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

ASSESSMENT 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.

DECEMBER 1989

Claim Name	Record No.	Units	Anniversary Date
SPARROW	3817	12	SEPT. 21, 1987
JAY	3819	1	SEPT. 21, 1987
ROBIN	3820	1	SEPT. 21, 1987
CROW	3821	1	SEPT. 21, 1987
WREN	3835	20	OCTOBER 5, 1987

LOCATION: 50° 16' N, 123° 00' W
OWNERS: CASTLE MINERALS INC.
(SPARROW, JAY, ROBIN, AND CROW CLAIMS)
JIM MCDONALD (WREN CLAIM)
OPERATOR: CASTLE MINERALS INC..
CONSULTANT: ARCHEAN ENGINEERING LTD.
PROJECT GEOLOGIST: R. GONZALEZ, P.ENG.

ASSESSMENT REPORT ON THE WREN CLAIM GROUP
RUTHERFORD CREEK AREA
LILLOOET MINING DIVISION, B.C.
NTS 92 J/6E AND 7W

SUMMARY

In early 1987, **CASTLE MINERALS INC.** optioned 1 Modified Grid claim (Wren Claim), comprised of 20 units in the Lillooet Mining Division. Three 2-post claims and one additional Modified Grid claim (Sparrow Claim), totalling 12 units, were later added to Castle's land position. The claims are located in the valley of Rutherford Creek, approximately 15 km southeast of the village of Pemberton.

Access to the claims is via a graded-gravel logging road along the north side of Rutherford Creek. A bridge crosses the Creek immediately north of the claims where additional logging roads traverse the claims.

The property was staked to cover a large, gold-bearing shear zone found in the lower slopes immediately south of Rutherford Creek. This area was first staked in the late 1970's and various cursory development programmes, including geochemical sampling, a test I.P. survey, and trenching. The I.P. survey outlined an anomalous area within the shear; however, this anomaly was never drill tested. Trenching over a portion of the I.P. anomaly exposed a silicified, pyrite-bearing shear zone carrying low gold values.

The results of these earlier programmes and an exploration programme carried out by Castle in 1988 outlined a 200 m wide shear zone which contained up to 780 ppb gold in soils and visible flakes of angular gold from panned soils.

Between 15 May and 15 July, 1989, Castle Minerals completed five diamond-drill holes totalling 219.8 m (721 feet). The results of Castle's 1988 soil and rock geochemical survey were used as a guide for target selection. This report summarizes the results of this small diamond drilling programme.

TABLE OF CONTENTS

FIGURES

TABLES

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 one Modified Grid claims comprised of 12 units, contiguous to the original Wren Claim. These claims form a block collectively called the Wren Claim Group.

Between 15 May and 15 July, 1989, five, short diamond-drill holes totalling 219.8 m (721 feet) were completed to test five areas geochemically anomalous in gold. This report summarizes the results of that programme and discusses the various occurrence of gold as indicated from the drilling.

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 (Figure 1). The town of Pemberton in 10 km north, and the Village of Whistler is approximately 15 km to the south. Terrestial co-ordinates for the centre of the claim block are as follows:

50^{o} 16' North Latitude
123^{o} 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 claims, totalling 32 units, and three 2-post claims (Figure 2). All claims are contiguous. The Wren Claim is held by an option agreement with the recorded holder, Mr. Jim McDonald 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

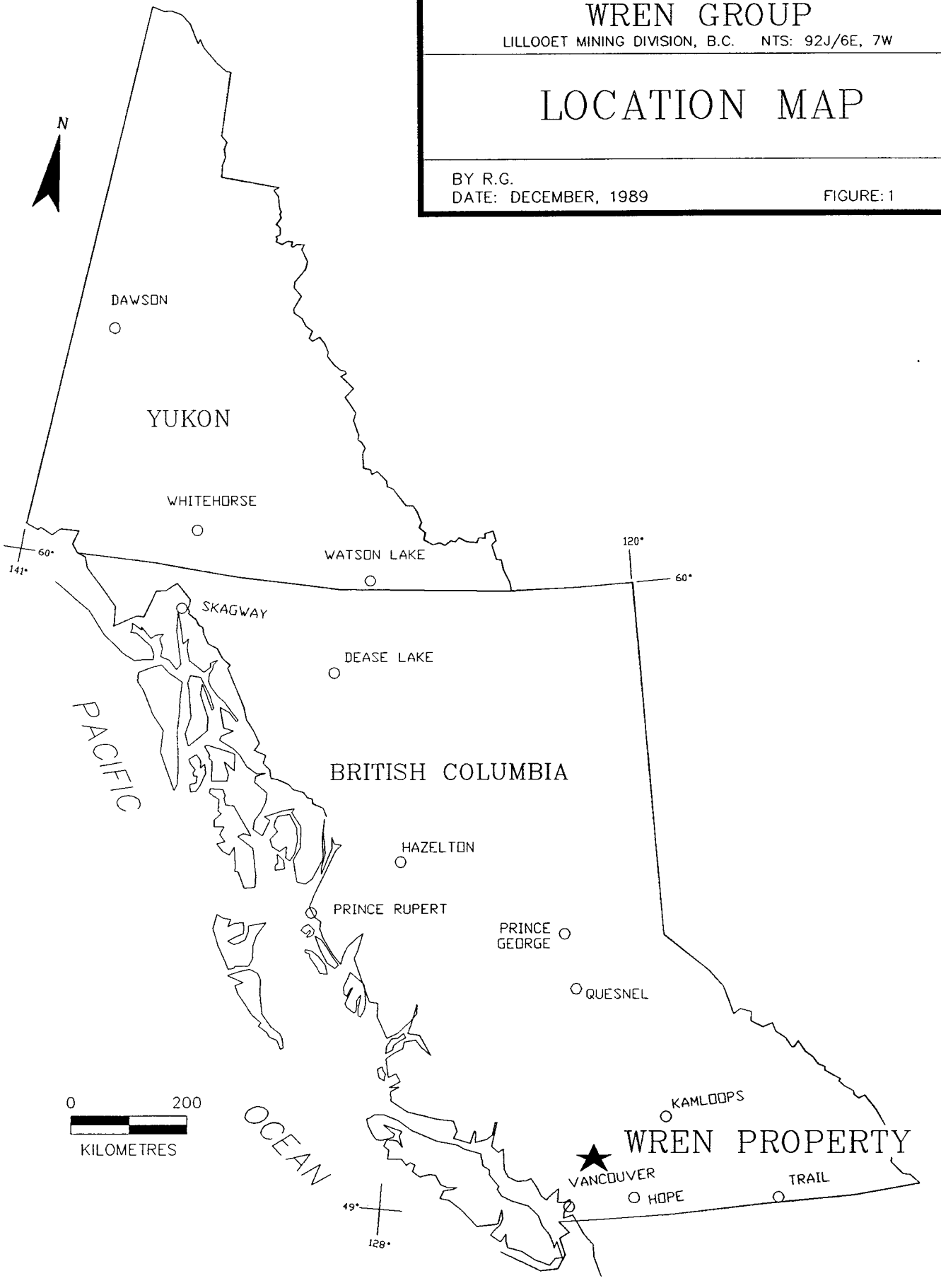
CASTLE MINERALS INC.

