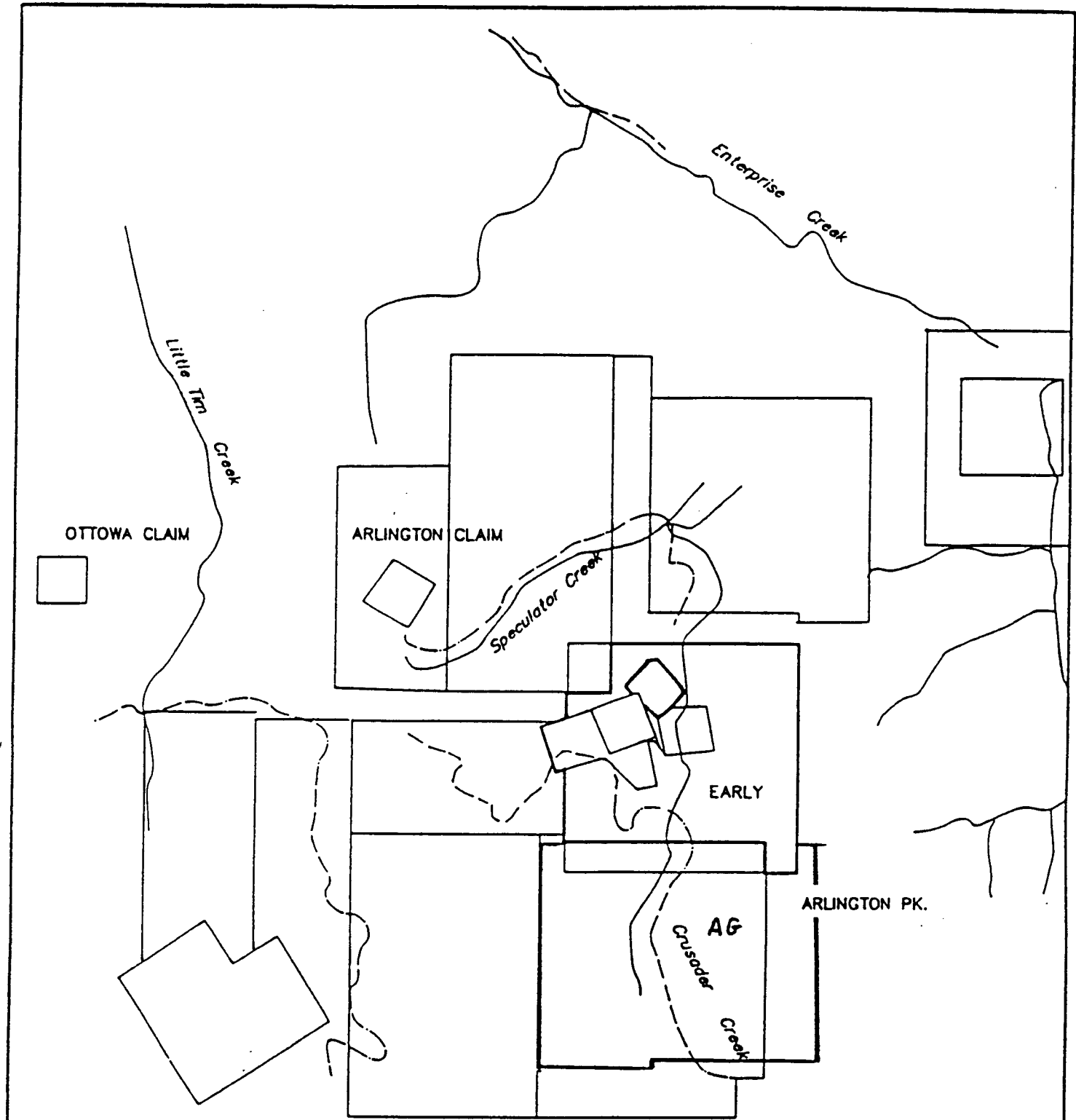
K.T.B.
BEF/14W

DRAWN BY:
GEO-COMP

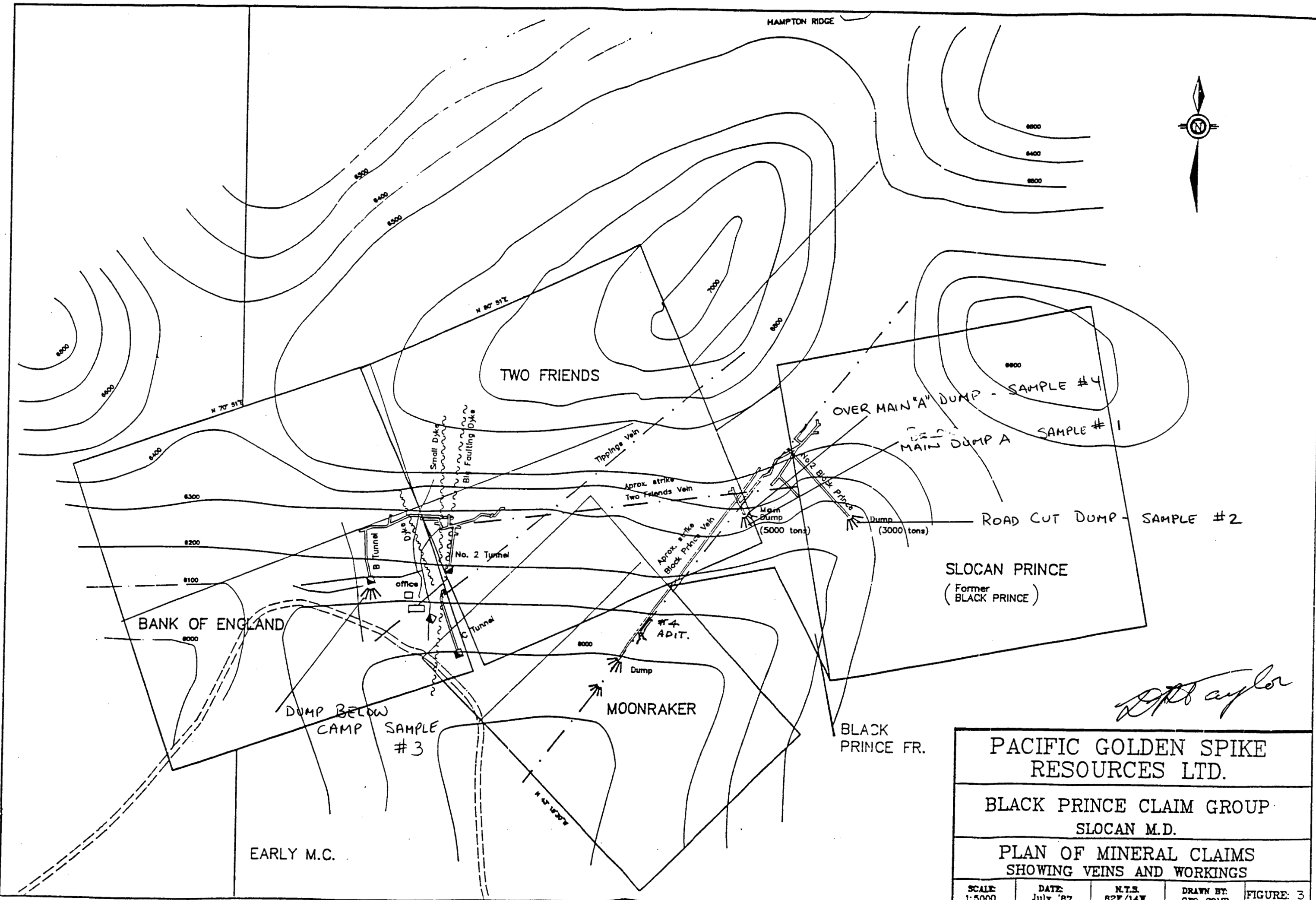
FIGURE 1

The claim is as follows:

<u>NAME</u>	<u>NUMBER</u>	<u>RECORDING DATE</u>
Early (16 units)	5046	July 22nd



PACIFIC GOLDEN SPIKE RESOURCES LTD.				
BLACK PRINCE CLAIM SLOCAN M.D.				
<i>CLAIM MAP</i>				
SCALE 1:60,000	DATE July '87	N.T.S. 827/148	DRAWN BY GEO-COMP	FIGURE: 2



PACIFIC GOLDEN SPIKE RESOURCES LTD.			
BLACK PRINCE CLAIM GROUP SLOCAN M.D.			
PLAN OF MINERAL CLAIMS SHOWING VEINS AND WORKINGS			
SCALE 1:5000	DATE July '87	N.T.S. 82F/14W	DRAWN BY: GEO-COMP
			FIGURE: 3

COST STATEMENT

Assaying, Crushing bulk samples, Technical analysis and Report preparation	\$2,400.00
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NESMONT
PRECIOUS METALS
CORPORATION

PLANT: 604-946-2266
#6-7950 Huston Road
Ladner, B.C. Canada V4G 1C2
SALES OFFICE: 604-683-8943

Report On Production Test of Bulk File No. 10784
Ore Sample Report No. _____
 Reported to Pacific Golden Spike Resources Ltd. Date December 18, 1988
1500-409 Granville Street
Vancouver, B.C. V6C 1T2
Attention: Mr. Emil Leimanis

We have completed testing of your "bulk ore" sample and reports as follows:

Sample Identification:

The sample was received as 4 samples in 2 barrels and 5 pails, and were labelled as follows: (net dry weights recorded after sampling.)

