

THE SECURITIES OFFERED FOR SALE THROUGH THIS PROSPECTUS MAY ONLY BE LAWFULLY OFFERED FOR SALE IN THOSE JURISDICTIONS IN WHICH THIS PROSPECTUS HAS BEEN ACCEPTED FOR FILING AND THEREIN ONLY BY PERSONS PERMITTED TO SELL SUCH SECURITIES.

NO SECURITIES COMMISSION OR SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES OFFERED HEREUNDER AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

PROSPECTUS

EFFECTIVE DATE: AUGUST 4, 1988

CASTLE MINERALS INC.  
413 - 475 Howe Street  
Vancouver, British Columbia  
V6C 2B3

PROPERTY FILE P.V.  
Wren 92J/6E, 7W  
92J ~~6E~~ 7W

OFFERING:	600,000 Common Shares		
			Net Proceeds
Shares	Price to Public	Commission	to be received by the Issuer
Share	\$0.40	\$0.06	\$0.34
Total	\$240,000	\$36,000	\$204,000*

a cost of issue estimated to be \$20,000.

PRESENTLY NO MARKET THROUGH WHICH THESE SECURITIES MAY BE SOLD. THE OFFERING PRICE HAS BEEN ARBITRARILY ESTABLISHED BY THE COMPANY WHICH DOES NOT REPRESENT THAT THE SHARES HAVE A MARKET VALUE OR COULD BE RESOLD AT SUCH PRICE.

UPON COMPLETION OF THIS OFFERING THE COMMON SHARES ISSUED HEREUNDER WILL REPRESENT 33.22% OF THE TOTAL ISSUED COMMON SHARES OF THE COMPANY AS COMPARED TO 43.18% THAT WILL THEN BE OWNED BY THE PROMOTERS, DIRECTORS AND SENIOR OFFICERS OF THE COMPANY.

ONE OR MORE OF THE DIRECTORS OF THE COMPANY HAS AN INTEREST, DIRECT OR INDIRECT, IN OTHER NATURAL RESOURCE COMPANIES. REFERENCE IS MADE TO PARAGRAPH 6 UNDER THE HEADING "RISK FACTORS" ON PAGE 9.

A PURCHASE OF THE SECURITIES OFFERED BY THIS PROSPECTUS MUST BE CONSIDERED A SPECULATION. THE PROPERTY IN WHICH THE COMPANY HAS AN INTEREST IS IN THE EXPLORATION AND DEVELOPMENT STAGES ONLY AND IS WITHOUT A KNOWN BODY OF COMMERCIAL ORE. REFERENCE IS MADE TO PARAGRAPH 6 UNDER THE HEADING "RISK FACTORS" ON PAGE 9.

REFERENCE IS MADE TO PAGE 15 FOR DETAILS OF SHARES HELD BY UNDERWRITERS.

THIS OFFERING IS SUBJECT TO A MINIMUM SUBSCRIPTION BEING RECEIVED BY THE ISSUER WITHIN 180 DAYS OF AUGUST 4, 1988 (DATE OF RECEIPT OF PROSPECTUS). FURTHER PARTICULARS OF THE MINIMUM SUBSCRIPTION ARE DISCLOSED ON PAGE 2 UNDER THE HEADING "MINIMUM SUBSCRIPTION".

DESCRIPTION OF BUSINESS AND PROPERTY OF THE COMPANY

Business

The Company is a natural resource company engaged in the acquisition, exploration and development of mineral properties. The Company owns or has interests in the properties described under the heading "The Property" and intends to seek and acquire additional properties worthy of exploration and development.

The Property

1. By an Option Agreement dated August 31, 1987 between James G. McDonald and John P. McGoren, both of 110 - 1285 West Pender Street, Vancouver, B. C. as Optionors (both at arm's length with the Company) and the Company as Optionee, the Company was granted an option to purchase the following modified grid mineral claim situated in the Lillooet Mining Division, Province of British Columbia:

<u>Name of Claim</u>	<u>Record No.</u>	<u>Units</u>	<u>Expiry Date</u>
Wren	3835	20	October 5, 1988

for \$5,000. and 100,000 shares of the Company and the expenditure on the Property of \$120,000. as follows:

- a. \$5,000. upon execution of the Option Agreement (this sum has been paid).
- b. 25,000 shares upon issuance of a receipt by the Superintendent of Brokers for the Optionee's Prospectus, but not later than the 31st day of August 1988.
- c. 25,000 shares following receipt of a favourable report on the results of a first phase program of work on the Property from the Optionee's consulting engineer, but not later than six months from the date of the receipt referred to in sub-paragraph b. above.
- d. 25,000 shares following receipt of a favourable report on the results of a second phase program of work on the Property from the Optionee's consulting engineer, but not later than 12 months from the date of receipt referred to in sub-paragraph b.

- e. 25,000 shares following receipt of a favourable report on the results of a third phase program of work on the Property from the Optionee's consulting engineer, but not later than 18 months from the date of the receipt referred to in sub-paragraph b.
- f. The carrying out of work on the Property by the Optionee of a minimum value as follows:
  - i. work to a value of \$60,000. prior to the 31st day of August 1988.
  - ii. Further work to a value of an additional \$60,000. prior to the 31st day of August 1989, with the proviso that any work carried out on the Property over and above the minimum requirement for the first year shall be credited to the minimum expenditure required for the second year.

Each of the share issuances pursuant to sub-paragraphs b. to f. is subject to the acceptance by regulatory authorities of favourable progress reports.

A royalty of one percent of net smelter returns has been reserved to the Optionors. Net smelter returns are defined as:

"the actual proceeds received by the Optionee from a smelter or other place of sale in respect of all smelter treated ore removed by the Optionee from the mineral claims, as evidenced by its returns or settlement sheets, after deducting from the proceeds all freight or other transportation costs from the shipping point to the smelter or other place of sale, but without any other deduction whatsoever."

2. By Bill of Sale dated February 12, 1988, three (3) additional 2 Post Claims and one (1) additional modified grid claim consisting of 12 units were purchased from Jeffrey Hume Aitken, of 6150 Cottonwood Street, Delta, B. C. one of the directors of the Company for the price of \$3,500. which sum represents reimbursement of out-of-pocket expenses incurred by that director in the acquisition of said claims. These additional claims are all contiguous to the Wren Claim and situated in the Lillooet Mining Division.

Particulars:

a. 2 Post Claims

<u>Name of Claim</u>	<u>Record Number</u>	<u>Expiry Date</u>
Jay	3819	21 September 1988
Robin	3820	21 September 1988
Crow	3821	21 September 1988

b. Modified Grid Claim

<u>Name of Claim</u>	<u>Units</u>	<u>Record Number</u>	<u>Expiry Date</u>
Sparrow	12	3817	21 September 1988

Location and Access

The Wren Mineral Group Claims are located on the south side of Rutherford Creek in southwestern British Columbia, in moderately steep, mountainous terrain, approximately 120 km north of Vancouver. The town of Pemberton is 10 km north, and the village of Whistler is approximately 15 km to the south. Terrestrial co-ordinates for the center of the claim block are:

50° 16' North Latitude  
123° 00' West Longitude  
NTS 92 J/6E and 7W

The property is at an elevation which ranges from 800 m (2,600 feet) along Rutherford Creek, to over 2,150 m (7,060 feet) at the ridge top which divides the east flowing Rutherford Creek and Soo River drainages.

Access to the property is along a low-maintenance, dry weather logging road which trends westward along the north side of Rutherford Creek and which connects with the Vancouver - Pemberton Highway (B.C. Highway 99) approximately 10 km south of the town of Pemberton. The north boundary of the property is immediately south of a logging bridge which crosses Rutherford Creek. The lower, northern portion of the claim group was logged during 1986 and 1987 and several logging roads cross the property.

Additional information concerning the property will be found in the Geological Report on the Wren Claim Group by R.A. Gonzalez, M.Sc., F.G.A.C., dated January 29, 1988, a copy of which is attached hereto and forms part of this Prospectus.

History

The following information is taken from Mr. Gonzalez' report:

"The area was first staked in the mid-1970's by the Rainbow Syndicate, a syndicate consisting of Newmont Exploration of Canada Ltd. (40%); Union Oil Company of Canada Ltd. (Calgary) (40%); Bethlehem Copper Corporation (20%); and John McGoran, (geologist). The area was staked as the GL Claims after a regional stream sediment sampling programme identified anomalous zinc and gold in the Rutherford Creek drainage. From 1977 to 1980, the property was geologically mapped and soil sampled. A geochemically anomalous area 200 x 250 m was outlined and contained values up to 780 ppb gold. Panning the soils within the anomalous area returned visible flakes of angular gold. In 1980, an I.P.

survey (a single-line, test survey) was conducted over the anomalous area and a 100 m long anomaly, believed to be disseminated pyrite, was outlined. This anomalous zone was below the area where gold had been panned from the soils. A gasoline powered underground slusher was mobilized on to the property, and a small trench was dug across the anomalous zone. This trench exposed a silicified, pyrite-bearing shear zone, but rock samples from the trench carry only low gold values. Two drill holes were proposed to test the I.P. anomaly at depth; however, the Syndicate was dissolved prior to the drilling, and the property was returned to Mr. McGoran who later allowed the claims to lapse.

As soon as the ground was open to staking, the original GL claims were covered by the Wren Claim and optioned to CASTLE MINERALS INC."

#### Summary of Work Performed by the Company

The following information is taken from the report of Mr. Gonzalez:

"In 1987, CASTLE MINERALS relocated the Syndicate's trench and established a grid over the northern portions of the property east of the trench. Logging activity, especially road building, has exposed the shear zone in several widely spaced road cuts and consequently greatly enlarged its surface dimensions. Grid lines 50 m (164 feet) apart were cut over the lower slopes of the Wren and Sparrow Claims. The grid was established to expand the area of known gold mineralization. All grid lines were soil or rock chip sampled at 20 m intervals. In addition to the grid sampling, all logging roads crossing the claim group were sampled at 20 m or 40 m intervals. Approximately 14 line km of grid lines and road traverses were sampled and a total of 899 samples were collected and analysed. Figure 4 shows the grid, road, and traverse locations relative to the claims boundaries and indicates the sample sites.

Results of the geochemical programme were very encouraging. Samples ranged from 1 ppb to 5,690 ppb. With an anomalous threshold is arbitrarily set at 100 ppb gold, over 15% of the samples are anomalous (Table II).

Several grid lines and roads were used to test the effectiveness of a ground magnetometer and VLF-EM surveys. Due to technical problems only a few lines were surveyed with the magnetometer; however, what information was obtained indicated that the magnetometer is useful in identifying changes in rock types. Several of the grid lines were surveyed with an EM 16 VLF-EM unit which, combined with geology, appears to outline the limits of the shear zone."

#### Geology

Reference is made to item 2.0 "Geology" at pages 6 and 7 of the report of Mr. Gonzalez for details of the regional and local geology found in the area surrounding the Wren Mineral Group.