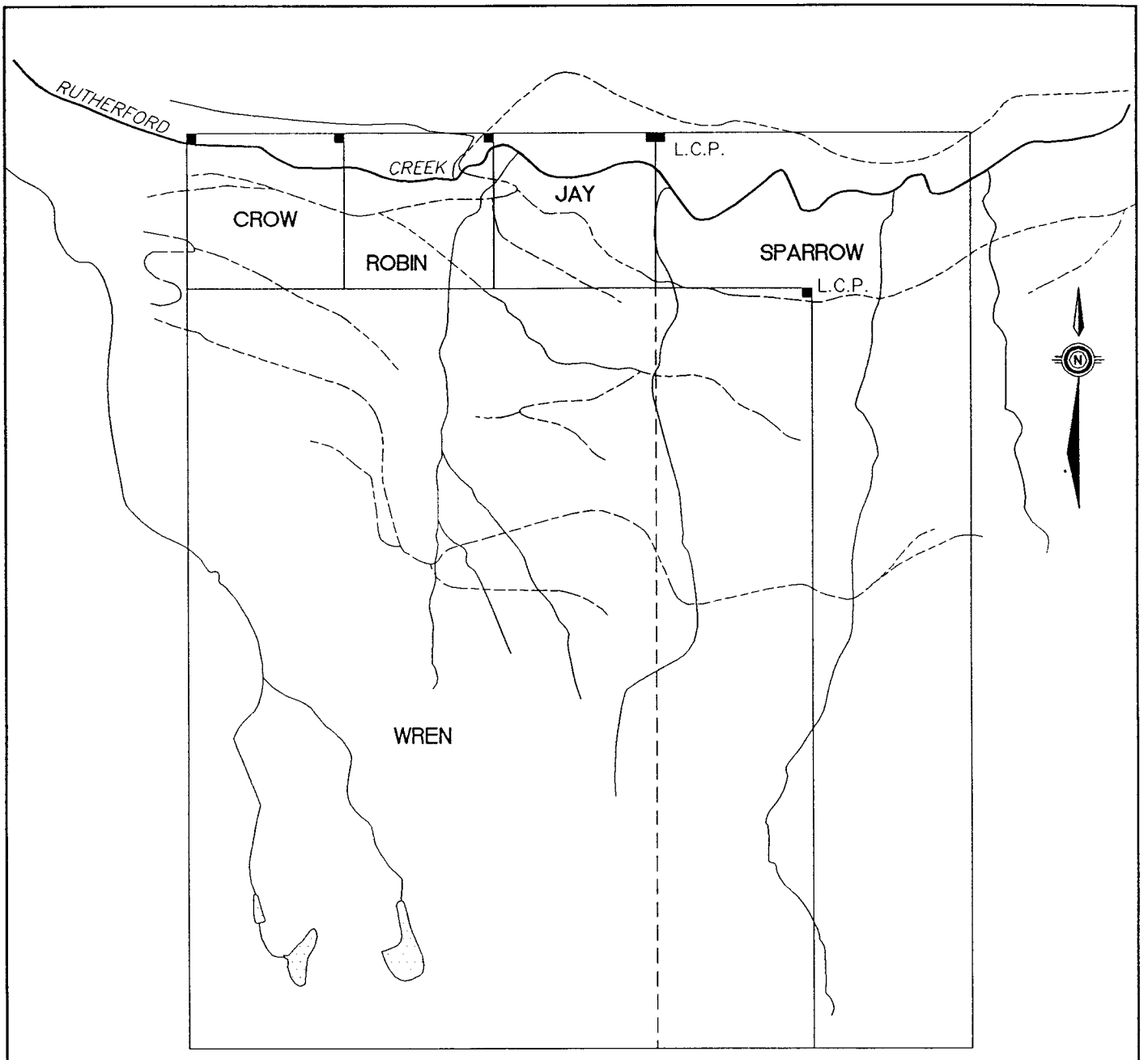
WREN GROUP

LILLOOET MINING DIVISION, B.C. NTS: 92J/6E, 7W

LOCATION MAP

BY R.G.
DATE: DECEMBER, 1989 FIGURE: 1





SCALE 1:5,000

0 50 100 150 200 250

METRES

CASTLE MINERALS INC.

WREN GROUP

LILLOOET MINING DIVISION, B.C. NTS: 92J/6E, 7W

CLAIM MAP

BY: R.G./p.s.
DATE: DECEMBER, 1989

FIGURE: 2

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°C to a high of 18.6°C. However, condition 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 age.

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 roof 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.

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.

The geology within the Wren Claim block appears to be divided into three parts, sediments to the east, volcanics in the centre, and quartz diorite to the west. The sediments are mostly fissile shales, black carbonaceous argillites, and minor calcareous shales or limestone. The volcanics are dominantly flows and pyroclastic andesites with minor flow breccias. The principal plutonic rock is a coarse-grained, quartz diorite within several high-level, quartz monzonite stocks intruding the quartz diorite.

3.0 PREVIOUS WORK SUMMARY

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 metres 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 onto 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 core area of the original GL claims was 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 of the original showing. 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.

Results of the geochemical programme were very encouraging. Samples ranged from 1 ppb to 5690 ppb. With an anomalous threshold arbitrarily set at 100 ppb gold, over 15% of the samples are anomalous. The results of the geochemical survey were sufficiently encouraging to warrant drill testing some of the anomalous areas. A small programme of 5 drill holes totalling approximately 200 metres was proposed, and in mid-May a BBS-1 drill rig was mobilized to the property.

4.0 DIAMOND DRILL PROGRAMME

Previous geochemical soil sampling has identified an area approximately 200 X 250 metres 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 metres wide, are present and extend beyond the claim boundaries in both the northern and southern directions.

Five, short drill holes, totalling 219.6 metres (721 feet) were completed. Table II summarizes the drill data and Figure 3 shows the 1989 drill hole locations. All of the core was split, logged, and assayed. On the average, all core was divided into 3 metre (10 feet) sections, split lengthwise, and sent to Acme Analytical Labs. Ltd. for assaying. The core is in temporary storage in West Vancouver. Diamond-drill logs are presented in Appendix A, and assay results are presented in Appendix B.

