

15.37

ASSESSMENT REPORT
PERCUSSION DRILLING
ON THE
BARNATO CLAIM GROUP

Greenwood Mining Division
British Columbia
NTS 82E/7W
Latitude 49°~~35~~^{28.5}N
Longitude 118°~~54~~^{53.2}W

OPERATOR:

Golden Seal Resources Ltd.
1912 - 1700 West Hastings Street
Vancouver, B.C.

FILMED

OWNER:

Carmac Resources Ltd.
819 - 625 Howe Street
Vancouver, B.C.

MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES
Rec'd JUN 19 1986
SUBJECT _____
FILE _____
VANCOUVER, B.C.

CONSULTANTS

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811 - 850 West Hastings Street
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GEOLOGICAL BRANCH
ASSESSMENT REPORT

AUTHOR:

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DATED:

June 18, 1986

14,952

TABLE OF CONTENTS

	Page
SUMMARY OF SURVEY DATA	
1.0 SUMMARY	1
2.0 INTRODUCTION	2
2.1 Location and Access	3
2.2 Topography	3
2.3 Property Description	6-7
2.4 Mining History	7,9
3.0 GEOLOGY	
3.1 Regional Geology	9-10
3.2 Property Geology	11,12
3.3 Mineralization	13
4.0 1986 SURFACE PERCUSSION DRILLING PROGRAM	13-15
4.1 Description of Drill Hole Nos. 86-1, 86-2, 86-3 & 86-4	16-21
5.0 CONCLUSIONS	22
6.0 BIBLIOGRAPHY	23

TABLES & FIGURES

		Page
TABLES:		
Table 1:	Summary of Percussion Drilling Data - 1986	15

FIGURES

Figure 1:	Location Map	4
Figure 2:	Topography Map 82E/7W, Scale 1:50,000	5
Figure 3:	Claim Maps, Scale 1:50,000	8
Figure 4:	Regional Geology, Scale 1":4 miles	10
Figure 5:	Geology and 1986 Percussion Drill Hole Locations	Attach
Figure 6:	Percussion Drill Hole No. 86-1	17
Figure 7:	Percussion Drill Hole No. 86-2	18
Figure 8:	Percussion Drill Hole No. 86-3	19
Figure 9:	Percussion Drill Hole No. 86-4	21

APPENDICES:

- A. Statement of Costs
- B. Certificate of Qualification
- C. Laboratory Assay Results

SUMMARY OF SURVEY DATA
1986 Percussion Drilling Program
Barnato Property
Greenwood Mining Division
Westbridge, B.C.

TYPE OF SURVEY: Percussion Drilling

TYPE OF DRILL MACHINE: Model 3100, Grander Denver Airtrack; Atlas Copco Rod, Casing and 2" Bit, and 750 C.E.M. Ingersoll-Rand Compressor.

CAPACITY OF DRILL MACHINE: 91 - 122 meters

CLAIM GROUP: Barnato Crown-Granted Group, Kettle #1 and 2, Westbridge, B.C. Greenwood Mining Division.

DRILLED BY: H.D. Drilling Ltd., Kamloops, B.C.

TOTAL FOOTAGE DRILLED: 202.4 meters

AVERAGE DRILLING: 2.0 minutes per foot

PERCENTAGE OF FOOTAGE DRILLED BY WATER: 45.5%

PERCENTAGE OF FOOTAGE DRILLING AIR: 54.5%

COMMODITIES: Gold-Silver Mineralization

GEOLOGICAL ENVIRONMENT: Vein, disseminated sulphides within intrusive and volcanic rocks.

OWNER: Carmac Resources Ltd., and optioned to: Golden Seal Resources Ltd.

OPERATOR: Golden Seal Resources Ltd.

CONSULTANT: Gewargis Geological Consulting Inc.

FIELD PERSONNEL: Wilson A. Gewargis, Consulting Geologist

LABORATORY: Kamloops Research & Assay Laboratory Ltd.

TOTAL NO. OF SAMPLES: 131

1.0 SUMMARY

A total of 202.4 meters of percussion drilling was carried out on the Barnato Claim in May 1986. The objective of the drill program was to investigate the mineralization in two separate geological environments and evaluate the mineral potential of the Barnato Claim.

Three holes were drilled to investigate the nature of several exposed vein systems within the contact between the intrusive and volcanic rocks at the upper workings. The fourth hole was drilled to test a calcareous unit within the volcanic rocks at the lower workings.

The drilling on the upper and lower workings revealed scattered low grade mineralization within the intrusive, and the fourth hole failed to intersect any good mineralization within the calcareous unit.

Assay results for the above drilling show negligible gold values. Based upon these results, no further work is recommended in this area.

2.0 INTRODUCTION

The Barnato Property located north of Westbridge, British Columbia on the west side of the Kettle River, has been under geological investigation for many years. The writer first examined the property in June 1981 for Carmac Resources Ltd., and supervised a field program which consisted of reconnaissance mapping, prospecting, geophysical, geochemical surveys, trenching and blasting. The encouraging results from the above program led to the diamond drilling of five short holes on the property in 1981, and **one of these holes was drilled in the vicinity of the Barnato Claim.**

The recent percussion drilling by Golden Seal Resources Ltd. was conducted on the Barnato Claim between May 8 to 13, 1986 under the writer's supervision. The objective of this program was to acquire the necessary information pertaining to the nature and control of the mineralization on the Barnato Claim.

2.1 Location & Access (Figure 1)

The property is located in southeastern British Columbia, 33 kilometers north of Westbridge, British Columbia (Figure 1). The geographic coordinates of the property are 49°35' north latitude and 118°54' west longitude. Access to the property is via a steep logging road, (four-wheel drive vehicle is required) which branches off at the main Kettle River road in the Christian Valley, thirty-one kilometers north of Westbridge, then turn west on a logging road for a distance of 8.4 kilometers. Other alternative logging roads can access the property from various locations.