### Mineralization

Reference is made to Table 2 "Histogram showing the distribution of gold in soil and rock samples" at page 9 of the report of Mr. Gonzalez.

### Conclusions and Recommendations

Mr. R.A. Gonzalez concludes in his report the following at page 12 under item 4.0:

"Exploration by Castle Minerals confirms the previous work and indicates that several shear zones, the widest is approximately 750 m wide, are present and extend beyond the claim boundaries in both the northern and southern directions.

The Wren Group has a potential for the occurrence of gold mineralization associated with structurally controlled, silicified shear zones. Work done to date by the various operators is sound exploration work but additional work is required to fully evaluate the area's economic potential.

The property is an interesting prospect with sufficient merit to warrant additional exploration."

At page 13 under item 5.0, in his report, Mr. Gonzalez recommends the following:

"The first phase of the evaluation of the Wren Group should provide for 1) basic geologic information on rock types and structures, 2) determine the geological association between structural features and mineralization, 3) additional prospecting in areas of anomalous geochemical samples and along structural features, 4) additional geochemical sampling of soils and mineralized rocks surrounding areas underlain by shear zones, 5) to aid in geological interpretation, geophysical surveying for precise anomaly definition including rock types (ie contacts) and structural features. The objective of this exploration phase is, of course, to identify and adequately define target areas for subsequent drilling and trenching.

Procedures in the first phase of evaluation are for the most part self evident. However, particular attention should be paid to areas of silicification and structural features such as shear zones and shear directions. Since most horizons of potential interest are obscured by overburden, geophysical and geochemical surveying will likely be found to be a particularly valuable evaluation method.

Follow-up soil sampling on the Wren and Sparrow Claims should be analyzed for 31 elements using the ICP technique and gold by fire assay after pre-concentration. In the absence of outcrops, strongly anomalous conditions would constitute sufficient reason to consider drilling or trenching.

The estimated costs for Phase I operation for the evaluation of the Property are as follows:

PHASE I COSTS:

- Geological Mapping, Prospecting	\$ 4,000.
- Geophysical Surveys (ground Mag. & EM)	1,500.
- Geochemical Surveys, Sampling	1,500.
- Preliminary Diamond Drilling for Geological Information (457 m @ \$92/m)	42,000.
- Assaying	8,000.
- Supervision	7,000.
- Equipment Purchase & Rental	6,000.
- Consulting, Compilation	4,000.
- Drafting Services	1,000.
- Food & Accomodations	4,000.
- Vehicle, Travel & Supplies	2,000.
- Licenses & Fees	5,000.
- Administration	<u>5,000.</u>
Subtotal	\$ 91,000.
Contingencies (@ 10%)	9,000.
- ESTIMATED TOTAL COST - PHASE I	\$100,000."

THERE IS NO UNDERGROUND OR SURFACE PLANT OR EQUIPMENT ON THE WREN CLAIM GROUP PROPERTY, WHICH IS WITHOUT A KNOWN BODY OF COMMERCIAL ORE. THE PROPOSED PROGRAM IS AN EXPLORATIORY SEARCH FOR ORE.

RISK FACTORS

Investment in developmental stage ventures such as the Company is highly speculative and subject to numerous and substantial risks. Therefore, prospective purchasers should carefully consider the following risk factors:

1. Since the Company has no past history of operations, the price at which the shares are offered hereby has been arbitrarily determined and bears no relationship to earnings, book value, or other criteria of value, and any real value attributable to the Company's shares is dependent upon the

C A S T L E      M I N E R A L S      I N C .

GEOLOGIC REPORT ON THE WREN CLAIM GROUP

RUTHERFORD CREEK AREA

LILLOOET MINING DIVISION, B.C.

NTS 92 J/6E AND 7W

BY

R.A. GONZALEZ, M.Sc., F.G.A.C.,

JANUARY 29, 1988



ARCHEAN ENGINEERING LTD.



## TABLE OF CONTENTS

	Page
SUMMARY	i
TABLE OF CONTENTS	ii
FIGURES AND TABLES	iii
1.0 INTRODUCTION	1
1.1 Location and Access	1
1.2 Claim Information	2
1.3 Physiography, Vegetation and Climate	5
2.0 GEOLOGY	6
2.1 Regional Geology	6
3.0 WORK SUMMARY AND DISCUSSION	8
4.0 CONCLUSIONS	12
5.0 RECOMMENDATIONS	13
6.0 REFERENCES	16
7.0 CERTIFICATE	17
8.0 STATEMENT OF PROFESSIONAL QUALIFICATIONS	18
9.0 APPENDIX - ASSAY RESULTS	19

### FIGURES

FIGURE 1 - Location Map	3
FIGURE 2 - Mineral Claim Map 1:50,000	4
FIGURE 3 - Regional Geology	7
FIGURE 4 - Grid Plan and Sample Locations	10
FIGURE 5 - Interpretation	11
FIGURE 6 - GRID PLAN AND SAMPLE LOCATIONS	in pocket

### TABLES

TABLE 1 - Claim Status	2
TABLE 2 - Histogram Showing Distribution of Gold in Soils and Rock Samples	9

## 1.0 INTRODUCTION

In early 1987, a dialogue was established between the claim holder, Mr. Jim McDonald of Vancouver, B.C., and **CASTLE MINERALS INC.** in which the latter agreed to option 1 Modified Grid Claim, comprised of 20 units. During the initial exploration, it became apparent that the economic potential of the area was considerable and additional claims were required. **CASTLE** purchased or optioned three 2-post claims and two Modified Grid claims comprised of 32 units, contiguous to the original Wren Claim. These claims form a block collectively called the Wren Mineral Group. One 2-post claims was also added to the holding and cover a gossan area on the north side of the valley. All claims lie within the Lillooet Mining Division. In May 1987, the writer was asked to examine the claims, compile available information, comment on the mineral potential, and if warranted, make recommendations for future work. This report summarizes the results of that examination and my continuing involvement in monitoring the exploration which took place during the summer of 1987.

## 1.1 LOCATION AND ACCESS

The Wren Mineral Group is a gold prospect located on the south side of the Rutherford Creek in southeastern British Columbia. The claims are located in moderately steep, mountainous terrain approximately 120 km north of Vancouver. The town of Pemberton is 10 km north, and the Village of Whistler is approximately 15 km to the south (Figure 1). Terrestrial co-ordinates for the centre of the claim block are as follows:

50° 16' North Latitude  
123° 00' West Longitude  
NTS 92 J/6E and 7W

The property is at an elevation which ranges from 800 m (2600 feet), along Rutherford Creek, to over 2150 m (7060 feet) at the ridge top which divides the east flowing Rutherford Creek and Soo River drainages.

Access to the property is along a low-maintenance, dry weather, logging road which trends westward along the north side of Rutherford Creek. This road connects with the Vancouver-Pemberton Highway (B.C. Highway 99) approximately 10 km south of the town of Pemberton. The north boundary of the Wren Mineral Group is immediately south of a logging bridge which crosses Rutherford Creek. The lower, northern, portions of the claim group was logged during 1986 and 1987 and several logging roads cross the property.

## 1.2 CLAIM INFORMATION

The property is located in the Lillooet Mining Division and is comprised of two Modified Grid claim, totalling 32 units, and three 2-post claims (Figure 2). All claims are contiguous. The Wren Mineral Claim is held by an option agreement with the recorded holder, Mr. Jim MacDonald of Vancouver, while the Sparrow, Robin, Jay, and Crow are recorded in the name of Castle Minerals Inc. For claim information, see Table 1.

TABLE 1

### CLAIM STATUS

#### MODIFIED GRID CLAIMS

CLAIM NAME	RECORD NO.	UNITS	ANNIVERSARY DATE
WREN	3835	20	5 OCTOBER
SPARROW	3817	12	21 SEPTEMBER

#### 2-POST CLAIMS

CLAIM NAME	RECORD NO.	ANNIVERSARY DATE
JAY	3819	21 SEPTEMBER
ROBIN	3820	21 SEPTEMBER
CROW	3821	21 SEPTEMBER

# CASTLE MINERALS INC.

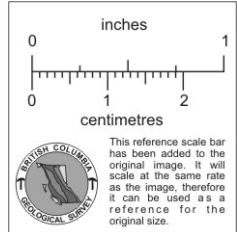
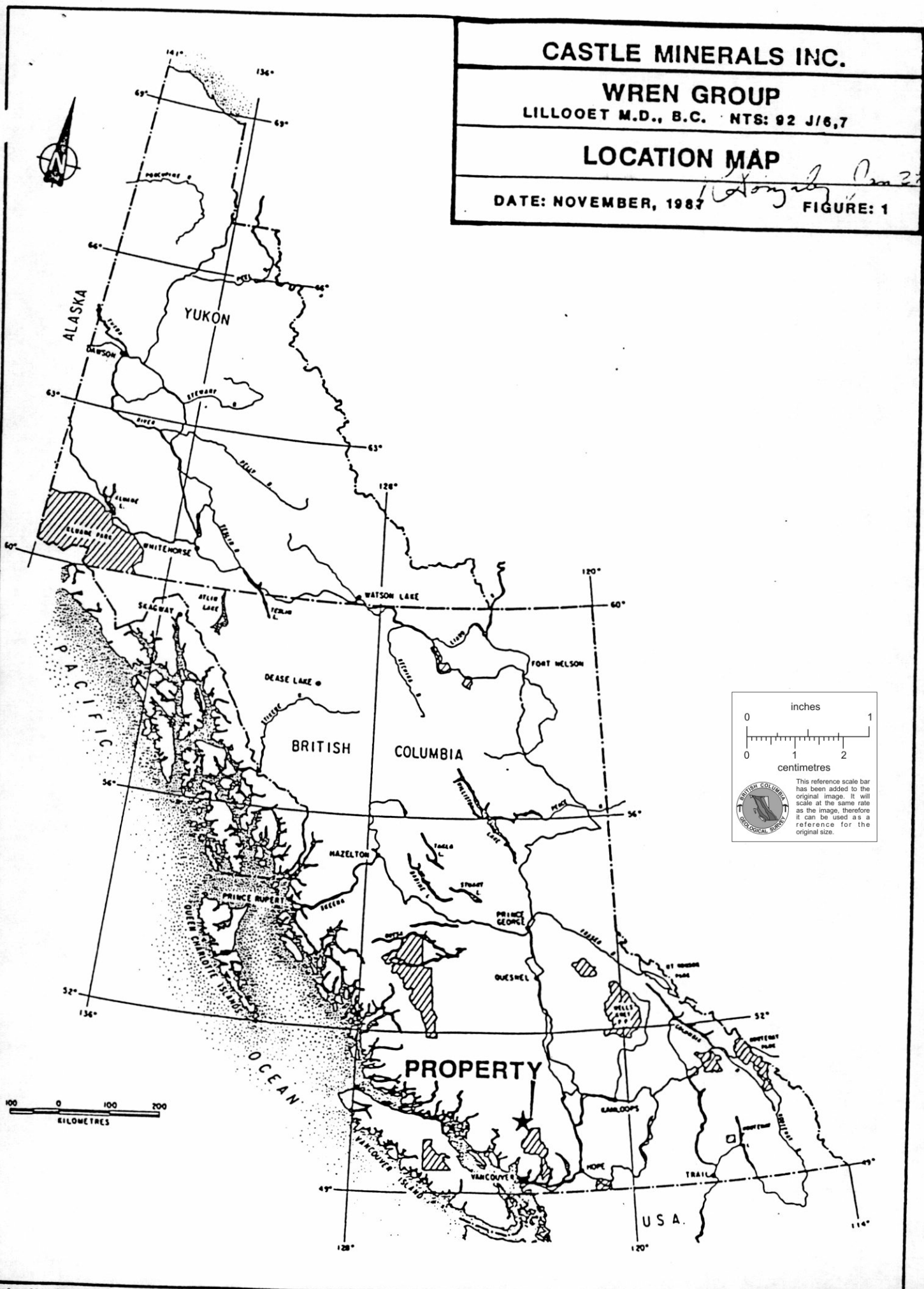
## WREN GROUP