TABLE II

SUMMARY OF DIAMOND DRILL DATA

Core diameter: AQ wire line

HOLE NO.	AZIMUTH	DIP	DEPTH
89-1	228o	-70o	32.6 m (107')
89-2	260o	-60o	60 m (197')
89-3	255o	-60o	61.2 m (201')
89-4	155o	-47o	43.3 m (142')
89-5	260o	-45o	22.5 m (74')

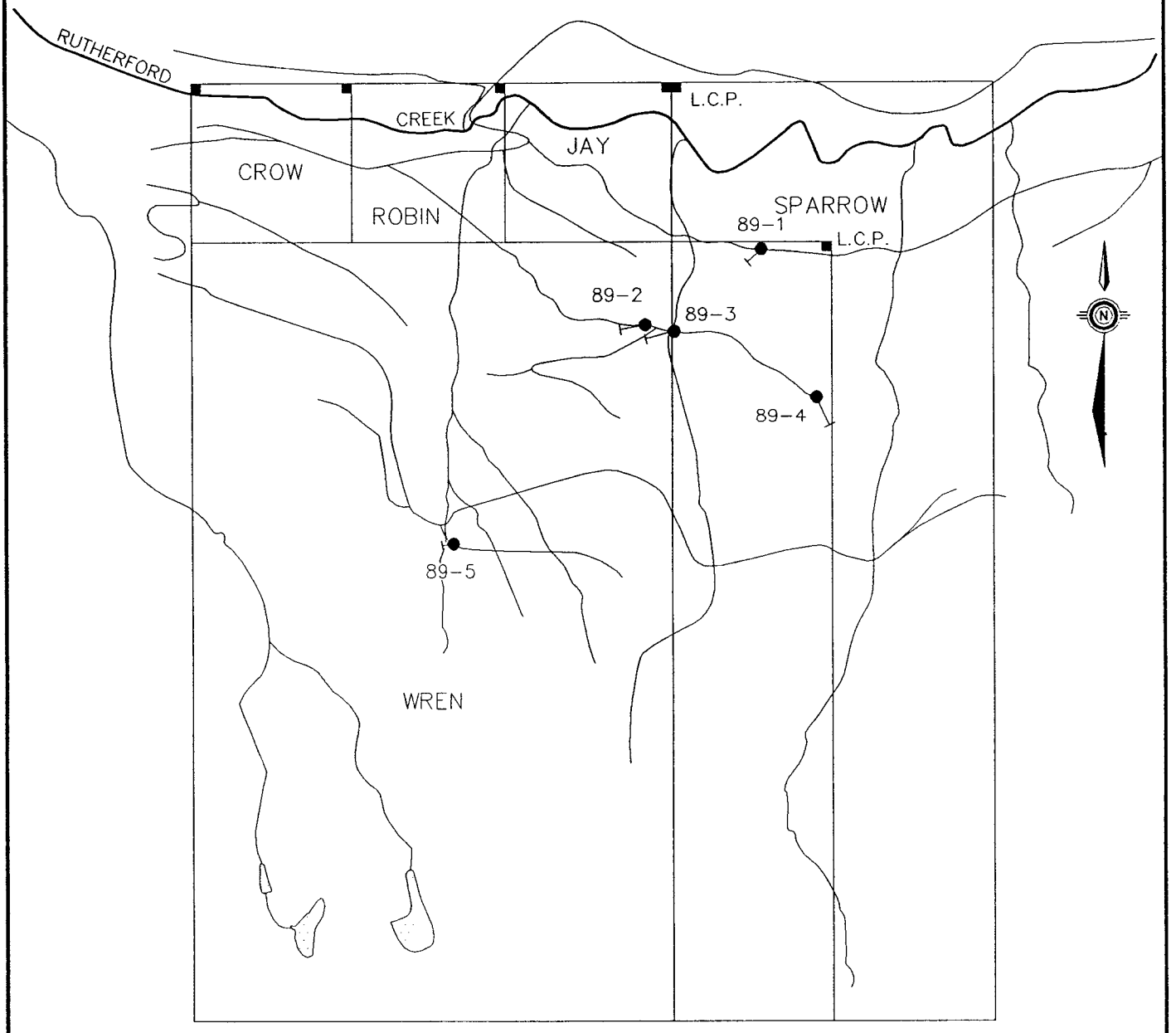
Hole 89-1 was collared to test a gossanous outcrop within an area of anomalous soil and rock samples. The rock was highly fractured and core recovery was poor; however, the bedrock appeared to be a silicified, light greyish-green andesite containing approximately 2 per cent pyrite. Although gold values were generally low, fault gouge (at 21.3 and 27.4 metres) returned 102 and 140 ppb Au and 488 and 722 ppm W respectively.

Holes 89-2 and 89-3 were collared a few tens of metres apart and were designed to test an area of high gold geochemistry in rock and soil samples. Hole 89-2 was collared west of Hole 89-3 and was to test what was believed to be a narrow, pink-coloured monzonite dyke within a zone of highly anomalous soil samples. Except of the first 10 metres, which was andesite, the entire hole returned monzonite with minor, narrow (1-3 cm) gold-bearing quartz veins. Hole (89-3) was to test the faulted contact between volcanics to the east and plutonics to the west. This hole intersected andesite to 21.9 metres with the balance of the hole in monzonite. Minor pyrite and pyrrhotite and traces of chalcopyrite were present in the volcanics. The monzonite showed minor propylitic alteration and traces of chalcopyrite. Although the volcanics were commonly sheared, there was no indication of a fault contact between the two igneous rocks. As in Hole 89-2, gold was confined to narrow quartz veins up to 3 cm wide.

Hole 89-4 was drilled to test a large area on anomalous soil samples. The core is composed of argillite to 10.7 m, and the balance of the core was altered andesite. Two 10-foot sections of the argillite contained numerous, quartz stringer which returned gold assays of 185 and 600 ppb.

Hole 89-5 was drilled to test a gold-sulphide and gold bearing shear zone up slope from the area trenched by the previous claim holders. The core contained altered andesite with approximately five per cent pyrite and only traces of gold. The anomalous surface samples were not explained.

The results from the drilling programme indicate that gold is present within fault gouge and appears to be associated with pyrite, in narrow, quartz-veins in the plutonic rocks, and in quartz stringers within an argillite host.



SCALE 1:5,000

0 50 100 150 200 250

METRES

CASTLE MINERALS INC.

WREN GROUP

LILLOOET MINING DIVISION, B.C. NTS: 92J/6E, 7W

DRILL HOLE LOCATIONS

BY: R.G.
DATE: DECEMBER, 1989

FIGURE: 3

5.0 COSTS STATEMENT

CASTLE MINERALS INC.
WREN CLAIM GROUP
RUTHERFORD CREEK AREA
15 MAY TO 15 JULY 1989

GENERAL COSTS

FOOD & ACCOMMODATION:	
4 persons, 67 man-days @ $45/day	$12,060.00
SALARIES	21,353.00
VEHICLES/TRANSPORTATION	14,886.00
SUPERVISION:	5,750.00
ENGINEERING AND CONSULTING:	2,802.86
CAMP FUEL:	250.00
ROAD MAINTENANCE & DRILL SITE PREP.	1,300.00
DRILL MOB.-DEMOB.	2,000.00
DRILL FUEL, OIL, & MAINTENANCE	2,500.00
DIRECT DRILLING COSTS	
incl. drill bits, repairs & drill steel	
721 feet @ $15.54/ft.	11,207.07
HELICOPTER:	
Pemperton 206B, 2 hrs. @ $600/hr	1,200.00
ASSAYING:	
Acme Analytical Labs.	
70 core samples @ $14.62 ea	1,023.50
TOTAL COSTS	$ 76,332.43

6.0 REFERENCES

Cairnes, C.E., 1925; Pemberton area, Lillooet District, British Columbia: Geol. Surv. Can., Summary Report, 1924, Pt. A, p. 76-99.