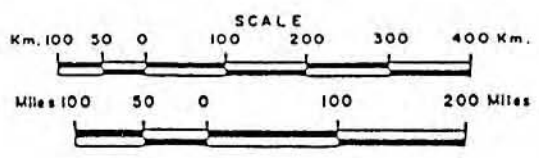
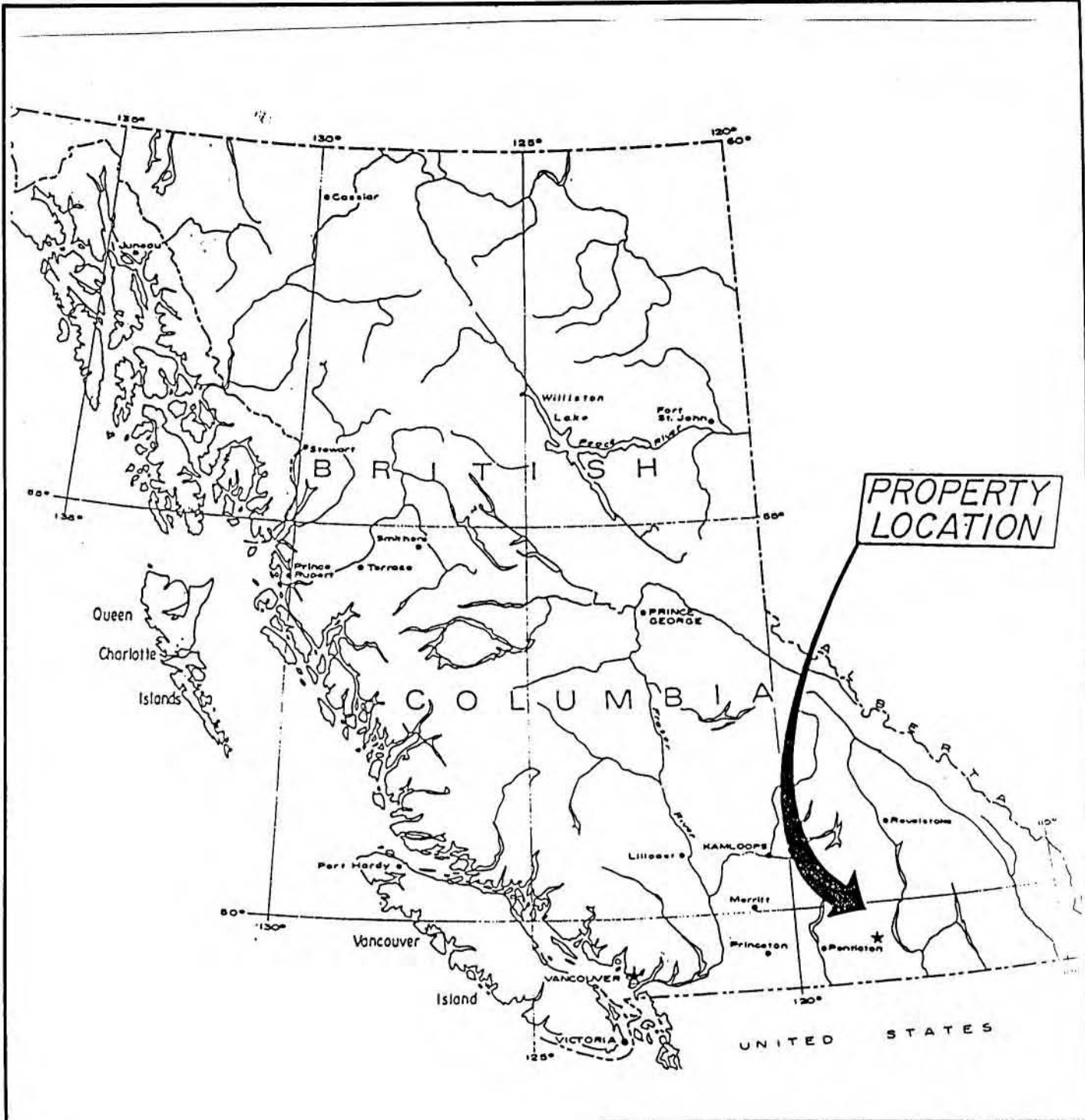
Summer and winter accommodations are available at the Double "E" Hunting Camp on the Christian Valley Highway, 20 kilometers north of Westbridge, a small village that has a grocery store which also supplies fuel and a public telephone. Accommodation is also available at Beaverdell which is 20 kilometers west of the property.

2.2 Topography (Figure 2)

The property is located in an area of moderate to steep terrain. Elevations range between 762 meters to 1219 meters, approximately 160 meters higher than the Kettle River, parallel to the Christian Valley Highway (Figure 2). The area is covered by 90% forest, mainly fir, spruce, pine, and in some areas the forest thins out.

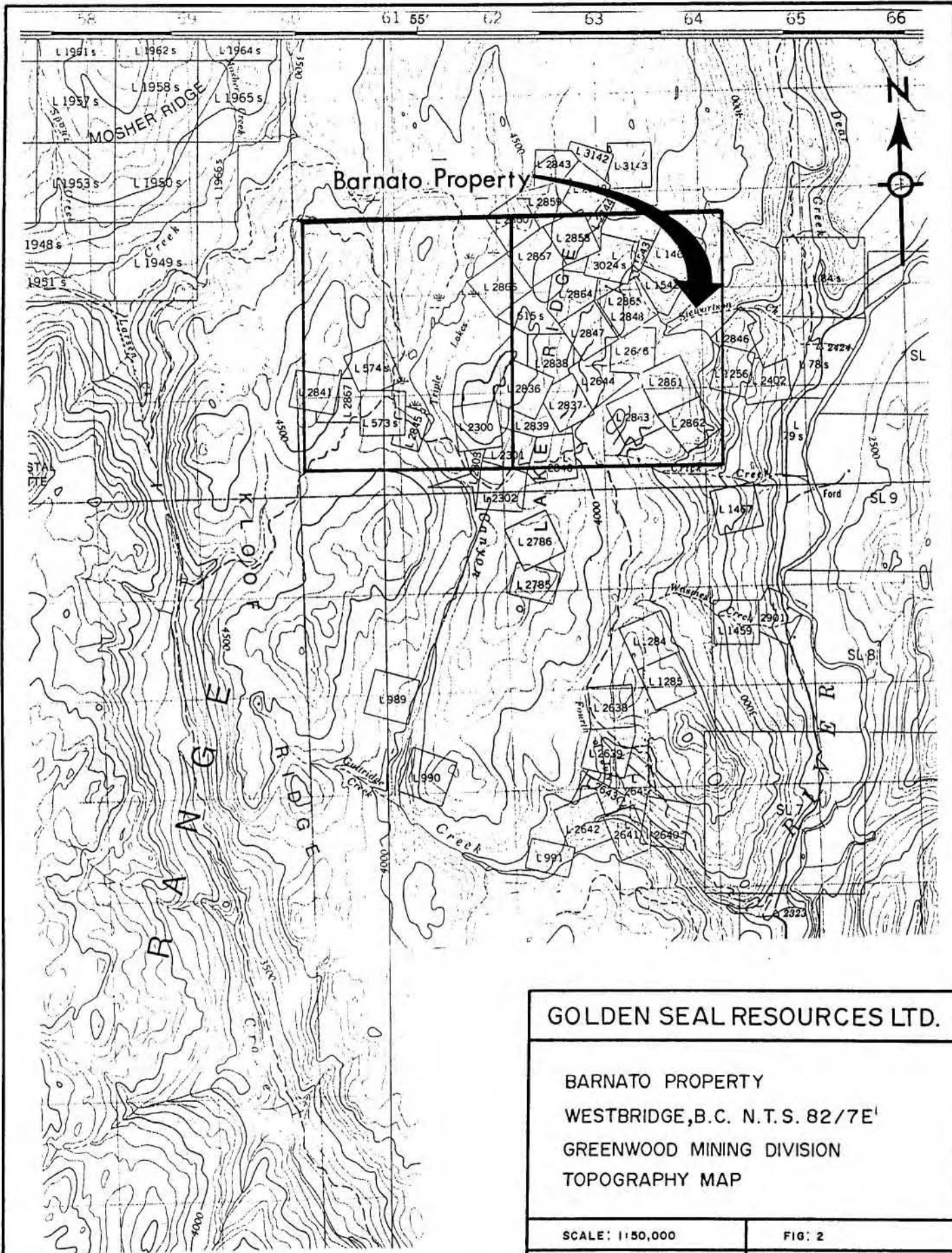
The climate of the region is typical of southeastern British Columbia with an average precipitation of 24.4 centimeters of rain and 104 centimeters of snow per year. The average temperature for the winter months is 1.0°C and for summer 15°C. The extreme high reached during the summer months was 37°C and the extreme low -6°C.