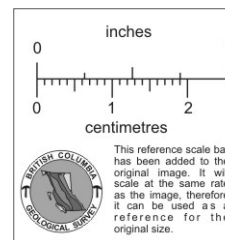
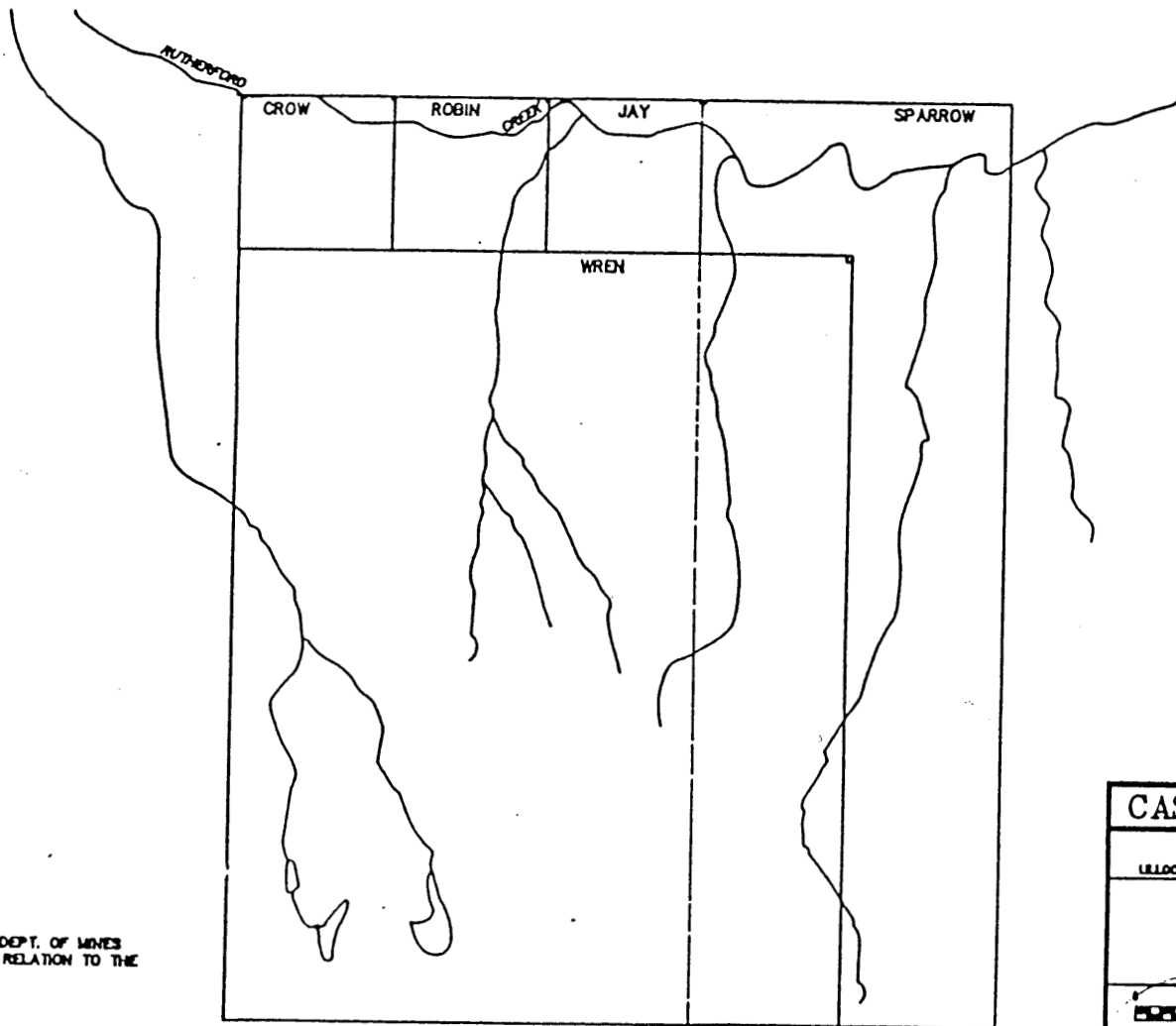
LILLOOET M.D., B.C. NTS: 92 J/6,7

## LOCATION MAP

DATE: NOVEMBER, 1987

FIGURE: 1





NOTE: CLAIM LOCATIONS NOT AS SHOWN ON DEPT. OF MINES CLAIM MAP 92 J/18 E BUT SHOWN IN RELATION TO THE LOCATION OF CLAIM POSTS.

<b>CASTLE MINERALS INC.</b>	
<b>WREN GROUP</b>	
LELLOET MINING DISTRICT, B.C.	MTN 92 J/18, 79
<b>CLAIM MAP</b>	
0 200 400 600 800 1000 METERS	
DATE: OCTOBER, 1987	FIGURE No. 2
BY: K. COLWELL/AM	

### 1.3 PHYSIOGRAPHY, CLIMATE AND VEGETATION

The Wren prospect is located in the Pacific Ranges Subdivision of the Coast Mountains Physiographic Province (formerly referred to as the Coast Plutonic Complex). The area surrounding the claims has a rugged topography with surface elevations ranging from 600 to over 2100 m (2000 to 7000 feet). Mountains rise abruptly on either side of Rutherford Creek valley; the highest peak on the property is approximately 2150 m (7060 feet) above sea level.

The climate during the summer is generally warm although brisk winds are common on unprotected ridges and peaks. The weather station at Pemberton Meadows (elev. 655 m) records a mean rainfall of 741 mm/year, a mean snowfall of 2824 mm/year, and a mean daily temperature varying from a low of  $-6.1^{\circ}\text{C}$  to a high of  $18.6^{\circ}\text{C}$ . However, conditions are more severe at higher elevations. The area's climate is likened to that of the western interior of British Columbia (Drysdale, 1916).

Treeline is approximately 1600 m on north facing slope. At lower elevations cedar, cottonwood, white pine, Douglas fir, and hemlock fir are common with Douglas and hemlock fir being more common at higher elevations. Alpine fir, mosses and grasses are found above treeline.

## 2.0 GEOLOGY

### 2.1 REGIONAL GEOLOGY

The geology of the Pemberton map-area has been described by Woodsworth (1977), Cairnes (1925), Camsell (1918), and Drysdale (1916). The Rutherford Creek area has been studied in some detail by Woodsworth (1977), among others. The area is underlain mostly by granitoid rocks of the Coast Plutonic Complex and highly deformed volcanic and sedimentary rocks of Lower Cretaceous aged (Figure 3).

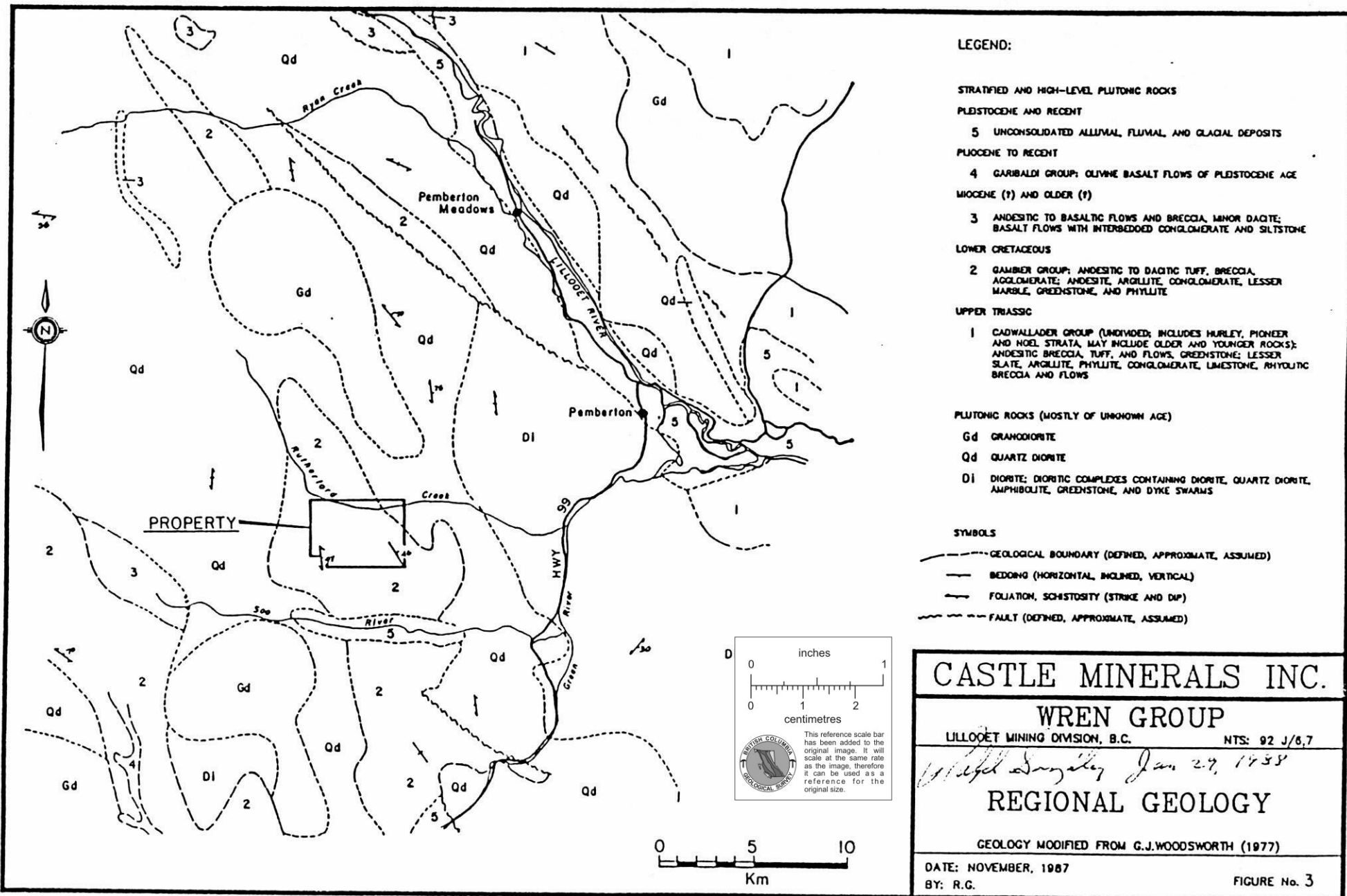
The Coast Plutonic Complex consists largely of plutonic rocks and subordinate gneiss and migmatite, mostly of uncertain age. The plutonic rocks are dominantly quartz diorite to granodiorite, with some diorite and quartz monzonite. Regionally metamorphosed Late Triassic to Early Cretaceous sedimentary and volcanic rocks form northwest-trending pendants within the plutonic framework.