Camsell, C. 1918; Reconnaissance along the Pacific Great Eastern Railway between Squamish and Lillooet: Geol. Surv. Can., Summary Report, 1917, Pt. B, p. 12-23.

Drysdale, C.W., 1916; Bridge River Map Area, Lillooet Mining Division, B. C.: Geol. Surv. Can. Summary Report, 1915, p. 75-85.

Gonzalez, R.A., 1988; Geologic Report on the Wren Claim Group, Rutherford Creek Area, Lillooet Mining Division, B.C.: Engineer's Report for Castle Resources Inc. 1988 Prospectus, 19 pp.

Gonzalez, R.A., 1988; Assessment Report on the Wren Claim Group, Rutherford Creek Area, Lillooet Mining Division, B.C.: B.C. Dept. of Mines Assessment Rpt., 25 pp.

McCann, W.S., 1922; Geology and mineral deposits of the Dridge River map-area, British Columbia: Geol. Surv. Can., Mem. 130, pp. 115

McGoran, John, 1978; Geological Report-G.L. Mineral Claim-Record No 552-Rutherford Creek Area: B.C. Dept. of Mines, Assessment Rpt., 6976.

McGoran, John, 1979; Geochemical Report-G.L. 1 - G.L. 5 inclusive-Rutherford Creek Area: B.C. Dept. of Mines, Assessment Rpt., 7648.

McGoran, John, 1979; Rainbow Syndicate Report-1978 Field Season: Unpub. Rpt., 16 pp.

Woodsworth, G.J., 1977: Geology Pemberton (92J) map-area, Geol. Surv. Can., Open File 482.

Woodsworth, G.J., Pearson, D.E., and Sinclair, A.J., 1977: Metal distribution patterns across the eastern flank of the Coast Plutonic Complex, south-central British Columbia: Econ. Geol. v. 72, p. 170-183.

7.0 CERTIFICATE

I, R. A. Gonzalez, do hereby certify that:

1. I am a geologist and reside at 2784 Lawson Ave., West Vancouver, British Columbia.

2. I am a graduate of The University of New Mexico, U.S.A.; with a B.Sc. in geology (1965) and an M.Sc. in geology (1968).

3. I have practiced my profession since 1965 in Canada and abroad as indicated on the following page.

4. I am a Fellow in the Geological Association of Canada, Registration Number 4523.

5. I am a registered member of the Association of Professional Engineers of the Province of Manitoba, Registration Number 3970.

6. I have based this report on a personal examination of the property and on information obtained from the Geological Survey of Canada and engineering reports and other support documents provided by **CASTLE MINERALS INC.**

7. I have no interest, nor do I expect to receive any interest, either directly or indirectly in the securities or properties of **CASTLE MINERALS INC.**

8. I have no past or present, direct or indirect interest in any of the listed Mineral Claims or in any other property within the Lillooet Mining District.

9. This report may be used by **CASTLE RESOURCES LTD.** or their agents for a Statement of Material Facts or Shareholders' newsletter, etc. either in whole or in part.

Dated at Vancouver, British Columbia, this 27th day of DECEMBER 1989:

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

8.0 STATEMENT OF PROFESSIONAL QUALIFICATIONS

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

ACADEMIC

1965	B.Sc. in Geology	The University of New Mexico, U.S.A.
1968	M.Sc. in Geology	The University of New Mexico, U.S.A.

PROFESSIONAL

1985	Adder Exploration & Dev. Ltd.	President
1983	Archean Engineering Limited	Overseas Manager
1980-1983	Placer Development y Cia. Ltd. (Chile)	Ass't Exploration Manager
1977-1980	Consultant attached to the Geological Survey of Malaysia	Ass't Project Manager on a C.I.D.A. supported mineral exploration survey over Peninsular Malaysia
1977	Registered with the Association of Professional Engineers of the Province of Manitoba	
1975-1977	Province of Manitoba	Resident Geologist for the Manitoba Dept. of Mines.
1971-1975	Giant Mascot Mines Limited	Senior Geologist
1970-1971	New Jersey Zinc (Canada) Ltd.	Exploration Geologist
1968-1970	Anaconda American Brass Ltd.	Research Geologist
1965-1966	Mex-Tex Mining Co. (U.S.A)	Geologist

9.0 APPENDIX A - DIAMOND DRILL LOGS

PROPERTY CASTLE MINERALS INC.
WREN CLAIMS

DIAMOND DRILL RECORD

HOLE NO 89-1 PAGE 1 OF 2

LATITUDE	DIPS - collar -70°	AZIMUTH 228°	STARTED
DEPARTURE	- °	CORE SIZE AQ	COMPLETED
ELEVATION	- °	CONTRACTOR	LENGTH 32.6 (107 feet)
SHEET NO.	- °	CLAIM N.E. corner of WREN CLAIM	LOGGED BY Ralph Gonzalez
TARGET Anomalous AU in soil samples			DATE

SECTION [ft] FROM	TO	ROCK DESCRIPTION	MINERALIZATION SUMMARY	ASSAYS SAMPLE NUMBER	INTERVAL	WIDTH	AU [oz/t]
0	20	Casing no core					
				801	20-30		
20	27	Light greyish-green, medium-grained andesite. Core highly broken with few	-2% pyrite along joint	802	30-40		
		fragments larger than 1cm. Some sections contain euhedral plagioclase 15%	surfaces	803	40-50		
		of total ground mass with crystals approximately 1mm long. -2% pyrite	-0.5% diss magnetite	804	50-57		
		mostly along fracture (joints?) surfaces	at 27'. Minor diss	805	72-77		
		Minor -0.5% magnetite at 27' 21'-27' 1 foot of core recovered	FeOx (siderite?)	806	77-87		
		27'-30' 1.5 feet of core recovered	throughout	807	87-92		
		Fault at 19.5-20' 30'-32' 1 foot of core recovered					
		32'-37' 0.5 feet of core recovered					
		37'-47' 0.1 feet of core recovered					
		47'-49' 1 foot of core recovered					
		49'-52' 2.5 feet of core recovered					
		52'-72' 0 feet of core recovered					
		72'-75' 2 feet of core recovered					
		75'-77' 0.6 feet of core recovered					
		77'-80' 2.3 feet of core recovered					
		80'-82' 1.2 feet of core recovered					
		82'-92' 1.5 feet of core recovered					
		92'-97' 0 feet of core recovered					
		97'-107' 0 feet of core recovered					