The property is snow-free from June to October. Water is available on the property from a few tributary creeks and lakes, and the known ones are the Stewartson and Grick Creeks and Triple Lake.



GOLDEN SEAL RESOURCES LTD.	
BARNATO PROPERTY WESTBRIDGE, B.C. N.T.S. 82/7E1 GREENWOOD MINING DIVISION LOCATION MAP	
SCALE:	FIG: 1
DRAWN BY: D.G.	DATE: JUNE, 1986

61 55' 62 63 64 65 66



GOLDEN SEAL RESOURCES LTD.

BARNATO PROPERTY
WESTBRIDGE, B.C. N.T.S. 82/7E¹
GREENWOOD MINING DIVISION
TOPOGRAPHY MAP

SCALE: 1:50,000

FIG: 2

DRAWN BY: D. G.

DATE: JUNE, 1986

2.3 Property Description (Figure 3)

The Barnato property comprises forty (40) claim units in the Greenwood Mining Division, (National Topographic System area 82E/7W) for a total of 1000 hectares (2471.2 acres). The geographic coordinates of the property are 49°35' north latitude and 118°54' west longitude.

The Kettle Claims #1 and #2 were staked between May 8 to 13, 1986 inclusive, and were recorded in Vancouver, British Columbia on May 16, 1986. These claims were staked on top of the Barnato group (29 reverted Crown-granted claims), (Figure 3).

The property consists of the following claims:.

NAME	UNITS	C.G.NO.	RECORD		AREA
			NO.	NO.	
Silver Dollar	1	2864	1582	5-22-79	18.78
Rambler	1	2842	1583	5-22-79	16.54
Hunter	1	2861	1584	5-22-79	20.90
Barnato Fr.	1	2865	1585	5-22-79	14.28
Hackla	1	2847	1586	5-22-79	3.14
Anchor	1	2866	1587	5-22-79	19.50
Denver	1	2862	1588	5-22-79	20.90
Champion	1	2863	1589	5-22-79	19.99
Utopia	1	2860	1590	5-22-79	19.38
Monetor	1	2858	1591	5-22-79	17.81
Yorkshire Lass	1	3024	1592	5-22-79	18.90
Silver Bell	1	2644	1593	5-22-79	19.08
Barnato	1	2848	1594	5-22-79	18.57
Kaffir King	1	2646	1595	5-22-79	20.69
Coin Fr.	1	615S	2444	10-27-80	18.12
OK	1	573S	1596	5-22-79	20.90
Kingston Fr.	1	2839	1822	10-27-80	12.02
North Star	1	2837	1823	10-27-80	17.05

- 7 -

NAME	UNITS	C.G.NO.	RECORD NO.	RECORD NO	AREA
Caledonia	1	2836	1824	10-27-80	20.88
Houston	1	2302	1825	10-27-80	20.25
Boston	1	2845	1828	10-27-80	9.85
Ivanhoe	1	5745	1829	10-27-80	20.04
Mona	1	2841	1830	10-27-80	17.50
Kingston	1	2300	1831	10-27-80	20.90
Mexico	1	2867	1832	10-27-80	11.05
Boston	1	2301	1833	10-27-80	14.71
Highland Mary	1	1462	1835	10-27-80	20.90
Coin Fr.	1	1459	1836	10-27-80	20.90
Montana Fr.	1	2645	1837	10-27-80	14.06
Kettle #1	20			05-16-86	5.00
Kettle #2	20			05-16-86	5.00

The writer examined the lines on the Kettle Claims #1 and #2 on May 13, 1986 and found them to be staked in accordance with the B.C. Mineral Claims Act.

The twenty-nine (29) reverted Crown-granted claims are owned by Carmac Resources Ltd. of Suite 819, 625 Howe Street, Vancouver, British Columbia.

2.4 Mining History

Mining and exploration work in the area of the Barnato Claims Group, date back to 1878, when gold mineralization was discovered between 1896 and 1897. In 1937-1938, a total of five cars of sorted ore with two cars averaging 84.9 tons and grading at 1.58 oz/ton Au, 0.23 oz/ton Ag and 10.17% As was shipped to the Tacoma Smelter by Stan Peterson of Grand Forks, British Columbia.

In August 1938, based on the strength of a small production and widespread mineralization, the property was optioned by Cominco who commenced a drilling and trenching program on the property. This program resulted in the discovery of 10 veins, all very continuous but generally narrow and low in grade (Refer to Cominco's

Progress Report No.3). The property option was terminated in November 1938.

From 1938 to 1965, there is no record of any work on the property. In 1965, Amcana Gold Mines carried out road improvements, claim survey, and completed a minor amount of surface trenching. A total of 21 tons were shipped to Tacoma.

In 1966, Amcana Gold Mines carried out a small diamond drill program which resulted in 4 short holes being drilled and also trenching. (B.C. Minister of Mines and Petroleum 1966, 1967 Reports).

In 1978, Carmac Resources Ltd. conducted a VLF Survey and trial Geochemical Survey on a portion of the Barnato group. In 1980, Carmac carried out an Airborne VLF-EM Magnetometer Survey and an intensive soil sampling survey, in which, 1260 soil samples were collected and assayed for gold and arsenic.