Highly deformed Lower Cretaceous aged stratified rocks are common with meta-volcanic rocks greatly predominate over meta-sedimentary strata. The volcanic rocks are mainly pyroclastic and are comprised of greenish tuffs and breccias, reddish brown to maroon breccia-conglomerates, and purplish breccias. Thin beds of brittle shale or siltstone are often interbedded with the volcanics.

A chain of late Tertiary and Quaternary calc-alkaline volcanic centres extends north through part of the Coast Plutonic Complex. In the area, several high-level quartz monzonite stocks intrude quartz diorite of the Complex.

As in other parts of the Coast Mountains, the dominant structural trend is northwesterly. Foliation in plutonic rocks are generally northwest with steep dips. Schistosity in pendants is usually parallel or subparallel with contacts. Schistosity is rare in the meta-volcanics. It appears that deformation has been largely concentrated in narrow northwest trending zones, leaving the intervening areas with well preserved original textures suggest that deformation was controlled by deep-seated major structural features.

The geology of the area is not simple. Multiple deformation has rendered most of the rocks schistose and tightly compressed in complex repetitive folds. A subtlety of rock differences, and obscurity of bedding, facies changes in some formations, and a variation in intensity of hydrothermal alterations all combine to make a complex relationship which poor exposures, at lower elevations, further compounds.





### 3.0 WORK SUMMARY AND DISCUSSION

The area was first staked in the mid-1970's by the Rainbow Syndicate, a syndicate consisting of Newmont Exploration of Canada Ltd. (40%); Union Oil Company of Canada Ltd. (Calgary) (40%); Bethlehem Copper Corporation (20%); and John McGoran, (geologist). The area was staked as the GL Claims after a regional stream sediment sampling programme identified anomalous zinc and gold in the Rutherford Creek drainage. From 1977 to 1980, the property was geologically mapped and soil sampled. A geochemically anomalous area 200 X 250 m was outlined and contained values up to 780 ppb gold. Panning the soils within the anomalous area returned visible flakes of angular gold. In 1980, an I.P. survey (a single-line, test survey) was conducted over the anomalous area and a 100 m long anomaly, believed to be disseminated pyrite, was outlined. This anomalous zone was below the area where gold had been panned from the soils. A gasoline powered underground slusher was mobilized on to the property, and a small trench was dug across the anomalous zone. This trench exposed a silicified, pyrite-bearing shear zone, but rock samples from the trench carry only low gold values. Two drill holes were proposed to test the I.P. anomaly at depth; however, the Syndicate was dissolved prior to the drilling, and the property was returned to Mr. McGoran who later allowed the claims to lapse.

As soon as the ground was open to staking, the original GL claims were covered by the Wren Claim and optioned to CASTLE MINERALS INC.

In 1987, CASTLE MINERALS relocated the Syndicate's trench and established a grid over the northern portions of the property east of the trench. Logging activity, especially road building, has exposed the shear zone in several widely spaced road cuts and consequently greatly enlarged its surface dimensions. Grid lines 50 m (164 feet) apart were cut over the lower slopes of the Wren and Sparrow Claims. The grid was established to expand the area of known gold mineralization. All grid lines were soil or rock chip sampled at 20 m intervals. In addition to the grid sampling, all logging roads crossing the claim group were sampled at 20 m or 40 m intervals. Approximately 14 line km of grid lines and road traverses were sampled and a total of 899 samples were collected and analysed. Figure 4 shows the grid, road, and traverse locations relative to the claims boundaries and indicates the sample sites.

Results of the geochemical programme were very encouraging. Samples ranged from 1 ppb to 5690 ppb. With an anomalous threshold is arbitrarily set at 100 ppb gold, over 15% of the samples are anomalous (Table II).

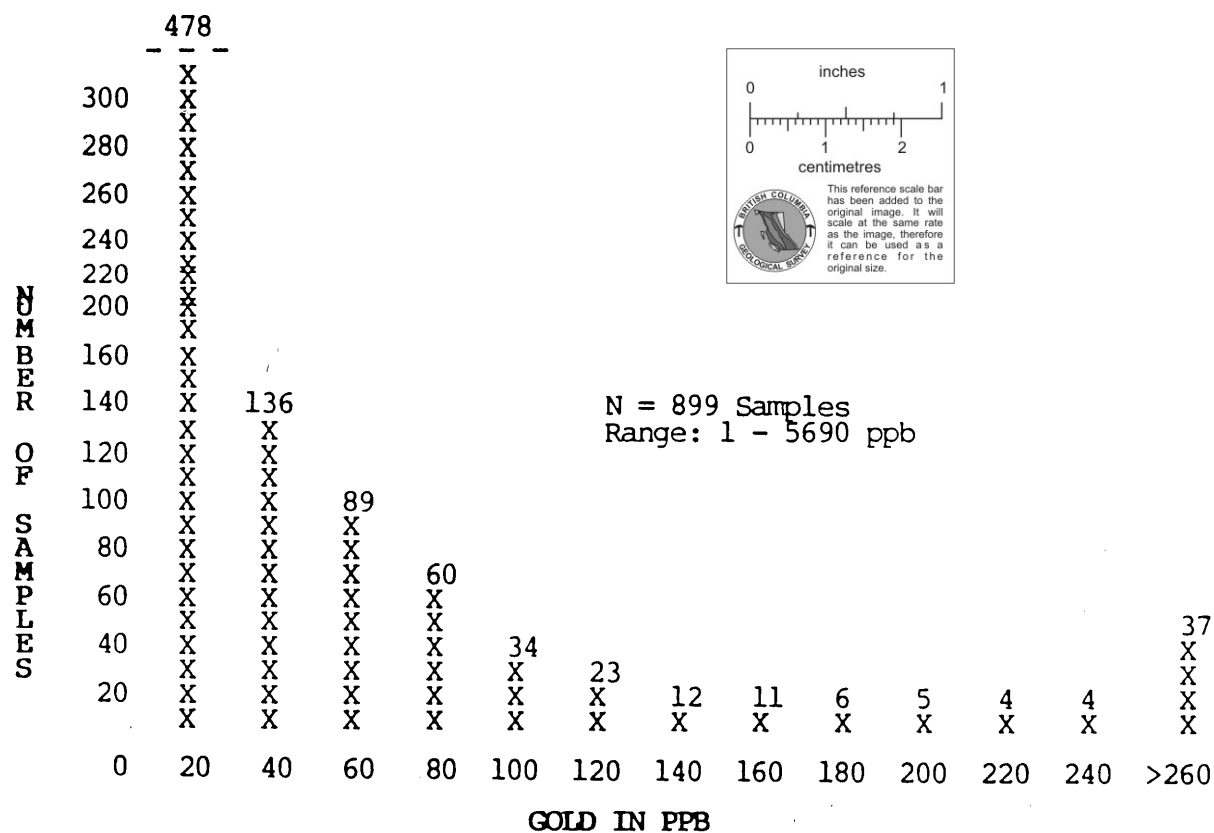
Several grid lines and roads were used to test the effectiveness of a ground magnetometer and VLF-EM surveys. Due to technical problems only a few lines were surveyed with the magnetometer; however, what information was obtained indicated that the magnetometer is useful in identifying changes in rock types. Several of the grid lines were surveyed with an EM 16 VLF-EM unit which, combined with geology,

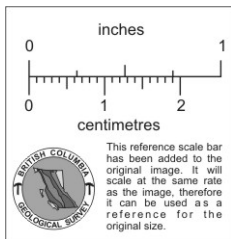
appears to outline the limits of the shear zone.

Figure 5 is a compilation of the geochemical, geophysical, and structural information for the northern end of the property.

TABLE 2

HISTOGRAM SHOWING THE DISTRIBUTION OF GOLD IN SOIL AND ROCK SAMPLES



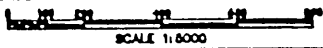


CASTLE MINERALS INC.

WREN GROUP

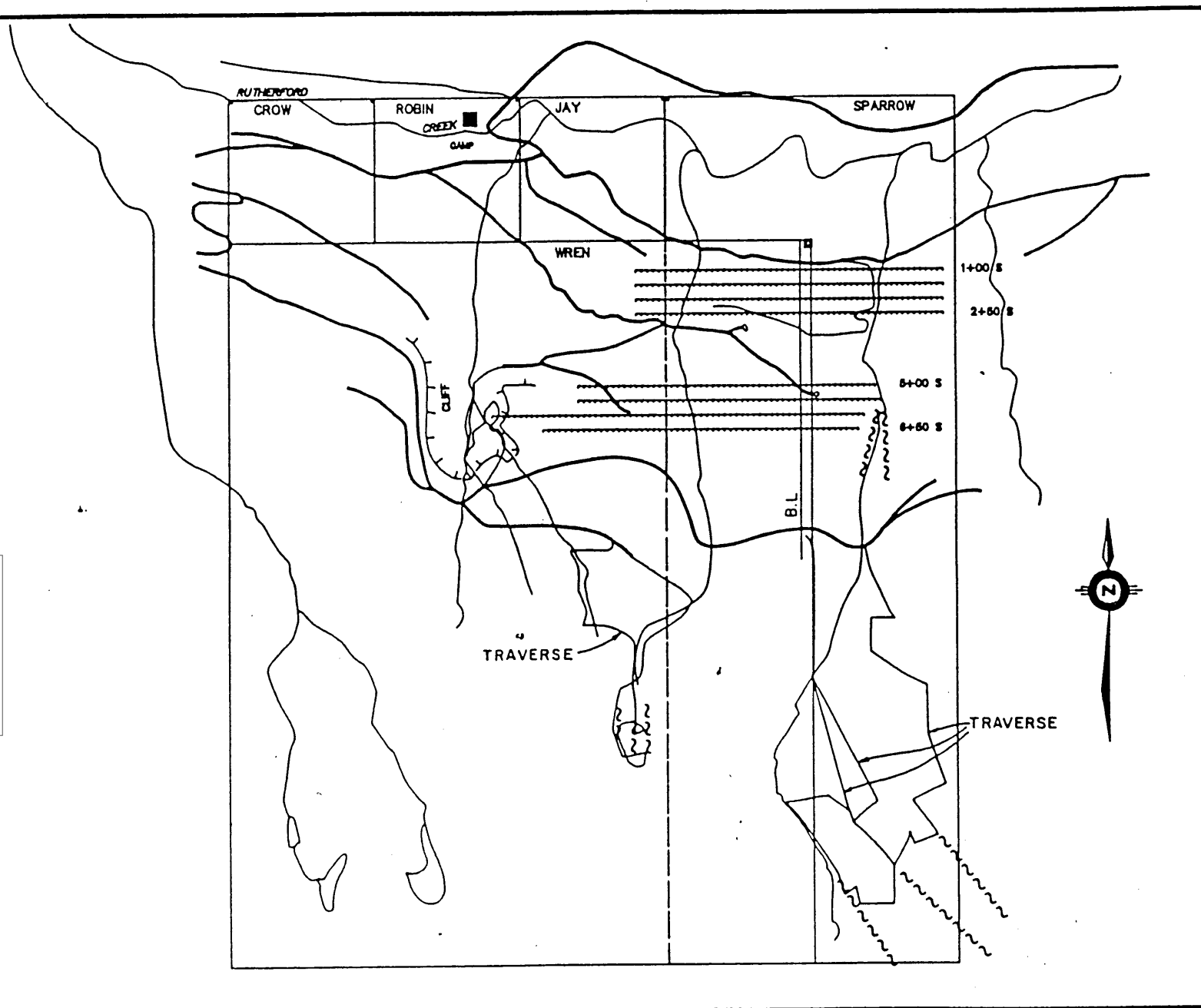
LELOUET MINING DIVISION, B.C. NTR: 02 J/82, 74