Diamond Drill Record

HOLE NO. 89-1 | Page 2 of 2

Section from m/ft	Section to m/ft	ROCK DESCRIPTION	Interval from m/ft	Interval to m/ft	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
27	30	Fault zone-abundant clay gouge.	27	30	3-5% discontinous veinlets of			
		Light grey 50% clay			pyrite.Veinlets -0.5mm wide			
30	79	Light greyish-green lithic	30	79	Intensely altered to a mixture			-1% diss. euhedral pyrite
		andesite tuff with rounded			of light grey mica(?) (probably			
		fragments upto 4mm long			a mylonite) with minor calcite			
					along fractures			
		37-47 Fault zone with no core						
		recovered						
		47-49 Core ground to pea sized	72	75	Core fractured at 75°t.c.a. and			5% diss. pyrite
		fragments			25°t.c.a..Also most intense			
		52-72 Fault zone with no core			zone of mylonization			
		recovered						
79	83	Massive light greenish-grey						1-2% pyrite crystals
		andesite						+20% euhedral plagioclase
		81-83 Highly broken core						crystals upto 1mm long. No
83	92	Core recovery is -15% fragments						apparent sulphides
		are plate like 1-4mm thick with						
		fractures possibly at 45°t.c.a.						
		fragments seldom with surface						
		area +1cm. Medium grained,greenish						
		lithic andesitic tuff. fragments						
		average 3-4mm in diametre and are						
		usually rounded although some						
		appear strained and angular						
92	107	No core						

LOCATION:	Diamond Drill Record		HOLE NO. 89-2	Page 1 of 3
AZIMUTH: 260°	DIPS - collar -60 °	CONTRACTOR:	PROPERTY:	
ELEVATION:	- m °	LOGGED BY: Ralph Gonzalez	CLAIM NO.	
LENGTH: 197 feet	- m °	DATE:	SECTION NO.	
CORE SIZE: AQ	- m °		STARTED:	
PURPOSE: High Au geochemical respose in rock and soil			COMPLETED:	

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	3	Casing - no core						
3	27	Light greyish-green andesite:	3	18	Fractured @ 50°t.c.a. with epidote	1-3mm	50°	Quartz veinlets with pyrite parallel
		porphyritic texture with plag.			alteration and discontinuous			to veinlet and extending into wall
		crystals upto 0-5cm in length.			quartz veins perpendicular to			rock ±0.5cm Pyrite crystals anhedral
		Weak to moderately magnetic.			fracture. Alteration zone range			to subhedral and 1-2mm across
		Locally pink quartz? amygdules			to 1.5cm.Fracture dinsity 20-25/m			
		upto 2mm			from 7.5ft to 18ft intense epidote	6cm		@ 14' Quartz vein - no sulphides!
					alteration.20% of core in 1cm veins	14cm		@ 14' FeOx altered core
					and -0.5mm veinlets. Approx. 1%			
					pyrite with an increase to 2-3%			
					in more altered sections			
			18	27	Same as above except reduced -5%	1-3mm		Quartz,plag,epidote veins with
					epidote alteration			-1% pyrite.Only trace amounts of
			26	26.5	10cm FeOx and muscovite altered			pyrite in the andesite
					core			
27	31.5	Light greyish-green,massive,				0.5	50°	75% pyrite as euhedral to subhedral
		silicified andesite						disseminate crystals and as anhedral
								grains adjacent to quartz veinlets

Diamond Drill Record

HOLE NO. 89-2 | Page 2 of 3

Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			27	31.5	The lower contact is fractured and altered to quartz,plag.micas and uralitized hornblende FeOx increases toward to lower contact and pyrite decreases over the last foot			
31.5		Lower contact 30°t.c.a. fractured			Traces -0.5% chalcopyrite with			
31.5	141	Coarse grained greyish pink monzonite. Hornblende (mafics) are altered to chlorite			FeOx along the rim. Crystals are usually euhedral			
		41.5-43.5 Andisite with 5-8% pyrite similar to above			All of the core shows moderate-to weak propylitic alteration with local phyllic alteration			
		Monzonite fractured 30°t.c.a. averaging 5-7/m Most of the core is weak to very weakly magnetic	57	57	4cm of quartz vein contact 85°t.c.a. Mafics altered to chlorite and a yellowish epidote (?)			
			84	89	Colour change increase in pink (FeOx increase) and intense alteration of the mafics to micas (sericite)			Sulphides weathered to FeOx
			98	98	4cm quartz vein 40°t.c.a.			
			109	109	3cm quartz vein			
			106	106	2cm quartz vein 90°t.c.a.			
			111	112	Sericite alteration			
			120		3cm quartz vein			
			137		3cm qiartz vein pyrite			
			127	128	Bleached core with slight increase of chalcopyrite			

Diamond Drill Record

HOLE NO. 89-2 | Page 3 of 3

Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			135	137	Bleached core with muscovite			
141	197	Coarse grained monzonite grey to pink in colour,non-magnetic to very weakly magnetic. The grey coloured sections reflect and increase in sericite alteration. Generally,however,the core is weakly propylifically altered with mafics + epidote. The sericite development may in part be due to quartz veins			Chalcopyrite 0.5% with FeOx rims FeOx rims increase in the more altered sections. 141-148,157-172,176-180			
			143	144	28cm quartz vein 85°t.c.a.			
		141-145 Sericite altered monzonite with 1ft quartz vein @ 143-144	172	172	Poor core recovery (50%) between 162-172 feet 3cm quartz part of			
		157-172 FeOx abundant and fractures @ 20/m with fractures @ 75°t.c.a.						

LOCATION:	Diamond Drill Record		HOLE NO. 89-3 | Page 1 of 2
AZIMUTH: 255°	DIPS - collar -60 °	CONTRACTOR:	PROPERTY:
ELEVATION:	- m °	LOGGED BY: Ralph Gonzalez	CLAIM NO.
LENGTH: 201 feet	- m °	DATE: June 30,1989	SECTION NO.
CORE SIZE: AQ	- m °		STARTED:
PURPOSE:			COMPLETED:

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	10	Casing, no core recovered						
10	31	Mixture of light green,fine grained			-0.1 pyrite and local pyrrhotite,odd			
		andesite;greyish,porphyritic andesite;			grain of chalcopyrite.Most of the			
		and pink to brownish,coarse grained			andesitic is weakly to moderately			
		monzonite			magnetic-monzonite is non-magnetic			
		11ft and again at 12ft 5-6cm core of						
		monzonite						
		14.5-16ft Monzonite						
		16-26 Shear zone 10% core						
		26-27 Porphyry andesite						
		27-30 Shear zone with 30% recovery						
31	72	Grey,moderately grained (lapilli?) tuff.			Sulphides are 1% pyrrhotite after pyrite			30° and 0° wispy veinlets and fracture
		with inclusion upto 4mm across			and very minor chalcopyrite,pyrrhotite form			filling veinlets @30°t.c.a.,epidote and
		The bottom 1ft is more silicified and			casts and along veinlets where they are			quartz are the principal material with
		contains 5-10% muscovite. At the contact with			highly altered to FeOx			minor pyrrhotite
		the underlying unit is 7cm quartz vein			Some fragments(?) upto 3cm are			
72	201	Coarse grained,pink to grey monzonite			incorporated in the tuff and are altered			
		fractures @ 70° with dendity of 20/m			entirely to epidote			
					Mafics are altered to chlorite and epidote			Traces -0.1% of chalcopyrite
					Pervasive micas are common in the grey sections			

