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Blue Gold Resources Ltd.
Vancouver, B.C.
(Operator and Owner)

FILMED

DRILLING REPORT
on the
KEYSTONE PROPERTY
Nicola Mining Division
Coquihalla Pass Area, British Columbia

NTS 92H/11E
49°42'N.Lat.; 121°02'W.Long.

September 15, 1989

19,159

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Robert S. Adamson, P.Eng.

Consultant

Vancouver, Canada

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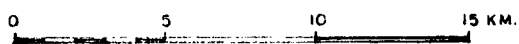
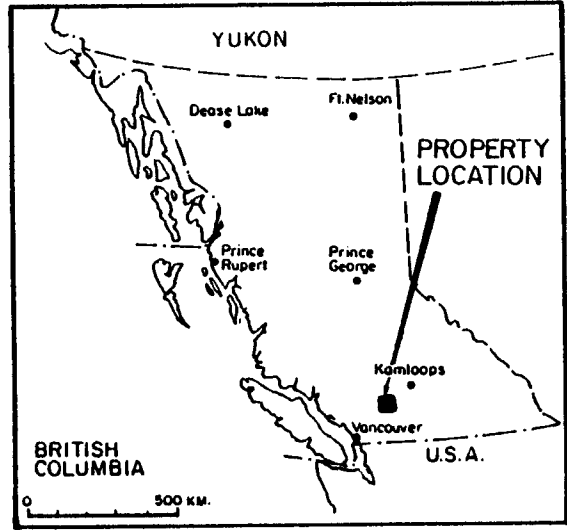
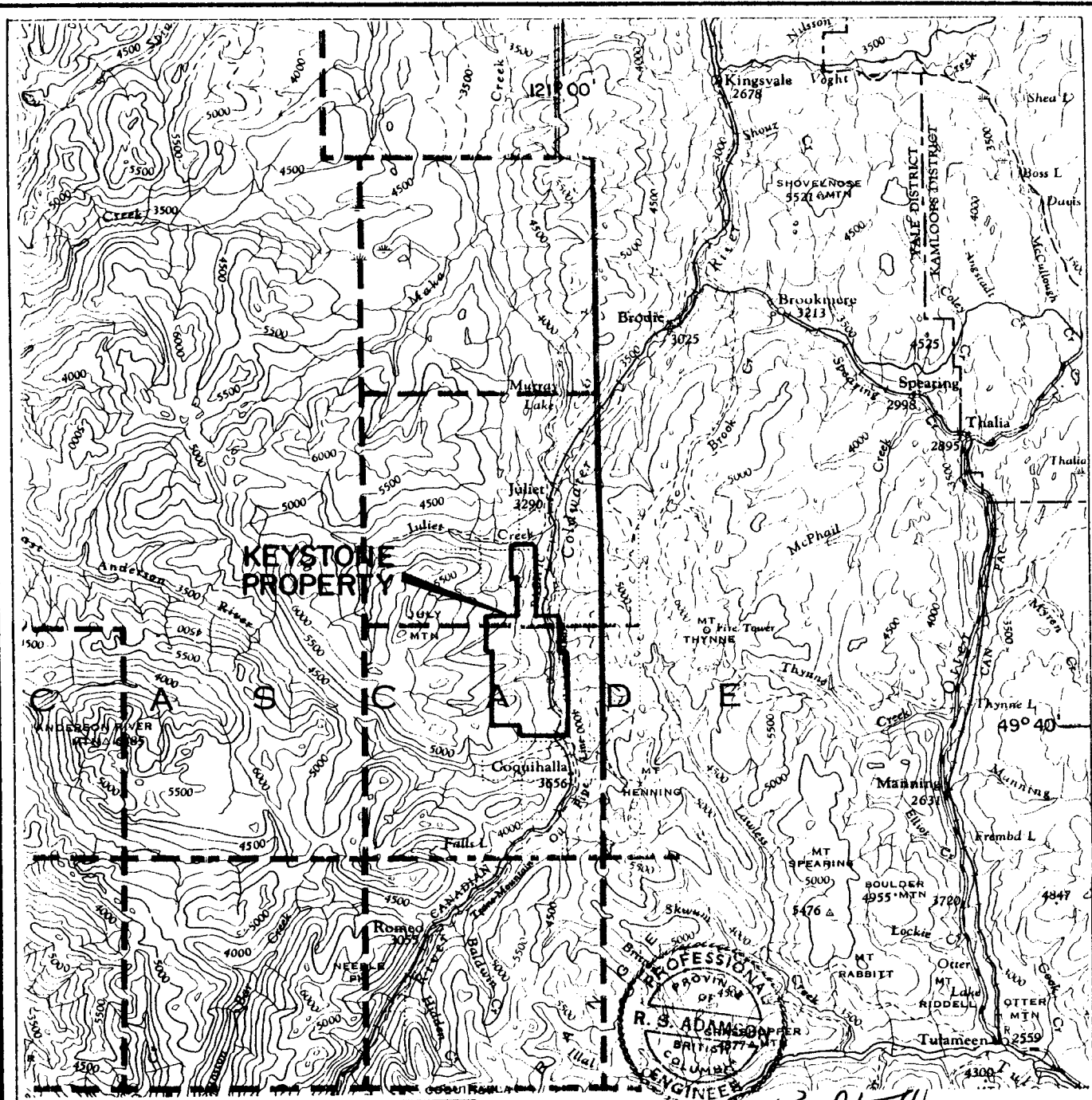
SUMMARY