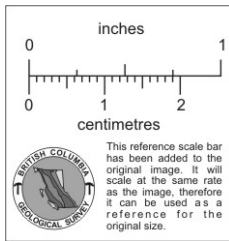
GRID PLAN AND  
SAMPLE LOCATIONS



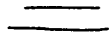
DATED OCTOBER, 1987  
BY K. GOURLEY/tw

FIGURE No. 4





ANOMALOUS GEOCHEMISTRY



SHEAR ZONE

CASTLE MINERALS INC.

WREN GROUP

LILLOOET MINING DIVISION, B.C.

NTS: 92 J/8E, 7W

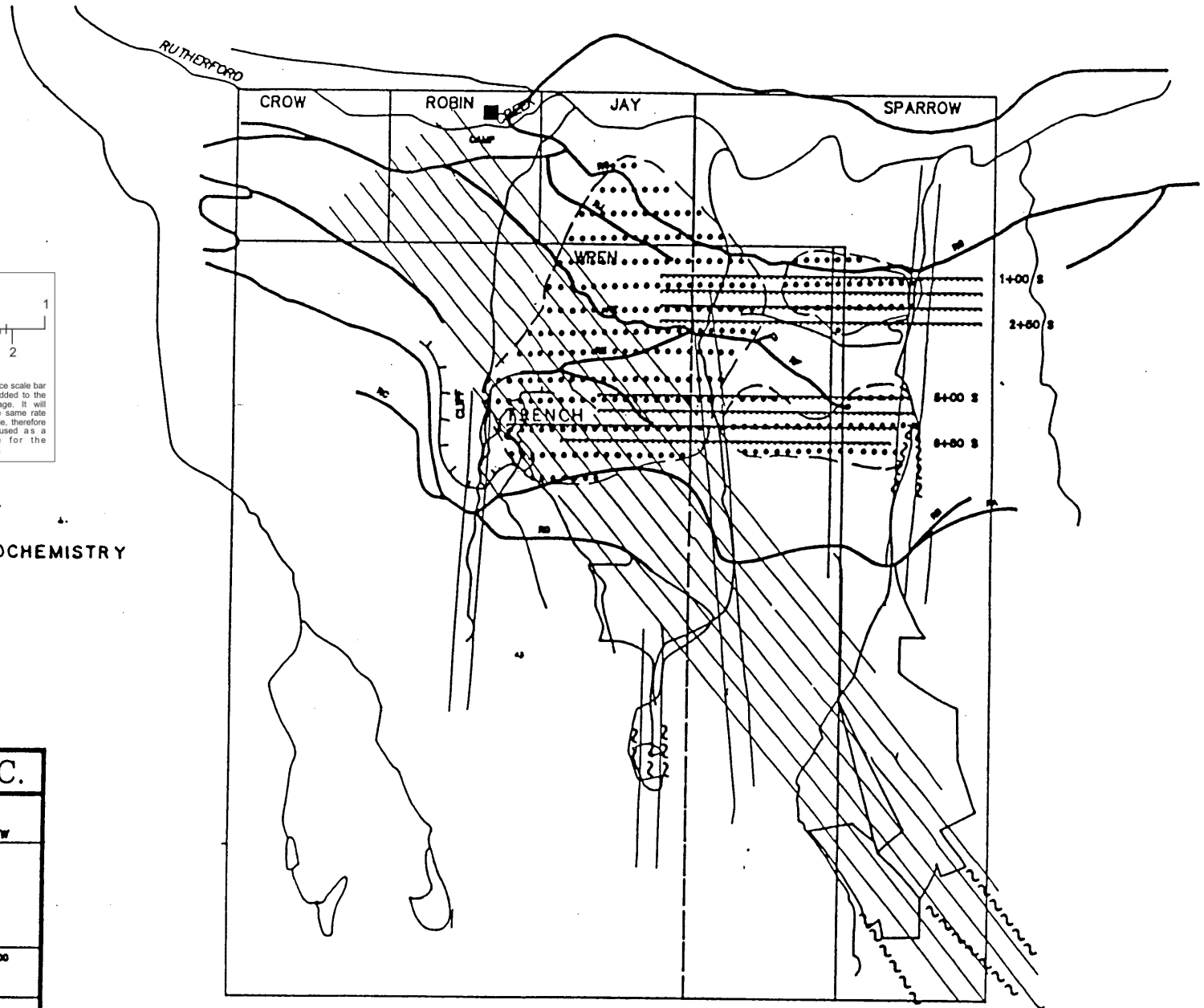
INTERPRETATION MAP



DATE: OCTOBER, 1967

BY: K.GOURLEY/rwr

FIGURE No. 5



#### 4.0 CONCLUSIONS

Previous geochemical soil sampling has identified an area approximately 200 X 250 m which is highly anomalous with respect to gold. Angular gold particles were also recovered by panning the soils within the anomalous area. A ground geophysical survey (I.P. survey) outlined a pyrite zone near the centre of the anomalous area, and a small trench, constructed in the area of highest gold values, exposed a silicified shear zone containing pyrite. Subsequent road building has greatly expanded the surface exposure of the silicified shear zone.

Exploration by **CASTLE MINERALS** confirms the previous work and indicates that several shear zones, the widest is approximately 750 m wide, are present and extend beyond the claim boundaries in both the northern and southern directions.

The Wren Group has a potential for the occurrence of gold mineralization associated with structurally controlled, silicified shear zones. Work done to date by the various operators is sound exploration work but additional work is required to fully evaluate the areas economic potential.

The property is an interesting prospect with sufficient merit to warrant additional exploration.

## 5.0 RECOMMENDATIONS

The first phase of the evaluation of the Wren Group should provide for 1) basic geologic information on rock types and structures, 2) determine the geological association between structural features and mineralization, 3) additional prospecting in areas of anomalous geochemical samples and along structural features, 4) additional geochemical sampling of soils and mineralized rocks surrounding areas underlain by shear zones, 5) to aid in geological interpretation, geophysical surveying for precise anomaly definition including rock types (ie contacts) and structural features. The objective of this exploration phase is, of course, to identify and adequately define target areas for subsequent drilling and trenching.

Procedures in the first phase of evaluation are for the most part self evident. However, particular attention should be paid to areas of silicification and structural features such as shear zones and shear directions. Since most horizons of potential interest are obscured by overburden, geophysical and geochemical surveying will likely be found to be a particularly valuable evaluation method.

Follow-up soil sampling on the Wren Claim Group should be analyzed for 31 elements using the ICP technique and gold by fire assay after pre-concentration. In the absence of outcrops, strongly anomalous conditions would constitute sufficient reason to consider drilling or trenching.

The estimated costs for Phase I and Phase II operations for the evaluation of the Property are as follows:

### PHASE I COSTS:

- Geological Mapping, Prospecting	4,000
- Geophysical Surveys (ground Mag. & EM)	1,500
- Geochemical Surveys, Sampling	1,500
- Preliminary Diamond Drilling for Geological Information (457 m @ \$92/m)	42,000
- Assaying	8,000
- Supervision	7,000
- Equipment Purchase & Rental	6,000
- Consulting, Compilation	4,000
- Drafting Services	1,000
- Food & Accommodations	4,000

- Vehicle, Travel, & Supplies	2,000
- Licenses & Fees	5,000
- Administration	5,000
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Subtotal	\$ 91,000
Contingencies (@ 10%)	9,000
<b>- ESTIMATED TOTAL COST - PHASE I</b>	<b>\$100,000</b>

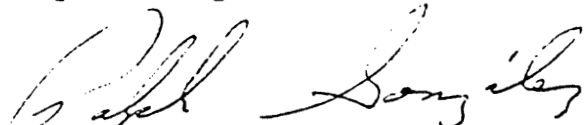
#### PHASE II COSTS:

The Phase II programme should consider the exploration and evaluation of the entire claim group. In this respect, a detailed, low-level airborne geophysical survey incorporating a high sensitivity cesium vapour magnetometer, a two frequency VLF-EM system and a three frequency electromagnetic system is recommended. This type of survey could separate rocks types, identify structural features, and outline silicified zones and areas of sulphide mineralization. A second phase of diamond drill programme should be split into two components, deposit definition and preliminary or scout drilling on secondary targets.

- Airborne geophysical Survey	\$ 35,000
- Diamond Drilling (1500 m @ \$90/m)	135,000
- Trenching, Sampling	12,000
- Geological Mapping, Logging	5,000
- Supervision	8,000
- Equipment Purchase & Rental	8,000
- Supplies	5,000
- Assaying	15,000
- Consulting, Compilation	4,000
- Drafting Services	4,000
- Food & Accommodations	5,500
- Communication	500
- Vehicle, Travel, & Supplies	5,000
- Licenses & Fees	5,000
- Administration	5,000
	<hr/>
Subtotal	\$252,000
Contingencies (@ 10%)	25,000
<b>- ESTIMATED TOTAL COST - PHASE II</b>	<b>\$277,000</b>

A two phase programme is proposed which will require approximately one years for completion. The initial phase will consist of geological mapping, geochemical sampling and ground geophysics in selected areas for target identification. A preliminary drill programme is recommended for additional geological and structural information. The total cost of the phase is estimated at \$100,000 and should take approximately one month to complete. The second phase will consist mainly of total property exploration, including a detailed airborne geophysical programme, and additional diamond drilling and is estimated to cost \$277,000. However, the implementation of a Phase II programme is contingent on the successful completion of Phase I and an independent engineer's recommendation to proceed. Furthermore, successive work phases should be undertaken only if results of the previous phase are encouraging.