Diamond Drill Record

HOLE NO. MRO 89-3 | Page 2 of 2

Section from	Section to	ROCK DESCRIPTION	Interval from	Interval to	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			116	116	3cm quartz vein-increased mica for 4cm on either side of quartz vein			
			127	127	7cm quartz vein-contact 90°t.c.a.			
			128	135	Sericite alteration. The core is grey in color and FeOx alteration. Commonly extends 2-3cm on either side of fractures Fractures average 10/m 45-60°t.c.a. 0.1% chalcopyrite with 0.5% chalcopyrite in FeOx zones			
			142	152	Sericite alteration-the core is grey in color with 8 fractures per metre. Fractures 40°t.c.a. several of which have 1-2mm thick epidote veinlets along the face			

LOCATION:	Diamond Drill Record		HOLE NO. 89-4	Page 1 of 2
AZIMUTH: 155°	DIPS – collar -47 °	CONTRACTOR:	PROPERTY:	
ELEVATION:	– m °	LOGGED BY: R. Gonzalez	CLAIM NO. WREN 1	
LENGTH: 142'	– m °	DATE: July 15,1989	SECTION NO.	
CORE SIZE: AQ	– m °		STARTED:	
PURPOSE: High Au geochemistry in soils			COMPLETED:	

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	14	Casing-No core						
14	35.2	Dark grey argillite:core recovery						
		40%,most of the core is fractures						
		and the core is badly ground. 1-2mm						
		wide carbonate veins averaging						
		1 per meter						
35.2	57	Andesite agglomerate:dark grey in						
		colour with elongate,well rounded						
		fragments upto 50mm in length and						
		slightly lighter in colour,core						
		is vuggy and fractured at 10-15°						
		and 15/metre. Vuggy are filled						
		with FeOx and MnOx						
57	92	Olive green to grey pyroclastic	57	58	Olive green colour with abundant			
		andesite with fragments 3-5mm	60	70	FeOx (+5% of surface) also			
		highly fractured 30/metre	74	76	the core is highly altered to			
			83	85	clay esp. at 74-76'			

Diamond Drill Record

HOLE NO. 89-4 | Page 2 of 2

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from	to	DESCRIPTION	from	to	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
92	142	Light greenish-grey andesite with -2% plagioclase crystals upto 4mm long. Core is massive with fractures at 35° to core and	115	117	Vuggy core with MnOx filling the cavities			
EOH		9/metre	121	142		1-2	0,10 upto 30°	Stringers of quartz,carbonate and epidote
		None of the core was magnetic	137	142	The only sulphides seen: 1-3% pyrite euhedral crystals 1-2mm across. The most abundant amount is at the top 137' decreasing downward			

LOCATION:	Diamond Drill Record		HOLE NO. 89-5 Page 1 of 2
AZIMUTH: 260°	DIPS - collar 45 °	CONTRACTOR:	PROPERTY: WREN GROUP
ELEVATION:	- m °	LOGGED BY: R. Gonzalez	CLAIM NO. WREN 1
LENGTH: 74'	- m °	DATE: July 15,1989	SECTION NO.
CORE SIZE: AQ	- m °		STARTED:
PURPOSE: Shear zone with Au and sulphides			COMPLETED:

Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
0	4	Casing no core						
4	10	Weathered light grey andesite,						
		stained rusty brown						
10	24	Light grey,f/g andesite,+20%	10	24	+5% very fine grained sulphides			
		plagioclase crystals,2-4mm long			(pyrite?)			
		60% core recovery						
24	43	Lithic tuff composed of light	20	35	Pyrite is less than 1% and			
		olive green,f/g groundmass and			usually poorly formed euhedral			
		dark grey to black,10-15% f/g			crystals			
		fragments upto 6mm long. Pyrite	41	43	Vuggy quartz vein parallel to			
		generally confined to the mafic			core with FeOx staining			
		fragments. The core becomes						
		"greener" with depth and lithic						
		fragments more rounded and often						
		with a core of quartz						

Diamond Drill Record

HOLE NO.	Page 2 of 2

Section		ROCK	Interval		ALTERATION.	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
43	7[illegible]	Light grey,f/g massive andesite slightly metamorphosed with plagioclase and sulphides parallel to schistosity 51-60 Lithic tuff with no visible sulphides 68-70 Light green tuff with local clots and stringers of chlorite Some of the more greenish material is very talc like to the touch 70-75 core lost			Pyrite occurs as stringers and and clusters parallel to the schistosity 30-40° to core Pyrite locally may be as high as 5% but usually averages about 1-2% Disseminated and clusters of pyrite parallel to schistosity			Discontinous quartz and quartz carbonate veinlets 1-3mm across the schistosity 70 ° to core 5 veinlets/meter

10.0 APPENDIX B - ASSAY RESULTS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .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 SR 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: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 7 1989 DATE REPORT MAILED: June 12/89 SIGNED BY. C. Leong ..D.TOYE. C.LEONG. J.WANG: CERTIFIED B.C. ASSAYERS

CASTLE MINERALS INC. PROJECT WREN CLAIMS File # 89-1369

89-1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
801 20-30'	2	211	16	201	.3	8	12	825	4.19	2	5	ND	2	23	1	2	2	41	.21	.074	4	10	2.55	135	.01	2	3.50	.03	.10	1	45
802 30-40'	1	169	12	215	.2	15	17	958	4.91	2	5	ND	1	26	1	2	2	59	.45	.074	5	21	3.22	205	.03	2	4.55	.03	.09	1	34
803 40-50'	1	193	10	188	.3	2	8	225	2.99	7	5	ND	1	12	1	2	2	21	.16	.073	2	1	.99	71	.01	2	1.75	.04	.23	1	54
804 50-57'	2	173	10	100	.1	6	8	307	3.44	4	5	ND	1	14	1	2	2	33	.11	.066	2	5	1.21	86	.01	2	2.31	.05	.31	1	48
805 72-77'	3	214	10	100	.2	3	12	645	3.63	6	5	ND	2	19	1	2	2	20	.20	.091	4	1	1.59	88	.01	2	2.34	.04	.17	1	43
806 77-87'	1	121	30	102	.4	27	24	1143	3.58	8	5	ND	1	67	1	3	2	59	2.15	.064	4	57	3.47	79	.12	2	4.01	.01	.04	1	14
807 87-92'	1	151	12	169	.2	5	9	983	3.97	6	5	ND	2	36	1	3	2	34	.22	.090	10	3	2.48	118	.01	2	3.78	.06	.19	1	19
STD C/AU-R	18	63	41	132	6.6	73	31	1022	3.83	42	22	7	37	51	19	15	18	59	.47	.090	38	56	.88	173	.07	35	1.83	.06	.13	13	490

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .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 SR 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: CUTTING AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: MAY 29 1989 DATE REPORT MAILED: June 1/89 SIGNED BY. C. Leong ..D.TOYE. C.LEONG. J.WANG: CERTIFIED B.C. ASSAYERS

CASTLE MINERAL INC. File # 89-1242

returning sludge from fault zones.