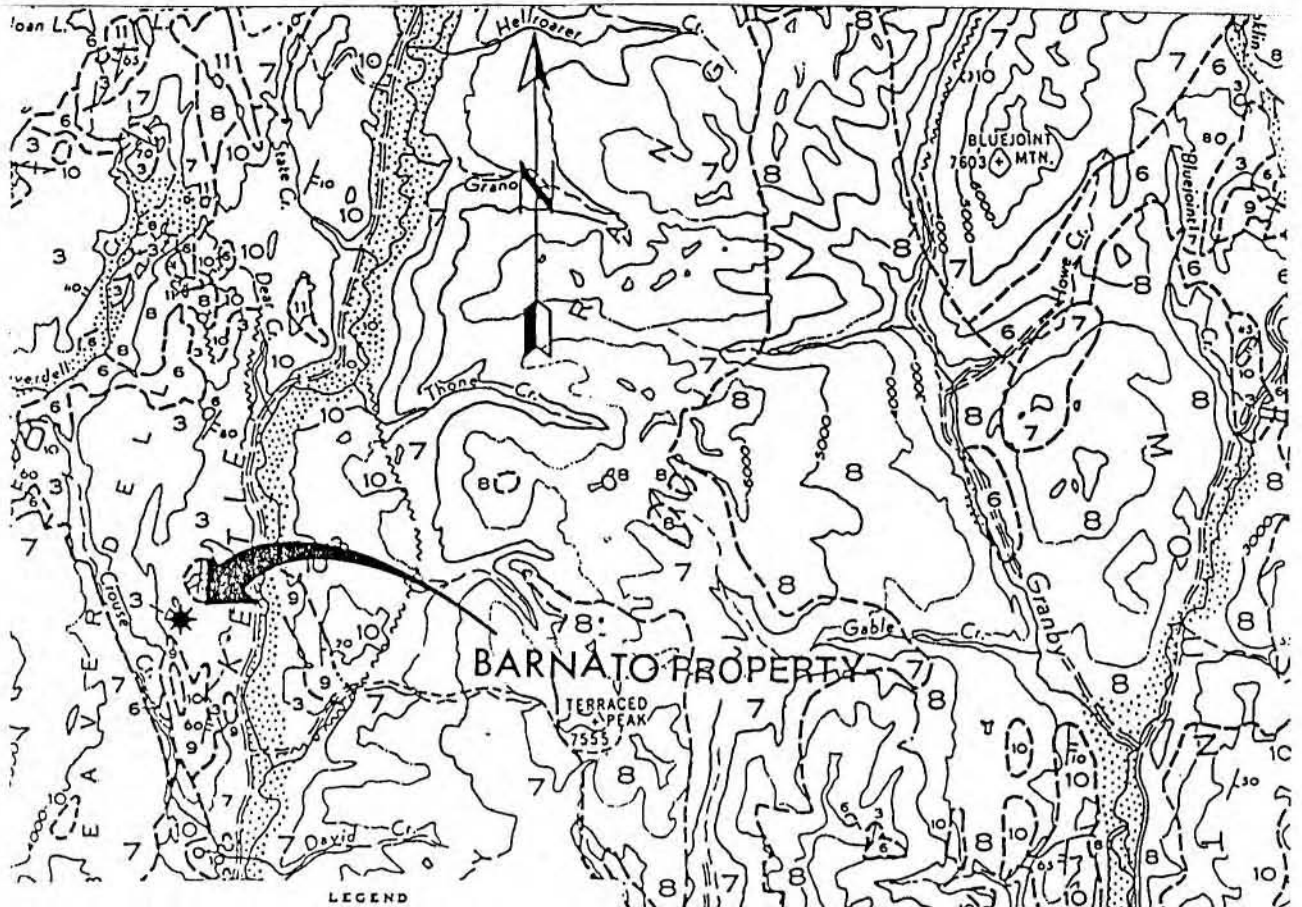
In 1981, a follow-up program was carried out by Carmac Resources Ltd., which included a detailed geophysical survey (both Magnetometer and Self-Potential), soil sampling, trenching, and reconnaissance mapping, prospecting on a large portion of the Barnato group, which included the Kettle #1 and #2 claims. In October 1981, four NQ diamond drill holes were drilled. No further work was done on the property until May 8, 1986, at which time Golden Seal Resources Ltd. completed a preliminary percussion drill program.

3.0 GEOLOGY

3.1 Regional Geology (Figure 4)

The regional geology of the area was described by Reinecke (1910, 1915) G.S.C. Memoir 79, No.65 Geological Series and, Geology by H.W. Little (1953-1956) Map 6 (1957).

The area has been described as being mainly underlain by Permian, part of the Anarchist group, which is the oldest known unit in the area. It consists of the metamorphosed andesitic tuff, chert and lavas, hornfels, rhyolite and locally sedimentary rocks. A series of intrusive porphyritic dykes of the Tertiary Kettle



LEGEND

- GENEOZIC**
 - TERTIARY MIOCENE(?)**
 - 11 Basalt, olivine basalt
 - PALEOCENE OR EOCENE**
 - PHOENIX VOLCANIC GROUP**
Andesite, trachyte; minor basalt; locally, interbedded tuff, shale, and/or siltstone
 - 10
 - KETTLE RIVER FORMATION:** rhyolite and dacite tuff; locally, conglomerate, sandstone, and shale; minor rhyolite flows and intrusive porphyritic rhyolite
 - 9
 - PALEOCENE(?)**
 - 8 **CORYELL INTRUSIONS:** syenite; monzonite, shonkinite and granite
- MESOZOIC**
 - CRETACEOUS(?)**
 - LOWER CRETACEOUS(?)**
 - 7 **VALHALLA INTRUSIONS:** granite, porphyritic granite
 - 7
 - 6 **NELSON INTRUSIONS:** granodiorite, porphyritic granite, diorite, monzonite, quartz monzonite
 - 6
 - 5 Ultrabasic intrusions, serpentinite
 - 5
 - JURASSIC**
 - 4 **ROGSLAND GROUP**
Andesite, tuff; agglomerate and flow breccia, minor graywacke
 - 4
- PALAEZOIC**
 - PERMIAN(?)**
 - ANARCHIST GROUP**
Greenstone, graywacke, limestone, paragneiss
 - 3
 - PENNSYLVANIAN AND/OR PERMIAN**
 - 2 **MOUNT ROBERTS FORMATION:** graywacke, greenstone, limestone, paragneiss
 - 2
- PROTEROZOIC (?)**
 - 1 **MONASHEE AND GRAND FORKS GROUPS**
Paragneiss; minor crystalline limestone and pegmatite
 - 1

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BARNATO PROPERTY
 WESTBRIDGE, B.C. N.T.S. 82/7E1
 GREENWOOD MINING DIVISION
 REGIONAL GEOLOGY

SCALE: 1" = 4 MILES

FIG: 4

DRAWN BY: D.G.