Respectfully submitted,



R.A. Gonzalez. M.Sc., F.G.A.C.  
ARCHEAN ENGINEERING LTD.



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**9.0 APPENDIX - ASSAY RESULTS**a  
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e

ACME ANALYTICAL LABORATORIES  
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DATE RECEIVED: OCT 2 1987

DATA LINE 251-1011 DATE REPORT MAILED: *Oct 10/87*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: SOIL AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *[Signature]* DEAN TOYE, CERTIFIED B.C. ASSAYER

CASTLE MINERALS File # 87-4636 Page 1

SAMPLE#	AG PPM	AU* PPB
L6+00S 7+60W	1.7	55
L6+00S 7+40W	1.7	68
L6+00S 7+20W	1.5	71
L6+00S 7+00W	.9	82
L6+00S 6+80W	1.2	49
L6+00S 6+60W	1.2	69
L6+00S 6+40W	1.8	42
L6+00S 6+20W	1.9	41
L6+00S 6+00W	1.5	47
L6+00S 5+80W	1.6	16
L6+00S 5+60W	.7	34
L6+00S 5+40W	.8	8
L6+00S 5+20W	.9	1
L6+00S 5+00W	.7	93
L6+00S 4+80W	.9	49
L6+00S 4+60W	1.2	44
L6+00S 4+40W	1.3	690
L6+00S 4+20W	.5	43
L6+00S 4+00W	.5	77
L6+00S 3+80W	2.7	102
L6+00S 3+60W	.3	25
L6+00S 3+40W	.2	19
L6+00S 3+20W	.4	27
L6+00S 3+00W	.5	12
L6+00S 2+80W	.1	1
L6+00S 2+60W	.2	40
L6+00S 2+40W	1.0	69
L6+00S 2+20W	.8	50
L6+00S 0+20E	.6	440
L6+00S 0+40E	.6	43
L6+00S 0+60E	.5	130
L6+00S 0+80E	.6	530
L6+00S 1+00E	.4	32
L6+00S 1+20E	.6	640
L6+00S 1+40E	.6	93
L6+00S 1+60E	.5	24
STD C/AU-S	7.1	52

SAMPLE#	AG	AU*
	FFM	PPB
L6+00S 1+80E	.4	109
L6+00S 2+00E	.4	185
BL 650S	.2	62
L650S 20E	.1	32
L650S 40E	.4	114
L650S 60E	.4	43
L650S 80E	.5	21
L650S 100E	.6	33
L650S 120E	.3	74
L650S 140E	.2	31
L650S 160E	.4	1
L650S 180E	.4	12
L650S 200E	.5	23
L650S 210E	.4	1
STD C/AU-S	6.8	50

## GEOCHEMICAL ANALYSIS CERTIFICATE

P - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: P1 - 8. . . . SOIL AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *Dean Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

CASTLE MINERALS *By* File # 87-4566 Page 1

SAMPLE#	AG PPM	AU* PPB
RD 800W	.1	3
RD 780W	.2	12
RD 760W	.2	5
RD 740W	.3	2080
RD 720W	.8	79
RD 700W	.1	15
RD 680W	1.7	5
RD 660W	.5	1
RD 640W	.1	1
RD 620W	.2	13
RD 600W	.4	1
RD 580W	.4	8
RD 560W	.2	1
RD 540W	.1	4
RD 520W	.7	2
RD 500W	.6	2
RD 480W	3.3	25
RD 460W	1.6	17
RD 440W	.6	9
RD 420W	.2	4
RD 400W	.3	12
RD 380W	.1	9
RD 360W	.1	8
RD 340W	.1	7
RD 320W	.6	14
RD 300W	.2	5
RD 280W	.4	10
RD 260W	.4	2
RD 240W	.7	68
RD 220W	.8	32
RD 200W	.2	153
RD 180W	.5	38
RD 160W	.7	11
RD 140W	.9	44
RD 120W	.3	57
RD 100W	.1	80
STD C/AU-S	7.5	49

SAMPLE#	AG PFM	AU* FPB
RD 80W	1.3	43
RD 60W	.4	32
RD 40W	1.2	25
RD 20W	.8	40
RD 00W	.7	21
RJ 80E	1.1	1
RJ 80EA	.5	10
RJ 100E	.9	1
RJ 120E	.3	1
RJ 140E	.2	1
RJ 160E	.2	3
RJ 180E	.4	1
RJ 200E	.5	2
RJ 220E	.5	22
RJ 240E	.4	1
RJ 260E	.4	8
RJ 280E	.1	9
RJ 300E	1.3	44
RJ 320E	.9	40
RJ 360E	1.4	101
RJ 380E	.3	40
RJ 400E	.6	78
RJ 420E	2.0	70
RJ 440E	.2	65
RJ 460E	.4	1
RJ 480E	.3	1
RK 20E	1.7	1
RK 40E	.5	58
RK 60E	2.1	64
RK 80E	.8	240
RK 100E	.6	80
RK 120E	1.3	650
RK 140E	1.2	66
RK 160E	.2	35
RK 180E	.7	46
RK 200E	1.0	25
STD C/AU-S	7.4	50

SAMPLE#	AG PPM	AU* PPB
RK 220E	.9	85
RK 240E	.4	12
RK 260E	.5	15
RK 270E	.7	1
RU 740W	.1	1
RU 720W	.1	1
RU 700W	.1	3
RU 680W	.1	1
RU 660W	.1	2
RU 640W	.1	1
RU 620W	.2	1
RU 600W	.1	1
RU 580W	.1	2
RU 560W	.1	2
RU 540W	.2	1
RU 520W	.1	1
RU 500W	.1	1
RU 480W	.3	1
RU 460W	.1	2
RU 440W	.1	1
RU 420W	.1	1
RU 400W	.1	1
RU 380W	.1	1
RU 360W	.2	6
RU 340W	.1	1
RU 320W	.2	63
RU 300W	.1	1
RU 280W	.5	26
RU 260W	.1	1
RU 240W	.2	48
RU 220W	.4	44
RU 200W	.4	1255
RU 180W	.5	25
RU 140W	.7	35
RU 120W	.8	21
RU 100W	.5	165
STD C/AU-S	7.4	48

SAMPLE#	AG PPM	AU* PPB
RU 80W	.5	13
RU 60W	.6	70
RU 40W	.6	15
L5+00S 7+60W	.2	59
L5+00S 7+40W	.5	25
L5+00S 7+20W	.8	9
L5+00S 7+00W	1.2	8
L5+00S 6+80W	.8	76
L5+00S 6+60W	.5	47
L5+00S 6+40W	.9	82
L5+00S 6+20W	1.5	345
L5+00S 6+00W	.4	25
L5+00S 5+80W	.2	590
L5+00S 5+60W	.6	9
L5+00S 5+40W	.4	31
L5+00S 5+20W	.2	1
L5+00S 5+00W	.4	4
L5+00S 4+80W	.1	156
L5+00S 4+60W	1.1	190
L5+00S 4+40W	.3	64
L5+00S 4+20W	.7	11
L5+00S 4+00W	.2	2
L5+00S 3+80W	.4	15
L5+00S 3+60W	.3	10
L5+00S 3+40W	.1	35
L5+00S 3+20W	.2	17
L5+00S 3+00W	.1	4
L5+00S 2+80W	.3	1845
L5+00S 2+60W	.4	103
L5+00S 2+40W	.6	3
L5+00S 2+20W	.2	9
L5+00S 2+00W	.1	1260
L5+00S 1+80W	.1	14
L5+00S 1+80W A	.8	12
L5+00S 1+60W	.1	19
L5+00S 1+40W	.5	52
STD C/AU-S	7.5	48



SAMPLE#	AG PPM	AU* PPB
LS+00S 1+20W	.3	13
LS+00S 1+00W	.3	1
LS+00S 0+80W	.7	1
LS+00S 0+60W	.8	1
LS+00S 0+40W	.5	9
LS+00S 0+20W	.9	3
LS+00S 0+00W BL	.9	1
LS+00S 0+00W A	.2	40
LS+00S 0+00W B	.5	1
LS+00S 0+20E	.9	1
LS+00S 0+40E	.1	1
LS+00S 0+60E	.5	41
LS+00S 0+80E	.3	26
LS+00S 0+120E	.1	10
LS+00S 1+00E	.1	1
LS+00S 1+20E	.1	6
LS+00S 1+40E	.5	1
LS+00S 1+60E	.3	1
LS+00S 1+80E	.3	21
LS+00S 2+00E	.6	7
LS+00S 2+20E	.4	49
LS+00S 2+40E	.3	9
LS+50S 7+60W	.5	14
LS+50S 7+40W	.5	28
LS+50S 7+20W	.8	10
LS+50S 6+80W	1.8	45
LS+50S 6+60W	.7	53
LS+50S 6+40W	2.2	145
LS+50S 6+00W	.6	9
LS+50S 5+60W	.5	14
LS+50S 5+40W	1.1	1
LS+50S 5+00W	1.7	1
LS+50S 4+80W	.1	44
LS+50S 4+60W	.3	86
LS+50S 4+40W	.5	147
LS+50S 4+20W	.5	280
STD C/AU-S	7.1	52

SAMPLE#	AG PPM	AU* PPB
L5+50S 4+00W	.3	56
L5+50S 3+80W	.1	32
L5+50S 3+60W	1.5	375
L5+50S 3+40W	.1	250
L5+50S 3+20W	.2	220
L5+50S 3+00W	1.9	33
L5+50S 2+80W	.2	23
L5+50S 2+60W	.1	26
L5+50S 2+40W	.6	151
L5+50S 2+40W A	.4	18
L5+50S 2+20W	.7	2
L5+50S 2+00W	.4	88
L5+50S 1+80W	.9	33
L5+50S 1+60W	1.2	14
L5+50S 1+40W	.2	3
L5+50S 1+20W	.4	28
L5+50S 0+20E	.7	56
L5+50S 0+40E	.7	131
L5+50S 0+60E	.9	110
L5+50S 0+80E	.1	15
L5+50S 1+00E	.4	17
L5+50S 1+20E	.1	2385
L5+50S 1+40E	.4	250
L5+50S 1+60E	.1	24
L5+50S 1+80E	.5	52
L5+50S 2+00E	1.5	64
L5+50S 2+20E	.3	580
L5+50S 2+60E	1.9	15
L600S 1120W	1.5	145
L600S 1100W	1.7	123
L600S 1080W	1.8	64
L600S 1060W	1.1	62
L600S 1040W	3.0	104
L600S 1020W	1.6	5
L600S 1000W	27.7	3
L600S 980W	1.8	8
STD C/AU-S	7.5	49