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-1 70'	9	771	22	170	1.3	50	34	592	8.05	2	5	ND	1	56	1	3	2	30	.29	.085	3	20	1.18	7	.01	12	1.91	.05	.16	488	102
89-1 90'	11	625	13	194	.2	63	27	614	6.48	6	5	ND	1	36	1	4	2	24	.22	.075	2	14	1.01	15	.01	2	1.66	.04	.15	722	140

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .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 SR 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: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 29 1989 DATE REPORT MAILED: July 3/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERALS LTD. File # 89-1855

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	AU* PPB
89-2 3-12	1	101	16	137	.1	7	11	1055	3.60	2	5	ND	1	52	1	2	3	92	.65	.062	3	10	1.07	254	.17	11	2.02	.05	.64	1	18
89-2 12-20	3	87	17	169	.1	6	13	1156	2.96	4	5	ND	1	41	1	2	2	49	.49	.058	4	20	1.06	68	.07	13	1.67	.02	.12	1	5
89-2 20-27	3	41	11	140	.1	8	13	1182	2.71	2	5	ND	1	49	1	2	2	48	.61	.063	4	9	.93	74	.06	5	1.62	.02	.13	1	5
89-2 27-31.5	1	72	16	149	.1	8	14	1583	4.67	2	5	ND	1	11	1	2	2	58	.49	.052	5	12	1.38	35	.01	3	2.26	.01	.13	1	2
89-2 31.5-42	4	64	12	101	.2	6	9	853	2.53	2	5	ND	1	21	1	2	3	31	.20	.028	5	8	.76	91	.02	7	1.40	.02	.12	1	3
89-2 42-52	1	74	10	80	.1	5	6	728	2.32	2	5	ND	1	31	1	2	2	30	.55	.041	7	20	.58	132	.03	12	1.18	.02	.13	1	6
89-2 52-62	2	35	11	40	.1	5	3	451	.90	6	5	ND	1	29	1	2	2	5	.45	.027	7	5	.18	116	.01	4	.58	.02	.13	3	4
89-2 62-72	2	37	10	40	.2	4	3	389	.88	5	5	ND	1	33	1	2	2	6	.53	.036	6	6	.21	137	.01	4	.62	.02	.11	3	12
89-2 72-82	2	42	6	36	.2	4	3	349	.81	2	5	ND	1	35	1	2	2	4	.72	.034	6	5	.13	203	.01	3	.49	.02	.12	1	8
89-2 82-92	2	41	11	40	.1	4	3	380	.91	7	5	ND	2	27	1	2	2	5	.44	.035	8	18	.15	119	.01	6	.55	.02	.12	3	139
89-2 92-102	3	37	11	41	.4	5	3	417	.99	5	5	ND	2	29	1	3	2	4	.40	.032	9	5	.13	168	.01	9	.54	.02	.12	3	10
89-2 102-112	3	62	10	36	.3	6	3	394	.91	5	5	ND	2	36	1	2	2	4	.40	.032	7	7	.14	178	.01	9	.57	.02	.14	3	16
89-2 112-122	6	30	7	42	.3	6	3	528	.97	3	5	ND	2	19	1	2	2	3	.36	.036	9	7	.11	98	.01	10	.49	.02	.14	3	4
89-2 122-132	1	73	8	30	.1	3	2	491	.83	2	5	ND	1	55	1	3	2	3	1.31	.034	7	22	.10	104	.01	7	.44	.02	.14	1	13
89-2 132-142	2	77	7	40	.3	4	3	444	.80	3	5	ND	2	42	1	2	2	3	.90	.045	7	5	.15	87	.01	7	.51	.02	.12	1	5
STD C/AU-R	18	60	43	132	6.9	71	31	1015	4.09	41	22	7	37	50	19	15	21	60	.49	.093	39	55	.84	183	.07	38	1.96	.06	.13	12	490

alteration ?) zone

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .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 SR 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: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 4 1989 DATE REPORT MAILED: July 7/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERAL INC File # 89-1899

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-2 142-152	4	36	7	35	.1	6	2	348	.66	2	8	ND	1	25	1	3	4	3	.26	.033	6	7	.11	84	.01	4	.44	.02	.12	3	6
89-2 152-162	3	26	11	38	.1	4	3	421	.89	4	7	ND	2	28	1	2	2	5	.22	.031	7	22	.12	106	.01	5	.64	.02	.14	4	2
89-2 162-172	5	49	12	46	.3	6	3	528	.98	28	5	ND	3	20	1	3	2	5	.51	.033	10	6	.09	112	.01	12	.57	.02	.14	3	5
89-2 172-182	4	31	13	48	.2	7	2	406	.84	7	5	ND	1	33	1	3	2	5	.42	.036	8	8	.15	102	.01	5	.67	.03	.16	1	2
89-2 182-187	2	23	10	40	.1	6	3	359	.70	2	5	ND	1	42	1	2	3	4	.80	.035	8	6	.15	90	.01	5	.57	.03	.13	1	2
89-3 10-16	1	42	12	70	.1	6	8	710	2.27	2	5	ND	1	52	1	2	4	42	1.07	.053	7	28	.70	92	.06	8	1.33	.05	.19	1	2
89-3 16-27	1	86	16	105	.2	5	8	1117	2.67	2	5	ND	1	51	1	2	3	64	.62	.053	6	9	.90	288	.17	11	1.98	.09	.91	1	1
89-3 27-33	2	60	22	99	.1	7	8	945	2.11	2	5	ND	1	34	1	2	2	38	.65	.054	6	11	.81	105	.09	2	1.57	.05	.35	1	7
89-3 33-43	1	47	24	150	.1	8	10	1257	2.75	2	5	ND	1	33	1	2	2	47	.73	.058	6	11	1.19	92	.09	4	1.87	.04	.32	1	3
89-3 43-53	1	56	12	77	.4	5	9	864	2.71	2	7	ND	2	89	1	2	2	70	1.00	.061	6	22	.90	366	.16	8	1.99	.11	.59	1	2
89-3 53-63	2	53	20	108	.2	6	10	833	2.56	2	5	ND	1	55	1	2	3	62	.82	.070	5	11	.99	211	.14	5	1.74	.07	.41	1	3
89-3 63-73	2	47	72	133	.1	5	6	638	1.97	2	5	ND	1	38	1	2	2	29	.61	.043	6	7	.54	198	.08	2	1.02	.04	.27	1	9
89-3 73-83	2	12	8	45	.1	3	3	463	.91	2	5	ND	2	36	1	2	2	6	.36	.032	7	6	.23	80	.01	9	.78	.03	.13	2	2
89-3 83-93	2	13	5	39	.1	4	3	456	.85	3	5	ND	2	34	1	2	2	5	.59	.032	8	6	.19	82	.01	12	.73	.03	.14	1	1
89-3 93-103	2	17	8	33	.2	3	3	292	.69	2	5	ND	2	50	1	2	2	4	.31	.035	5	5	.14	156	.02	14	.61	.04	.15	3	2
89-3 103-113	3	22	7	41	.1	5	3	400	.82	2	5	ND	1	44	1	2	2	4	.39	.031	5	6	.17	140	.02	2	.63	.04	.15	1	3
89-3 113-123	3	47	7	42	.1	5	2	453	.93	2	5	ND	1	32	1	2	3	4	.45	.035	8	10	.16	147	.01	10	.64	.04	.15	2	46
89-3 123-133	4	74	6	38	.1	5	2	554	.94	3	5	ND	1	37	1	2	2	4	.80	.036	9	6	.13	98	.01	20	.53	.03	.15	1	41
89-3 133-143	1	68	6	34	.1	2	3	354	.73	4	5	ND	1	47	1	2	2	4	.92	.039	8	4	.15	222	.01	2	.52	.02	.11	1	10
89-3 143-153	2	66	6	33	.1	5	3	317	.74	2	5	ND	1	55	1	2	2	4	.92	.036	8	7	.14	253	.01	7	.57	.03	.13	1	2
89-3 153-160	1	81	6	40	.4	3	3	359	.75	2	5	ND	3	41	1	2	2	4	.53	.041	7	5	.17	82	.01	11	.60	.03	.13	1	7
STD C/AU-R	18	59	44	132	7.2	69	31	1020	4.04	42	19	7	37	50	18	15	24	60	.47	.091	39	55	.82	182	.07	35	1.93	.06	.14	11	520