DATE: JUNE, 1986

River Formation, ranging in composition from quartz porphyritic to hornblende andesite porphyry, occurs throughout the area. These dykes are believed to be post mineralization and intrude the cretaceous intrusive (quartz diorite) and volcanic rocks. The trend of the volcanic rocks is poorly defined but appears to be north-northwest. The Anarchist Group is folded, and the main south valley of the Kettle River northward from Rock Creek contains strong shear zones that were initiated after the intrusion of the Nelson Batholith.

The 1986 exploration work in this area is an extension of previous work which concentrated in locating volcanic rock units and exploring these units around the intrusive contact for vein structures and disseminated sulphide mineralization.

To date, no detailed geological map is available on the Barnato Grid area. Most of the area is covered with overburden.

3.2 Property Geology (Figure 5)

A thin but extensive layer of glacial till covers most of the area of interest. The property geology has never been mapped systematically. It was only interpreted from a combination of mapping, a few visible outcrops mainly to the north within the intrusive and road cuts, trenches, and old workings. (Gewargis mapping, June 1981).

The area of drilling is underlain mostly by diorite-quartz with diorite to the north and a rhyolite-andesite unit to the south. In the vicinity of the mineralized area, dykes of various varieties intrude the quartz diorite and volcanic rocks. The trend of the volcanic rock is poorly defined, but appears to be northerly.

Four map units have been distinguished on the property. These include the West Kettle Stock (Unit 1), which comprises of quartz diorite or granodiorite. This unit is generally uniform in texture and ranges between mafic rich to poor, medium to coarse grained and locally porphyritic. This unit covered most of the northern portion of the Grid and the area of drilling mainly, Drill Hole #86-1, 86-2, and 86-3.

- 12 -

The volcanic rock (Unit 2) is predominantly fine to massive felsic to mafic rhyolite to andesite. This unit occurs northeast and northwest enveloping the surrounding intrusive dykes. Mineralization was found to be disseminated within the volcanic (Unit 2) in the trenching area.

The Calcereous (Unit 3) is light grey in color, fine to medium grained with disseminated fine pyrite mineralization. This unit occurs within the volcanic (Unit 2) and is observed in the lower working area where Hole 86-4 was drilled to intersect this unit.

The porphyritic dykes (Unit 4) has distinctive characteristics and is found in the middle of the drilling area within the volcanic (Unit 2) and intrusive (Unit 1). This unit is medium to coarse grained, light to dark-green in color and porphyritic in texture with 10 - 20% orthoclase phenocrysts and 15% fine grained mafic.

The phenocrysts range between a few millimeters to 0.5 centimeters in size. No significant mineralization has been found within this unit, and locally this unit is outcropping on the surface, particularly in the drilling area.

The following Table of Rock Formations for the Barnato Property was adapted from H.W. Little, (1953-1956), Map 6 - 1957.

PERIOD	EPOCH	FORMATION	AGE, MILLIONS	LITHOLOGICAL CHARACTERS
Tertiary	Miocene	Kettle River	5.3 - 23.7	Rhyolite, dacite minor flow and intrusive porphy- ritic rhyolite
Cretaceous	Early	Nelson Intrusion	97.5 - 144	Granodiorite, diorite, quartz monzonite
Permian		Anarchist	245 - 286	Greenstone, grey- wacke, limestone

3.3 Mineralization

Sulphide mineralization associated with the Barnato property occurs within two principal host rocks: First, the quartz diorite and second the adjacent volcanic rocks along the contact.

Disseminated and vein structure of pyrite, trace of pyrrhotite magnetic and chalcopyrite occurs in widely distributed zones within the above unit. The most extensive occurrence of sulphide mineralization is within the Barnato upper and lower workings. This area has been investigated since early 1898 and was drilled in 1938 by Cominco, in 1965 by Amcana and in 1981 by Carmac Resources. It was also the drill target for the May 1986 program.

Several zones of significant mineralization have been outlined by previous work, but are generally sporadic and occur as vein or disseminated sulphides within the intrusive, volcanic rocks, or along the contact between the intrusive and the volcanic rocks. The Barnato group may be host to two types of mineralization:

- **The first type** is associated with the Nelson intrusives which consist of pyrite, trace of pyrrhotite, magnetite and chalcopyrite which occur along the fractures or periphery to the intrusive complex and which are probably similar to a porphyry type mineralization.
- **The second type** of mineralization occurs within the volcanic unit, mainly within a more calcareous unit of the volcanic assemblages. Relatively little attention has been given to the economic potential of the paleozoic volcanic rocks of the Anarchist series. This unit is similar to the unit that is exposed in the Fairview camp, which has shown good gold production.

4.0 1986 SURFACE PERCUSSION DRILLING PROGRAM

The previous exploration work has outlined and confirmed the presence of gold-silver mineralization within the intrusive-volcanic contact. Several trenches and shallow underground workings are present on the property.

A percussion drill program was conducted on the Barnato's old upper and lower workings, which carry the highest gold values, and were also the major exploration target in the past. This program was designed as Phase I exploration work to evaluate this type of mineralization. Four percussion holes were drilled for a total footage of 202.4 meters (664 feet) of 2" bit diameter size. A summary of the drill hole coordinates and remarks is shown on Table 1 (Page 15).

The drilling was undertaken by H.D. Drilling Co. of Kamloops, British Columbia using a Model 3100 Grander Denver Airtrack with 2" bit. The program commenced on May 7, 1986 with the mobilization of the crew (2 drillers and helper), and was completed on May 13, 1986.

Three drill sites were located on the upper workings to evaluate the main structure along the contact between the intrusive and volcanic. The fourth drill site was on the lower workings, and the purpose of this hole was to evaluate the calcareous unit (within the volcanic rocks) which is associated with the disseminated sulphide. The areas drilled have elevations ranging between 1203 to 1219 meters and drill sites were plotted on Figure 5.

The rock cuttings from the drilling were examined in the field and re-examined (using a microscope) in the the main camp, which is located 20 kilometers north-northwest of Westbridge, British Columbia, however, it was difficult to establish the rock type due to the size of the rock cuttings and light color of the grains.

Drill Hole 86-1, 86-2 and 86-3 were drilled within the intrusive and also penetrated to volcanic. Drill Hole 86-4 was drilled at the lower workings in the calcareous unit within the volcanic rocks.