# 1	Main "A" Dump	386.14 lbs
# 2	Road Cut Dump	89.80 lbs
# 3	Dump Below Camp	119.70 lbs
# 4	Over "A" Dump	159.70 lbs

Method of Testing:

Each sample was crushed and split to sub-sample for assay. The balance of these four samples were combined to form a "Heads" sample for the production test.

Pacific Golden Spike Resources
December 18, 1988

This head sample of 755.34 lbs was milled to plus 95% minus 100 mesh, then subjected to bulk floatation using the following conditions and reagents:

Condition and Soda Ash to pH 9.5 to 10.0

Promotor	242	-:	0.20 lbs per ton
Xanthate	343	-:	0.15 lbs per ton
Dowfroth	250	-:	as required

Results of Testing:

Assays of Bulk Samples: (Dumps)

		Gold oz/ton	Silver oz/ton	Lead oz/ton	Zinc oz/ton	Iron oz/ton
		-----	-----	-----	-----	-----
#1	Main "A"	0.035	6.96	0.39	1.00	2.60
#2	Road Cut	0.021	12.91	0.45	0.67	2.50
#3	Below Camp	0.020	3.73	0.45	0.61	3.25
#4	Over "A"	0.034	7.87	1.48	3.08	2.90

Product Weights and Assays: (Precious Metals)

Product	Product Weight	Gold oz/ton	Silver oz/ton
-----	-----	-----	-----
Heads:	755.34 lbs	0.051	6.99
Concentrate:	25.59 lbs	1.28	154.46
Tailings:	729.75 lbs	0.006	1.74

Pacific Golden Spike Resources Ltd.
December 18, 1988

Concentration Ratio:

The concentration ratio on this test is 29.51 to 1.00 (i.e.)
29.51 tons of original material would be required to produce one
ton of "Concentrate".

Recovery and Precious Metals Distribution:

	<u>"GOLD"</u>		
	Gold mgms -----	% Dist -----	Gold mgms -----
Heads: -----			
755.34 lbs @ 0.051 oz/ton contains			599.09
Concentration: -----			
25.59 lbs @ 1.28 oz/ton contains	509.40	88.21%	<i>recovery.</i>
Tailings: -----			
729.75 lbs @ 0.006 oz/ton contains	68.09	11.79%	
	-----	-----	
	577.49	100.00%	577.49

			21.60

			Gold not accounted for
			- 3.60% or 96.40% accounted for.

Pacific Golden Spike Resources Ltd.
December 18, 1988

"SILVER"

	Silver mgms -----	% Dist -----	Silver mgms -----
Heads: -----			
755.34 lbs @ 6.99 oz/ton contains			82.11
Concentrate: -----			
25.59 lbs @ 154.46 oz/ton contains	61.47	75.70% <i>recovery</i>	
Tailings: -----			
729.75 lbs @ 1.74 oz/ton contains	19.74	24.30%	
	-----	-----	
	81.21	100.00%	82.11

			0.90

			Silver not accounted for
			- 1.10% or 98.90% accounted for.