gtz veins with some wall rock alteration adjacent to gtz veins

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .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 SR 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 CORE P2 SLUDGE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 18 1989 DATE REPORT MAILED: July 25/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERALS INC. File # 89-2237 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-2 192	13	13	12	5	.3	28	1	108	1.19	21	5	ND	1	1	1	4	2	1	.01	.004	2	33	.01	13	.01	2	.02	.01	.03	9	11
89-4 14-24	2	36	14	104	.1	5	8	859	7.13	11	5	ND	3	20	1	2	2	28	.34	.150	6	3	.74	27	.03	3	3.22	.02	.16	1	185
89-4 24-34	1	60	18	141	.2	9	13	1135	6.85	9	5	ND	2	18	1	4	2	52	.26	.083	4	6	1.41	33	.03	5	3.87	.01	.10	1	600
89-4 34-44	1	63	37	211	.1	10	16	2226	6.84	8	5	ND	2	32	1	4	2	100	.46	.116	3	8	2.08	27	.07	4	4.82	.05	.09	1	6
89-4 44-54	1	102	34	213	.3	10	23	2290	7.08	12	5	ND	1	15	2	6	2	86	.33	.088	2	7	2.21	29	.08	2	4.62	.02	.09	1	18
89-4 54-64	1	56	41	171	.1	9	17	2044	5.34	11	5	ND	1	16	1	2	2	65	.37	.093	3	5	1.94	42	.09	2	3.74	.03	.14	1	4
89-4 64-74	1	86	14	123	.1	7	14	1544	5.22	3	5	ND	2	17	1	4	2	43	.90	.070	4	4	1.53	40	.05	2	3.24	.02	.16	1	1
89-4 74-84	1	50	11	117	.3	9	14	1427	4.66	15	5	ND	2	10	1	5	2	36	.33	.078	3	4	1.61	34	.06	2	3.03	.02	.15	1	3
89-4 84-94	1	113	11	144	.3	8	16	1690	5.28	8	5	ND	1	15	1	2	2	48	1.33	.076	3	4	1.59	37	.06	2	3.35	.02	.17	1	3
89-4 94-104	1	70	11	137	.1	7	16	1646	5.51	8	5	ND	1	11	1	2	2	41	1.33	.072	2	3	1.39	30	.06	2	3.07	.02	.14	1	2
89-4 104-114	1	49	8	142	.2	7	21	1406	5.26	4	5	ND	1	9	1	2	2	32	.57	.078	2	3	1.47	32	.05	2	2.95	.01	.17	1	4
89-4 114-124	1	28	10	125	.2	6	12	1084	3.02	5	5	ND	1	37	1	4	2	30	1.26	.074	2	2	1.75	30	.09	2	2.31	.03	.10	1	2
89-4 124-134	1	24	6	111	.1	4	12	1070	3.08	2	5	ND	1	37	1	2	2	29	1.72	.073	2	2	1.67	44	.10	2	2.25	.03	.12	2	1
89-4 134-144	1	23	6	119	.1	5	11	1113	2.92	6	5	ND	1	35	1	2	2	25	1.22	.073	2	2	1.56	57	.07	2	2.07	.02	.11	1	3
STD C/AU-R	18	58	38	132	6.8	69	31	1024	3.95	42	20	7	36	48	19	14	22	61	.47	.097	38	53	.93	172	.07	35	1.98	.06	.13	11	490

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
DDH#4 15-20 A	3	94	12	135	.1	9	13	812	6.93	20	5	ND	4	34	1	2	2	24	.37	.114	10	4	.60	84	.03	2	2.94	.01	.13	5	11
DDH#4 20-25 A	3	96	11	94	.1	8	9	668	7.26	16	5	ND	4	27	1	2	2	21	.35	.136	10	5	.51	62	.02	2	2.38	.02	.15	7	8
DDH#4 15-20 B	2	89	12	144	.1	9	14	836	7.49	16	5	ND	4	37	2	2	2	24	.42	.117	10	5	.61	97	.03	2	3.19	.02	.13	2	6
DDH#4 20-25 B	4	105	12	99	.1	10	9	690	7.05	11	5	ND	4	33	1	2	2	22	.36	.132	10	6	.47	84	.02	2	2.94	.02	.22	11	3

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .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 SR 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: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 18 1989 DATE REPORT MAILED: July 21/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERALS INC. File # 89-2235

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-5 5-15	1	113	20	62	.5	7	13	929	5.01	10	5	ND	1	15	1	2	2	25	.14	.090	2	3	2.13	44	.10	2	2.19	.03	.10	1	3
89-5 15-25	1	134	38	61	1.7	16	16	1049	4.40	7	5	ND	1	14	1	2	2	40	.18	.075	2	42	2.64	34	.12	2	2.56	.03	.07	1	5
89-5 25-35	1	127	15	80	.3	41	30	1150	4.92	4	5	ND	1	41	1	2	2	117	.90	.088	3	202	4.59	4	.20	2	4.41	.01	.01	1	1
89-5 35-45	1	115	32	60	.8	37	24	650	4.54	8	5	ND	1	34	1	2	2	85	.50	.090	2	147	3.23	19	.10	3	3.00	.01	.06	1	4
89-5 45-55	3	69	20	10	2.4	11	17	57	4.22	17	5	ND	1	16	1	3	2	9	.15	.077	2	8	.15	29	.01	2	.78	.04	.13	1	10
89-5 55-65	1	155	573	306	1.3	41	25	2115	5.35	3	5	ND	1	9	2	2	2	109	.32	.098	2	181	4.76	10	.05	2	4.64	.01	.04	1	1
89-5 65-75	2	201	25	258	.8	9	15	648	4.71	16	5	ND	1	12	1	2	2	29	.15	.088	4	6	1.96	24	.01	3	2.47	.03	.12	1	37
STD C/AU-R	19	62	40	133	7.4	73	31	1038	4.11	42	21	8	39	52	20	16	23	64	.45	.090	42	55	.93	181	.08	38	2.05	.06	.14	13	530