All the samples were taken at 1.5 meters (5 feet) intervals. There was no splitting carried out in the field; all the dry and wet cuttings were shipped to Kamloops and split before assaying. The results are recorded on the Laboratory Assay Sheets 1-7, Appendix "C".

TABLE I: SUMMARY OF PERCUSSION DATA - 1986

BARNATO PROPERTY

PERCUSSION DRILL HOLE #	FOOTAGE M (FT)	A Z	DIP	DRILLING CONDITION			LOCATION	REMARKS
				FROM (M)	TO (M)	WATER/AIR		
86-1	41.7 (137)	9°	-60°	0	3.6	AIR	UPPER WORKING	TO TEST MAIN TRENCH LINE 0+50E 0+80N
				3.6	41.7	WATER		
86-2	60.3 (198)	122°	-61°	0	38.1	AIR	UPPER WORKING	TO TEST TRENCH #9 AT DEPTH
				38.1	60.3	WATER		
86-3	42.1 (138)	163°	-60°	0	35.3	AIR	UPPER WORKING	TO TEST TRENCH #11 AT DEPTH
				35.3	42.1	WATER		
86-4	58.2 (191)	95°	-56°	0	33.2	AIR	LOWER WORKING	TO TEST CALCAREOUS UNIT WITHIN VOLCANIC ROCKS
				33.2	58.2	WATER		
TOTAL	202.4 (664)							

4.1 Description of Drill Holes 86-1, 86-2, 86-3 and 86-4

DRILL HOLE 86-1 (Figure 6)

This hole was drilled at -60° to a depth of 41.8 m. The purpose of this hole was to intersect the down-dip extension of high gold mineralization which occurs within a pit area on the surface of the upper workings. This hole was collared in dark green diorite rock and kept within this unit up to 3.6 m; and from 3.6 to 33.8 m in dark green volcanic rocks with a reddish alteration zone from 3.6 to 8.2 m, and from 33.8 to 41.8 m light grey to green dioritic dyke.

The assay results from this hole are as follows:

From 3.6 to 5.2 m assayed 0.112 oz/ton gold; from 5.2 to 6.7 m assayed 0.035 oz/ton gold, and from 6.7 to 8.2 m assayed 0.040 oz/ton gold. The gold values for the rest of the holes are very low and range between 0.001 to 0.061 oz/ton gold.

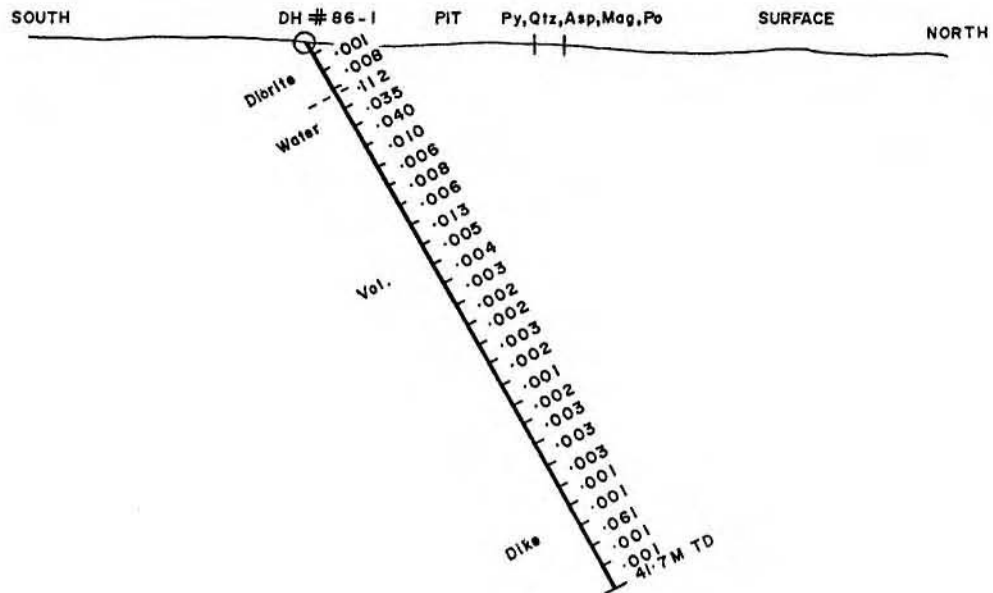
DRILL HOLE 86-2 (Figure 7)

This hole was drilled at -61° to a depth of 60.3 m. The purpose of this hole was to intersect the down-dip extension of the mineralization that is exposed in Trench #9, located in the upper workings. This hole was started in light grey intrusive from 0 to 36.0 m and from 36.0 m to 55.8 m dark green volcanic rocks. From 55.8 to 60.03 m light grey intrusive. The highest gold values were obtained from 37.4 to 39.0 m and assayed 0.017 oz/ton, and from 39.0 to 40.5 m assayed 0.029 oz/ton.

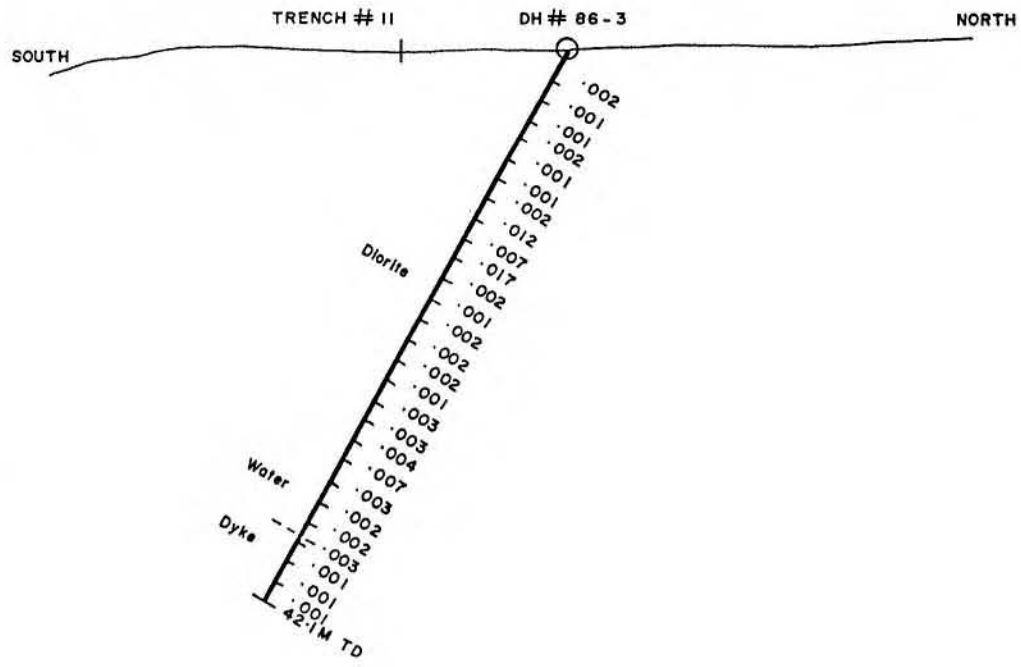
The rest of the values were very low, ranging between 0.001 to 0.017 oz/ton gold.