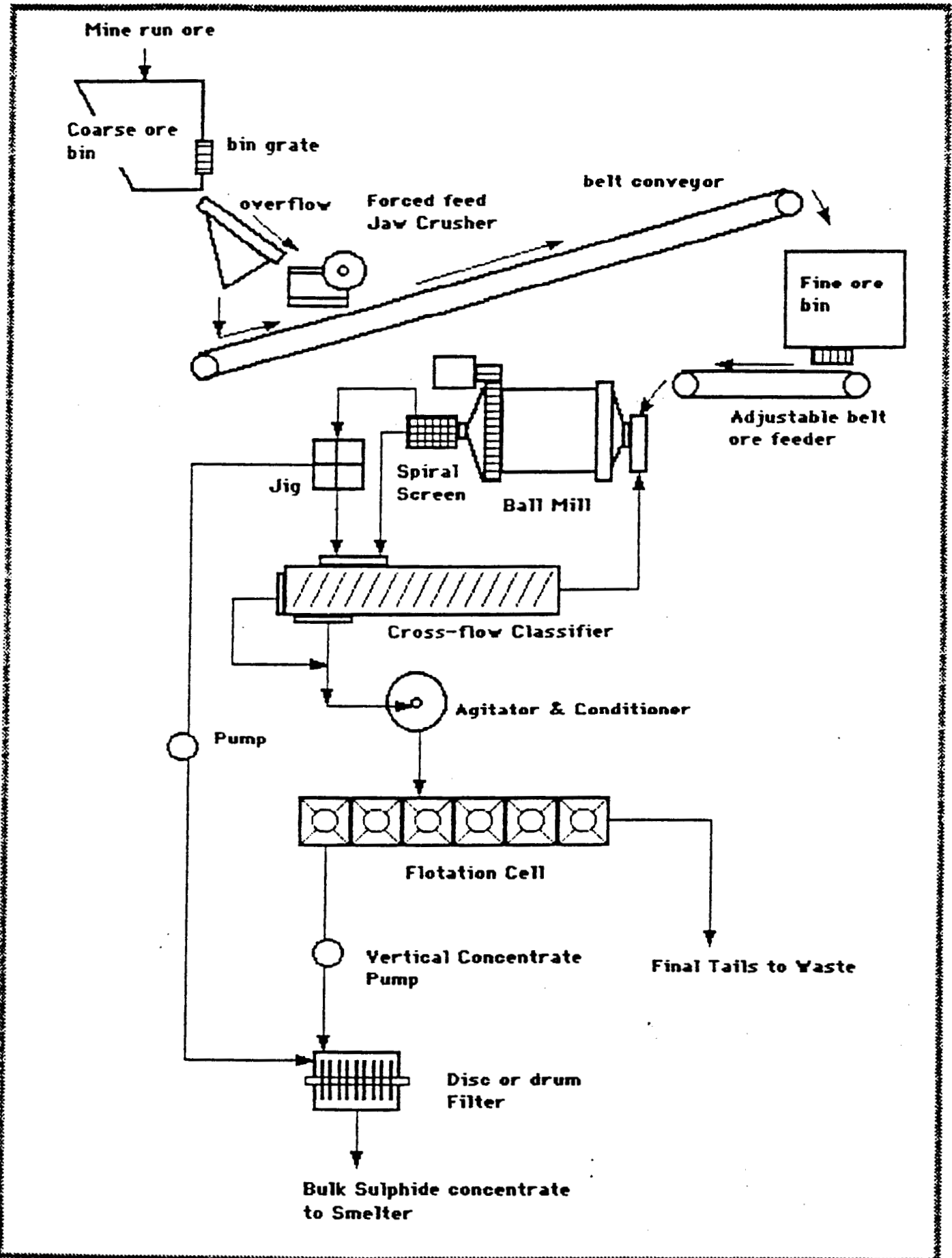
Remarks:

We did encounter some free gold and as a result have included a jig in the flow sheet. Assay Certificates for assays performed are attached herewith and forms part of this report.

NESMONT PRECIOUS METAL CORPORATION

Fred C. Burgess

Fred C. Burgess
Plant Manager
Chief Assayer



SMALL BULK SULPHIDE PLANT - FLOW CHART - for Au & Ag



NESMONT
PRECIOUS METALS
CORPORATION

Date: December 11, 1988

Control No. 10784

Page 1 of 2

Certificate of Assay

To:

Pacific Golden Spike Resources Ltd.

1500-409 Granville Street

Vancouver, BC

V6C 1T2

Attention: Mr. Emil Leimanis

We Hereby Certify that the following are the results of assays made by us upon submitted Bulk Ore samples.

Sample Identification	GOLD	SILVER	GOLD	SILVER	Lead	Zinc	Iron
	Ounces Per Ton	Ounces Per Ton	Percent	Percent	% Pb	% Zn	% Fe
#1 Main A Dump	0.035	6.96			0.39	1.00	2.60
#2 Road Cut Dump	0.021	12.91			0.45	0.67	2.50
#3 Dump Below Camp	0.020	3.73			0.45	0.61	3.25
#4 Over A Dump	0.034	7.87			1.48	3.08	2.90

Note: Pulps retained one month.

Rejects retained two weeks.

NESMONT PRECIOUS METALS CORPORATION

A. C. Burgess

Certified Provincial Assayer

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NESMONT
PRECIOUS METALS
CORPORATION

To:

Pacific Golden Spike Resources Ltd.

1500-409 Granville Street

Vancouver, BC

V6C 1T2

Attention: Mr. Emil Leimanis

Date: December 10, 1988

Certificate of Assay

Control No. 10784
Page 2 of 2

We Hereby Certify that the following are the results of assays made by us upon submitted Test Product samples.

Sample Identification	GOLD	SILVER	GOLD	SILVER				
	Ounces Per Ton	Ounces Per Ton	Percent	Percent				
<u>Test Products</u>								
Heads	0.051	6.99						
Concentrate	1.28	154.46						
Tailings	0.006	1.74						

Note: Pulps retained one month.

Rejects retained two weeks.

NESMONT PRECIOUS METALS CORPORATION


A. S. Burgess

Certified Provincial Assayer

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This report was prepared by me, and the Technical Report was prepared by Fred Burgess of Nesmont Precious Metals Corporation.

DATED at Vancouver, British Columbia, July 1988.


Emilie Leimanis