SAMPLE#	AG FFM	AU* PPB
L600S 960W	.5	3
L600S 940W	1.0	6
L600S 920W	2.1	5
L600S 900W	.7	2
L600S 880W	.7	1
L600S 860W	.9	3
L600S 840W	.3	2
L600S 820W	.1	1
L600S 800W	1.0	5
L600S 780W	.1	385
L650S 840W BL	.2	47
L650S 820W	.3	33
L650S 800W	.4	8
L650S 780W	.3	4
L650S 760W	.4	1
L650S 740W	.3	36
L650S 720W	.2	20
L650S 700W	.8	15
L650S 680W	.3	1
L650S 660W	.3	2
L650S 640W	.5	1
L650S 620W	.2	1
L650S 600W	1.0	1
L650S 580W	.1	1
L650S 560W	.2	1
L650S 540W	.2	2
L650S 520W	1.0	105
L650S 500W	.5	26
L650S 480W	.5	6
L650S 460W	.6	9
L650S 440W	2.2	1
L650S 420W	.4	45
L650S 400W	.4	24
L650S 380W	.2	1
L650S 360W	.1	19
L650S 340W	.3	26
STD C/AU-S	7.2	48

SAMPLE#	AG PPM	AU* PPB
L650S 320W	.2	17
L650S 300W	.1	1
L650S 280W	.1	22
L650S 260W	.1	62
L650S 240W	.3	10
L650S 220W	1.2	8
L650S 200W	.4	55
L650S 180W	1.0	29
L650S 160W	.3	11
L650S 140W	1.2	395
L650S 120W	.2	17
L650S 100W	.1	152
L650S 80W	.5	98
L650S 60W	.2	37
L650S 40W	.3	67
L650S 20W	.5	3
L650S BLI	.7	136
2401A GOUGE E	.3	53
2401B GOUGE W	.2	5
2403	.2	39
92202A	1.0	96
STD C/AU-S	7.2	52

ACME ANALYTICAL LABORATORIES

DATE RECEIVED: SEPT 18 1987

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011 DATE REPORT MAILED:

*Sept. 29/87*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1-7 SOIL P8-ROCK

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

CASTLE MINERALS File # 87-4266 Page 1

SAMPLE#	AG PPM	AU PPB
L100S 500W	.3	12
L100S 480W	.3	2
L100S 460W	.1	32
L100S 440W	.3	1
L100S 420W	.4	1
L100S 400W	.1	1
L100S 380W	.1	60
L100S 360W	.5	11
L100S 340W	.3	5
L100S 320W	.8	139
L100S 300W	.4	1010
L100S 280W	.4	117
L100S 260W	.5	48
L100S 240W	.3	14
L100S 220W	.2	45
L100S 200W	1.0	4
L100S 180W	.2	1
L100S 160W	.2	144
L100S 140W	.2	47
L100S 120W	.1	26
L100S 100W	.1	112
L100S 80W	.1	49
L100S 60W	.1	55
L100S 40W	.1	92
L100S 20W	.3	66
L100S 00E	.1	35
L100S 20E	.2	11
L100S 40E	.3	29
L100S 60E	.2	1
L100S 80E	.3	82
L100S 100E	.5	41
L100S 120E	.5	129
L100S 140E	.3	15
L100S 160E	.1	15
L100S 180E	.5	18
L100S 200E	.9	81
STD C/AU-S	7.0	52

SAMPLE#	AG PPM	AU PPB
L100S 220E	.4	21
L100S 240E	.1	27
L100S 260E	.2	13
L100S 280E	.1	34
L100S 300E	.1	116
L100S 320E	.1	24
L100S 340E	.1	30
L100S 360E	.2	15
L100S 380E	.1	1
L100S 400E	.6	5
L100S 420E	.2	70
L100S 440E	.2	20
L150S 500W	.1	2
L150S 480W	.1	5
L150S 460W	.1	6
L150S 440W	.3	28
L150S 420W	.2	36
L150S 400W	.1	29
L150S 380W	.4	63
L150S 360W	.1	27
L150S 340W	.3	11
L150S 320W	.1	5
L150S 300W	.2	121
L150S 294W SILT	1.3	167
L150S 280W	.1	113
L150S 260W	.1	5
L150S 240W	.3	6
L150S 220W	.2	5
L150S 200W	.2	6
L150S 180W	.1	65
L150S 160W	.3	2
L150S 140W	.1	1
L150S 120W	.1	6
L150S 100W	.1	5
L150S 80W	.4	89
L150S 60W	.2	5
STD C/AU-S	7.4	53

SAMPLE#	AG PPM	AU PPB
L150S 40W	.3	13
L150S 20W	.7	26
L150S 00W	.4	62
L150S 00E	.2	35
L150S 20E	.3	15
L150S 40E	.1	2
L150S 60E	.1	10
L150S 80E	.1	36
L150S 100E	.5	305
L150S 120E	.3	87
L150S 140E	.4	13
L150S 160E	.5	16
L150S 200E	.3	2
L150S 220E	.2	69
L150S 240E	.4	21
L150S 260E	.3	112
L150S 280E	.1	8
L150S 300E	.5	1
L150S 320E	.2	15
L150S 340E	.4	11
L150S 360E	.2	32
L150S 380E	.3	1
L150S 400E	.2	6
L150S 420E	.1	3
L150S 440E	.1	1
L200S 00E	.3	210
L200S 20E	.1	1
L200S 40E	.2	19
L200S 60E	.9	570
L200S 80E	.1	9
L200S 100E	.2	6
L200S 120E	.1	25
L200S 140E	.3	16
L200S 160E	.1	1
L200S 180E	.3	330
L200S 200E	.2	2
L200S 220E	.1	13
STD C/AU-S	6.9	48

SAMPLE#	AG PPM	AU PPB
L200S 240E	.3	20
L200S 260E	.1	34
L200S 280E	.2	32
L200S 300E	.4	22
L200S 320E	.3	13
L200S 340E	.1	9
L200S 360E	.1	13
L200S 380E	.3	1
L200S 400E	.2	3
L200S 420E	.2	26
STD C/AU-S	7.0	48
L200S 440E	.2	46
L200S 460E	.1	30
L200S 480E	.1	13
L200S 500E	.1	3
L250S 500W	.1	67
L250S 480W	.1	7
L250S 460W	.1	4
L250S 440W	.5	7
L250S 420W	.3	8
L250S 400W	.1	1
L250S 380W	.1	16
L250S 340W	.6	89
L250S 320W	.1	8
L250S 300W	.1	43
L250S 280W	.1	5
L250S 260W	.2	2
L250S 240W	.1	1
L250S 220W	.2	29
L250S 200W	.3	1
L250S 180W	.1	1
L250S 160W	.2	5
L250S 140W	.3	7
L250S 120W	.2	18
L250S 100W	.1	4
L250S 80W	.1	1
L250S 60W	.4	2



SAMPLE#	AG PPM	AU PPB
L250S 40W	.1	16
L250S 20W	.4	22
L250S 00E	1.5	28
L250S 20E	.7	12
L250S 40E	.2	25
L250S 60E	.3	1
L250S 80E	.6	60
L250S 100E	.6	47
L250S 120E	.5	13
L250S 140E	.3	18
L250S 160E	.1	10
L250S 180E	3.5	11
L250S 200E	.6	610
L250S 220E	.9	6
L250S 240E	1.1	24
L250S 260E	.5	10
L250S 280E	.1	6
L250S 300E	.1	1
L250S 320E	.1	1
L250S 340E	.2	70
L250S 360E	.1	11
L250S 380E	.3	3
L250S 400E	.5	21
L250S 420E	.1	2
L250S 440E	.5	1
L250S 460E	.1	1
L250S 480E	.3	1
L250S 500E	.1	13
RG 620E	.3	81
RG 640E	.5	67
RG 660E	.1	1
RG 680E	.2	37
RG 700E	.9	21
RG 720E	.7	1
RG 740E	.3	15
RG 760E	.1	2
STD C/AU-S	6.9	49

SAMPLE#	AG PPM	AU PPB
RG 780E	.2	59
RG 800E	.5	60
RG 820E	.1	58
RG 840E	.8	24
RG 860E	.1	68
RG 880E	.1	62
RG 900E	.1	36
RG 920E	1.6	31
RG 940E	.4	4
RG 960E	.3	47
RG 980E	1.0	18
RG 1000E	.4	4
RG 1020E	.3	13
RG 1040E	.2	5
RG 1060E	.2	105
RG 1080E	.3	16
RG 1100E	.4	45
RG 1120E	.3	18
RG 1140E	.2	25
RG 1160E	.3	8
RG 1180E	.1	58
RG 1200E	.1	68
RG 1220E	.5	12
RG 1240E	.4	18
RG 1260E	.1	6
RG 1280E	.3	2
RG 1300E	.1	1
RG 1320E	.2	22
RG 1340E	.1	1
RG 1360E	.2	2
RG 1380E	.2	1
RG 1400E	.1	12
RG 1420E	.3	5
RG 1440E	.3	28
RG 1460E	.2	18
RG 1480E	.2	6
STD C/AU-S	7.1	49

SAMPLE#	AG PPM	AU PPB
RG 1500E	.1	13
RG 1520E	.1	21
RG 1540E	.1	16
RG 1560E	.1	25
RG 1580E	.1	13
RG 1600E	.1	11
RG E MIDDLE	.1	42
RG 760+740 MIDDLE	.1	1
RH 00E	.3	14
RH 20E	.1	11
RH 40E	.2	5
RH 60E	6.6	12
RH 80E	.1	3
RH 100E	.1	5
RH 120E	.1	6
RH 140E	.1	8
RH 160E	.2	5
RH 180E	.2	10
RH 200E	.2	27
RH 220E	.1	9
RH 240E	.1	12
RH 260E	.3	5
RH 280E	.4	2
RH 300E	.1	14
6-4-87 SILT	1.3	29
6-6-87 SILT	.1	23
6-7-87 SILT	1.0	13
6-8-87 SILT	.5	5
SPARROW 386E SILT	.1	1
STD C/AU-S	7.2	51

SAMPLE	Ag ppm	Au* ppb
R6-1-87	.4	5690

ACME ANALYTICAL LABORATORIES  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158

DATE RECEIVED: SEPT 13 1987

DATA LINE 251-1011 DATE REPORT MAILED:

*Sept. 23/87*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1-6 SOIL P7-SILT P8-ROCK P9-HM CONC. AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

CASTLE MINERALS File # 87-4115 Page 1

SAMPLE#	AG PPM	AU* PPB
MR 1760W	1.1	1
MR 1700W	.1	1
MR 1660W	.6	2
MR 1620W	1.1	1
MR 1560W	.7	13
MR 1520W	.3	2
MR 1480W	.2	3
MR 1440W	1.4	94
MR 1400W	1.9	9
MR 1340W	1.0	28
MR 1300W	.7	15
MR 1260W	.5	66
MR 1220W	.5	5
MR 1180W	.6	33
MR 1140W	.7	4
MR 1100W	1.1	30
0+1060	1.5	4
0+1020	.7	23
0+980	1.0	6
0+940	.6	7
0+900	2.0	2
0+860	.2	7
0+840	1.7	6
0+800	.3	10
0+760	2.0	1
0+730	.7	52
0+700	3.5	165
0+660	1.3	29
0+620	1.0	46
0+580	1.0	9
0+540	.3	12
0+500	.9	32
0+470	.6	35
0+420	.4	47
0+394	.6	785
0+360	.6	135
STD C/AU-S	6.9	52