DRILL HOLE 86-3 (Figure 8)

This hole was drilled at -60° to a depth 41.4 m. The purpose of this hole was to intersect the down-dip extension of the mineralized zone exposed in Trench #11. This hole was collared in dark grey to green diorite intrusive, and intersected a



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BARNATO PROPERTY WESTBRIDGE, B.C. N.T.S. 82/7E GREENWOOD MINING DIVISION PERCUSSION DRILL HOLE # 86-1	
SCALE: 1: 500	FIG: 6
DRAWN BY: D. G.	DATE: JUNE, 1986



GOLDEN SEAL RESOURCES LTD.

BARNATO PROPERTY
WESTBRIDGE, B.C. N.T.S. 82/7E 1
GREENWOOD MINING DIVISION
PERCUSSION DRILL HOLE # 86-3

SCALE: 1:500

FIG: 8

DRAWN BY: D.G.

DATE: JUNE, 1986

a section of light green dyke from 36.8 to 38.4 m, and the remainder of the hole was diorite to 41.4 m (end of hole). The assay results from the above hole are very low in gold values, and range between 0.001 to 0.017 oz/ton gold. The highest gold values are 0.017 oz/ton from 14.6 m to 16.1 m, and 0.012 oz/ton from 11.6 to 13.1 m.

DRILL HOLE 86-4 (Figure 9)

Drill Hole 86-4 was drilled in the lower workings in the calcareous unit within the volcanic rocks to test the potential of this unit. It was drilled at -56° to a depth of 58.2 m. This hole was collared in the dark green volcanic rocks and was finished in the same unit. The gold values were very low and ranged between 0.001 to 0.033 oz/ton.

The following are some of the results obtained from the drilling of Hole 86-4:

From 7.3 to 8.8 m, assayed 0.012 oz/ton gold; from 8.8 to 10.4 m assayed 0.017 oz/ton gold, and 28.6 to 30.2 m assayed 0.033 oz/ton gold.

5.0 CONCLUSIONS

1. The May 1986 Percussion Drilling Program on the Barnato Claim (upper and lower workings area) has shown that the gold values are very low and insufficient to merit further work at the present time, therefore no further work is recommended on the Barnato claim.
2. Even though the results of this program were unfavourable, the writer believes that this property has the potential for further exploration due to the fact that the presence of carbonaceous limestone, intrusive activity, highly altered dykes of various widths, silicification, gossan, and magnetite. All the above features provide the correct environment for gold deposition.

To carry an effective exploration program, thorough geological mapping, studying of this type of environment, and deep diamond drilling is required.

3. The percussion drilling did not delineate a gold zone comparable to that observed in the surface trenches.
4. Drill Holes 86-1, 86-2, and 86-3, were drilled across a strong mineralized zone within the intrusive. Drill Hole 86-1 intersected a zone carrying some sulphide mineralization not related to the main trench, and gold values of up to 0.112 oz/ton were encountered over 1.5 m wide. The gold values were very low for Drill Holes 86-1, 86-2 and 86-3.

Drill Hole 86-4 was drilled to test a calcareous unit within the volcanic rocks. Gold values from this hole were also very low.

6.0 BIBLIOGRAPHY

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APPENDIX "A"
STATEMENT OF COSTS

- 25 -

STATEMENT OF COSTS: (Appendix "A")

Geologist 5 days at \$200/day: (Pre-Programming April 18); (Property Examination and locating drill site - April 20 & 21); and (Travelling Time May 7 & 14).	\$1,000.00
Geologist 7 days at \$275/day on-site drilling supervision	\$1,925.00
Truck rental and travel expenses May 6-14	\$ 412.00
Room and Board May 6 - 14	\$ 223.00
Supplies: Sample Bags	\$ 34.35
Assaying: 131 samples assayed for gold at \$10/sample	\$1,310.00
Drilling Costs	\$7,346.50
Report Writing, word processing, xeroxing, drafting and printing.	\$2,000.00
Management and Supervision Fees of J. Ball, P.Eng., Golden Seal Resources. Ltd. for property and drilling examination.	\$1,089.00
TOTAL:	<u>\$15,339.85</u>

The above costs are drilling costs, and \$15,200.00 was applied for Assessment work
on the Barnato Claims (shown on Pages 6 and 7).

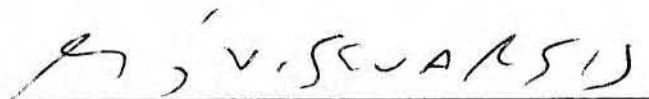
APPENDIX "B"
CERTIFICATE OF QUALIFICATIONS

CERTIFICATE OF QUALIFICATIONS (Appendix "B")

I, Wilson A. Gewargis, B.Sc., F.G.A.C., of 4811 Dunfell Road, Richmond, British Columbia, hereby certify as follows:

1. I am a Consulting Geologist with an office at Suite 811 - 850 West Hastings Street, Vancouver, B.C.
2. I am a graduate of the University of Mosul in Iraq (1970) and hold a Bachelor of Sciences degree in Geology. In addition, I spent two years of post graduate studies at the University of Stuttgart in West Germany.
3. I have engaged in mineral exploration work and studies for 15 years in Canada, United States of America and Europe.
4. I am a Fellow of the Geological Association of Canada and a member of the Society of Mining Engineers of AIME.
5. The work described herein was carried out under my direct supervision.

Dated at Vancouver, British Columbia, this 18th day of June, 1986.



Wilson A. Gewargis, B.Sc., F.G.A.C.
Consulting Geologist

APPENDIX "C"
LABORATORY ASSAY RESULTS



KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.

912 - 1 LAVAL CRESCENT — KAMLOOPS, B.C.
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CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

TO Golden Seal Resources
1912-1177 West Hastings St.,
Vancouver, B.C. V6E 2L5

Certificate No. K 7431 -1

Date May 28, 1986.

I hereby certify that the following are the results of assays made by us upon the herein described _____ samples

Kral No.	Marked	Au							
		ozs/ton							
1	Hole 1 3-10	.001							
2	7-12	.008							
3	12-17	.112							
4	17-22	.035							
5	22-27	.040							
6	27-32	.010							
7	32-37	.006							
8	37-42	.008							
9	42-47	.006							
10	Hole 1 47-52	.013							
11	Hole 1 52-57	.005							
12	57-62	.004							
13	62-67	.003							
14	67-72	.002							
15	72-77	.002							
16	77-82	.003							
17	82-87	.002							
18	87-92	.001							
19	92-97	.002							
20	Hole 1 - 97-102	.003							

NOTE:
Rejects retained three weeks
Pulps retained three months

David A. Seal



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METALLURGISTS

TO Golden Seal Resources

Certificate No. K 7431 -2

Date May 28, 1986.

I hereby certify that the following are the results of assays made by us upon the herein described _____ samples

Kral No.	Marked	Au							
		ozs/ton							
21	Hole 1 102-107	.003							
22	107-112	.003							
23	112-117	.001							
24	117-122	.001							
25	122-127	.061							
26	127-132	.001							
27	Hole 1 132-137	.001							
28	Hole 2 0-8	.006							
29	8-13	.001							
30	Hole 2 13-18	.001							
31	Hole 2 18-23	.001							
32	23-28	.001							
33	28-33	.001							
34	33-38	.001							
35	38-43	.001							
36	43-48	.001							
37	48-53	L.001							
38	53-58	L.001							
39	58-63	.001							
40	Hole 2- 63-68	L.001							

NOTE:
Reagents retained three weeks
Pulps retained three months

D. A. B. C. C. C.



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METALLURGISTS

TO Golden Seal Resources

Certificate No. K 7431 -3

Date May 28, 1986

I hereby certify that the following are the results of assays made by us upon the herein described _____ samples

Kral No.	Marked	Au							
		ozs/ton							
41	Hole 2 68-73	.001							
42	73-78	.001							
43	78-83	.004							
44	83-88	L.001							
45	88-93	L.001							
46	93-98	.001							
47	98-103	.001							
48	103-108	L.001							
49	108-113	L.001							
50	Hole 2 113-118	L.001							
51	118-123	L.001							
52	123-128	.017							
53	128-133	.029							
54	133-138	.001							
55	138-143	.004							
56	143-148	.001							
57	148-153	L.001							
58	153-158	L.001							
59	159-163	L.001							
60	Hole 2 163-168	.001							

NOTE:
Rejects retained three weeks;
Pulps retained three months;

Donald A. Blundell



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B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

CERTIFICATE OF ASSAY

TO Golden Seal Resources

Certificate No. K 7431 -4

Date May 28, 1986.

I hereby certify that the following are the results of assays made by us upon the herein described _____ samples

Kral No.	Marked	Au							
		ozs/ton							
61	Hole 2 168-173	.001							
62	173-178	L.001							
63	178-183	.001							
64	183-188	.001							
65	188-193	L.001							
66	Hole 2 193-198	.001							
67	Hole 3 0-8	.002							
68	8-13	.001							
69	13-18	.001							
70	Hole 3 18-23	.002							
71	Hole 3 23-28	.001							
72	28-33	.001							
73	33-38	.002							
74	38-43	.012							
75	43-48	.007							
76	48-53	.017							
77	53-58	.002							
78	58-63	.001							
79	63-68	.002							
80	Hole 3 68-73	.002							

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged

David A. Stoddell



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CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

TO Golden Seal Resources

Certificate No. K 7431 -5

Date May 26, 1986.

I hereby certify that the following are the results of assays made by us upon the herein described _____ samples

Kral No.	Marked	Au							
		ozs/ton							
81	Hole 3 73-78	.002							
82	78-83	.001							
83	83-88	.003							
84	88-93	.003							
85	93-98	.004							
86	98-103	.007							
87	103-108	.003							
88	108-113	.002							
89	113-118	.002							
90	Hole 3 116-121	.003							
91	Hole 3 121-126	.001							
92	126-131	.001							
93	Hole 3 131-136	.001							
94	Hole 4 0-9	L.001							
95	9-14	.001							
96	14-19	.001							
97	19-24	.006							
98	24-29	.012							
99	29-34	.017							
100	Hole 4 34-39	.002							

NOTE
Rejects retained three weeks
Pulps retained three months
unless otherwise specified

Jack A. Stewart



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CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

TO Golden Seal Resources

Certificate No. K 7431 -6

Date May 28, 1986

I hereby certify that the following are the results of assays made by us upon the herein described _____ samples

Kral No.	Marked	Au							
		ozs/ton							
101	Hole 4 39-44	.007							
102	44-49	.001							
103	49-54	.001							
104	54-59	.001							
105	59-64	.002							
106	64-69	.008							
107	69-74	.002							
108	74-79	.001							
109	79-84	.001							
110	Hole 4 84-89	.002							
111	Hole 4 89-94	L.001							
112	94-99	.033							
113	99-104	.001							
114	104-109	L.001							
115	109-114	.002							
116	114-119	.003							
117	119-124	.002							
118	126-129	.001							
119	129-134	.002							
120	Hole 4 134-139	.001							

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged

Steve A. Stoddell

Registered Assayer, Province of British Columbia



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METALLURGISTS

TO Golden Seal Resources

Certificate No. K 7431 -7

Date May 28, 1986.

I hereby certify that the following are the results of assays made by us upon the herein described _____ samples

Kral No.	Marked	Au							
		ozs/ton							
121	Hole 4 139-144	.002							
122	144-149	.001							
123	149-154	.001							
124	154-159	L.001							
125	159-164	.001							
126	164-169	.001							
127	169-174	.001							
128	174-179	.001							
129	179-184	.001							
130	184-189	.001							
131	Hole 4 189-191	.001							
	L means "less than"								

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged


 Registered Assayer, Province of British Columbia



LEGEND

ROCK UNITS:

- 1 Quartz Diorite
- 2 Rhyolite - Andesite
- 3 Calcerous - Andesite
- 4 Porphyritic Dykes

MINERALIZATION:

- Sulphide Vein: Pyrite, Pyrrhotite, Magnetite
- Gossan
- DDH#12 1938 Diamond Drill Hole Cominco
- DH#86-1 Golden Seal Percussion Drill Hole

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,952

GOLDEN SEAL RESOURCES LTD.

BARNATO PROPERTY
WESTBRIDGE, B.C. N.T.S. 82/7E
GREENWOOD MINING DIVISION
GEOLOGY & PERCUSSION DRILL HOLE
LOCATIONS

TO ACCOMPANY A REPORT BY:
WILSON BEWANGIS, B.Sc., F.G.A.C.
GEORGE'S GEOLOGICAL CONSULTING INC.

SCALE: 1:500	FIG. 5
DRAWN BY: D.S.	DATE: JUNE, 1986