SAMPLE#	AG PPM	AU* PPB
O+320	.4	61
O+240	.4	1
O+200	.7	2
O+172	.5	4
O+100	.6	12
O+80	.2	1
O+40	.7	6
RA 220E	.3	7
RA 260E	.2	16
RB 120E	.3	53
RB 140E	.3	7
RB 160E	.2	23
RB 180E	.4	73
RE 1000W	.5	7
RE 980W	.8	2
RE 960W	.2	1
RE 940W	.2	1
RE 920W	.2	1
RE 900W	.2	1
RE 880W	.3	1
RE 860W	.3	4
RE 840W	.4	1
RE 820W	.1	1
RE 800W	.3	1
RE 780W	2.6	50
RE 760W	.9	21
RE 740W	.6	74
RE 720W	.7	2
RE 700W	.4	1
RE 680W	.2	2
RE 660W	.2	7
RE 640W	.8	1
RE 620W	.5	49
RE 600W	1.5	46
RE 580W	.1	3
RE 560W	.9	8
STD C/AU-S	6.9	49

SAMPLE#	AG PPM	AU* PPB
RE 540W	.7	5
RE 520W	1.3	15
RE 500W	.7	2
RE 480W	1.5	4
RE 460W	.3	8
RE 440W	.8	62
RE 420W	.8	31
RE 400W	.7	84
RE 380W	1.3	87
RE 360W	4.7	325
RE 340W	.4	75
RE 320W	1.4	112
RE 300W	1.6	121
RE 280W	.9	86
RE 260W	.4	95
RE 240W	.6	55
RE 220W	.8	51
RE 200W	.5	9
RE 180W	1.6	159
RE 160W	3.3	480
RE 140W	.9	91
RE 120W	.9	320
RE 100W	.8	250
RE 80W	1.2	73
RE 60W	.5	191
RE 40W	.2	34
RE 20W	.6	57
RE 00W	.4	630
RE 00E	1.3	14
RE 20E	3.6	9
RE 40E	.9	59
RE 60E	1.1	22
RE 80E	.7	40
RE 100E	1.3	47
RE 120E	.8	39
RE 140E	1.5	111
STD C/AU-S	7.1	51

SAMPLE#	AG PPM	AU* PPB
RE 160E	1.3	42
RE 180E	1.2	123
RE 200E	1.8	80
RE 220E	.7	76
RE 240E	1.2	58
RE 260E	.6	43
RE 280E	.4	67
RE 300E	.4	60
RE 320E	.6	29
RE 340E	1.9	36
RE 360E	.6	64
RE 380E	.6	98
RE 400E	1.2	310
RE 420E	.7	38
RE 440E	.4	135
RE 460E	.5	46
RE 480E	1.4	240
RE 500E	.5	280
RE 520E	.3	355
RE 540E	.3	96
RF 00	.8	107
RF 20E	.5	955
RF 40E	.7	112
RF 60E	.4	21
RF 80E	.8	15
RF 100E	.5	73
RF 120E	.4	9
RF 140E	.1	14
RF 160E	.1	20
RF 180E	.2	32
RF 200E	.6	15
RG 00	.9	24
RG 20E	.6	28
RG 40E	.5	7
RG 60E	.6	3
RG 80E	.4	5
STD C/AU-S	7.1	50



SAMPLE#	AG PPM	AU* PPB
RG 100E	.2	4
RG 120E	.6	34
RG 140E	.8	59
RG 160E	.8	46
RG 180E	1.2	37
RG 200E	1.9	71
RG 220E	2.0	67
RG 240E	2.3	58
RG 260E	2.3	74
RG 280E	.7	53
RG 300E	.3	45
RG 310E	.6	46
RG 320E	1.1	1010
RG 340E	2.1	39
RG 360E	.5	62
RG 380E	1.1	55
RG 400E	.5	8
RG 420E	1.3	73
RG 440E	.4	45
RG 460E	.3	95
RG 480E	.6	22
RG 500E	.4	43
RG 520E	.4	14
RG 540E	.6	36
RG 560E	.5	56
RG 580E	.4	185
RG 600E	.5	245
SL 2	1.1	20
SL 3	2.3	185
SL 4	.9	113
6-3 87	.3	12
6-31 87	.6	9
6-32 87	2.4	11
6-33 87	.9	7
6-35 87	.2	2
6-39 87	.4	8
STD C/AU-S	7.0	49

SAMPLE#	AG PPM	AU* PPB
6-40 87	.1	1
6-41 87	.4	6

SAMPLE#	AG PPM	AU* PPB
MR 1580 P	1.1	1
MR 1720 P	.4	6
MR 1780 P	.9	1
RE 910W P	.1	1
RE 810W P	.3	8
RE 750W P	.1	1
RE 250W P	.2	152
RE 210W P	.1	63
RE 200E P	1.0	41
RF 20E P	.2	23
RF 63E P	.2	37
RG 65E P	.3	3
RG 505E P	.1	1
RG 540E P	.3	51
SL 1 P	1.1	30
SL 5 P	1.0	118
SL 6+200 P	1.4	27
6-2-87 P	1.0	7
6-5-87 P	.3	4
6-30-87 P	.4	22
8-1-87 P	.1	1
0+132 P	.2	12
0+264 P	.6	23
STD C/AU-S	7.2	52

P-20 MESH, PULVERIZED

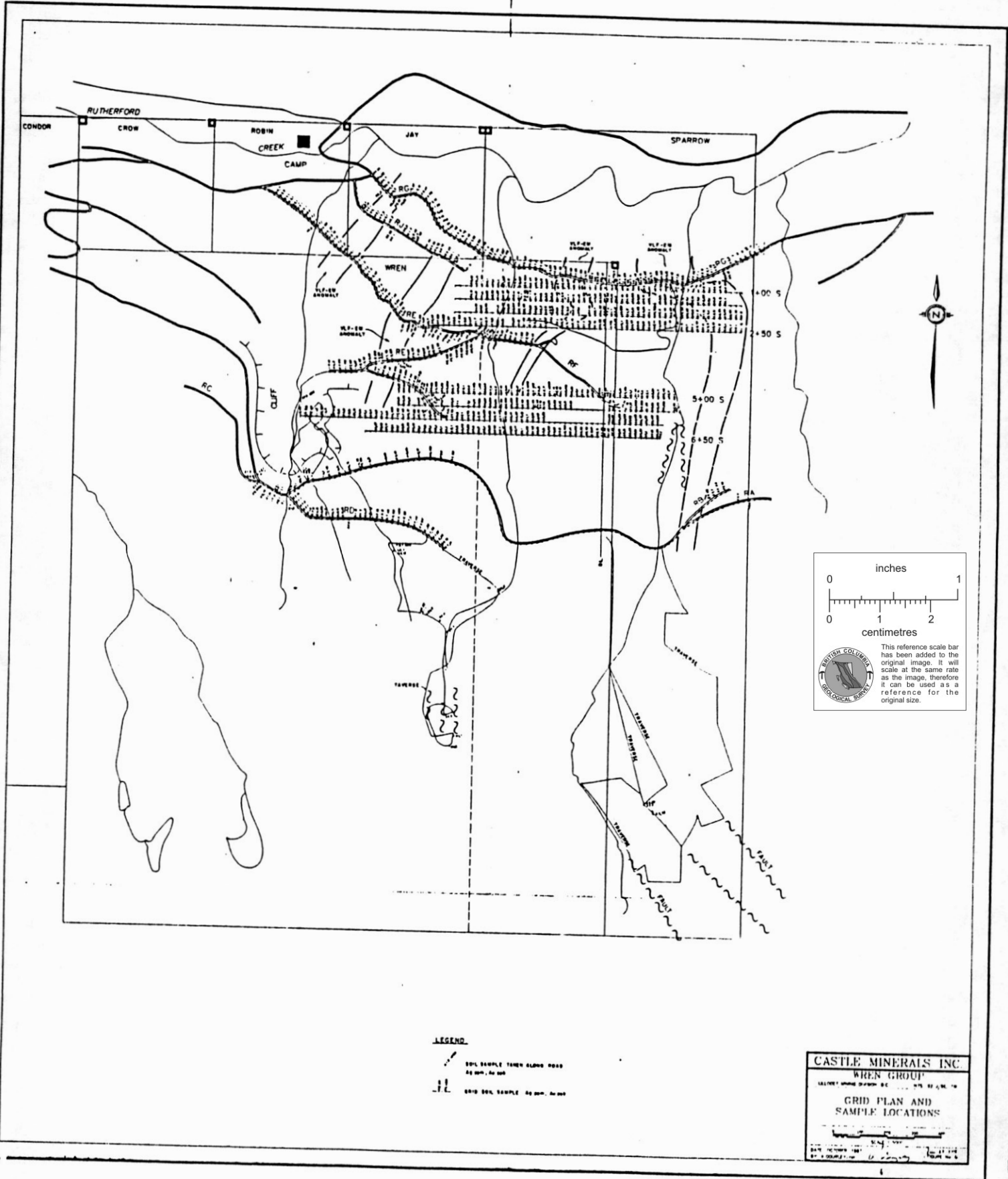
SAMPLE#	AG PPM	AU* PPB
8-1-87R	.2	12
630	.1	1
GG 1	.4	490
GG 2	.2	21
GG 3	3.2	44
MR 1780	.8	1
MR 1810	.8	1
M.RD.	.1	2
RX 6-9-87	.6	265
RX 6-10-87	.1	3
S.R.	.5	22
CR 1 FLOAT	30.8	1895
ROCK 1 RE 160E	.3	69
ROCK 2 RE 520E	.2	19
ROCK 3 RE 520E	.2	4
ROCK 4 RE 520E	.1	715
RSL 7	.6	142
RSL 8	.4	15
RSL 9	.4	5
RSL 10	.7	26
CHERT 0+132	.1	2
R 0+132	3.1	82
RMR 1780	.6	1
RMR 1440	.3	26
R 1400W	.8	2
STD C/AU-R	7.1	490

CASTLE MINERALS


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
Page 9

SAMPLE#	AG PFM	AU* PPB
0+132	.4	1
0+394	.4	12



**LEGEND**

 SOIL SAMPLE TAKEN ALONG ROAD  
 25 MET. 25 MET.


 GRID SOIL SAMPLE 25 MET. 25 MET.

inches

0 1

centimetres

0 1 2


 This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

**CASTLE MINERALS INC.**  
**WREN GROUP**  
 SURVEY WORK GROUP, INC. 575 ST. J. ST. 14

**GRID PLAN AND SAMPLE LOCATIONS**

DATE: 11 OCTOBER 1961  
 BY: [Signature]  
 SCALE: 1:50,000