Four diamond drill holes (404.4 metres) tested two mineralized areas on the 80-unit Keystone property, a gold-silver prospect lying astride the Coquihalla Highway 64 kilometres south of Merritt, B.C. One of these holes was drilled on the Keystone Mine Zone; the other three were drilled on the Julie Zone.

The Keystone Mine Zone consists of narrow, quartz-carbonate veins in a wide, intensely altered, northeasterly striking, steeply dipping shear structure. One of the veins in the shear had previously been drifted underground for 200 metres and explored without success. A second vein, of economic interest and initially discovered in a 1980 drill hole, was further investigated by the single drill hole during the 1989 program. Results were also unsuccessful.

The Julie Zone comprises a relatively small, intensely altered, weakly mineralized rhyolite breccia body intruding brecciated granodiorite. Three drill holes were implemented to explore this apparently pipe-like structure for precious metals and to follow up an economically promising vein zone intersected in a hole drilled in 1981. Continuity neither of gold values nor of veins was evident in the initial two holes. A third hole, reconnaissance in nature, cut subeconomic mineralization (9.14 ounces silver per ton) over 3.0 metres.

No further exploration is warranted on the Keystone Mine Zone, although hand trenching of a geochemical anomaly located southwest of the Keystone Mine is recommended. Three reconnaissance drill holes are proposed to further explore the rhyolite breccia body for bonanza-type gold-silver mineralization.



ORCAN MINERAL ASSOCIATES LTD. CONSULTANTS	
VANCOUVER, CANADA	
BLUE GOLD RESOURCES LTD.	
KEYSTONE PROPERTY	
LOCATION MAP	
COLDWATER RIVER, B.C.	
SCALE: 1:250,000	JULY 1989
	FIG. 1

INTRODUCTION

A diamond drill program was carried out on the Keystone property from June 26 to July 4, 1989. The program consisted of drilling four holes comprising a total of 404.4 metres. One hole (151.2 metres) was drilled on the Keystone Mine Zone; the remaining three (253.2 metres) were drilled on the Julie Zone located 1.5 kilometres south southwest of the Keystone Mine.

The drill contractor was Lone Ranger Diamond Drilling of Lumby, B.C. Mr. T.A. Morrison, P.Eng., supervised the drill program, split and sampled the drill core under the direction of Mr. R.S. Adamson, P.Eng., the project manager. The latter logged the drill core. The project was serviced from Merritt, B.C., located approximately 64 kilometres north of the property.

The drill core (size NQ) is stored in Vancouver at Aeropark, 9260 Oak Street (phone 266-4242). No dip tests were taken.

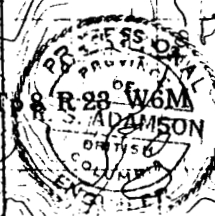
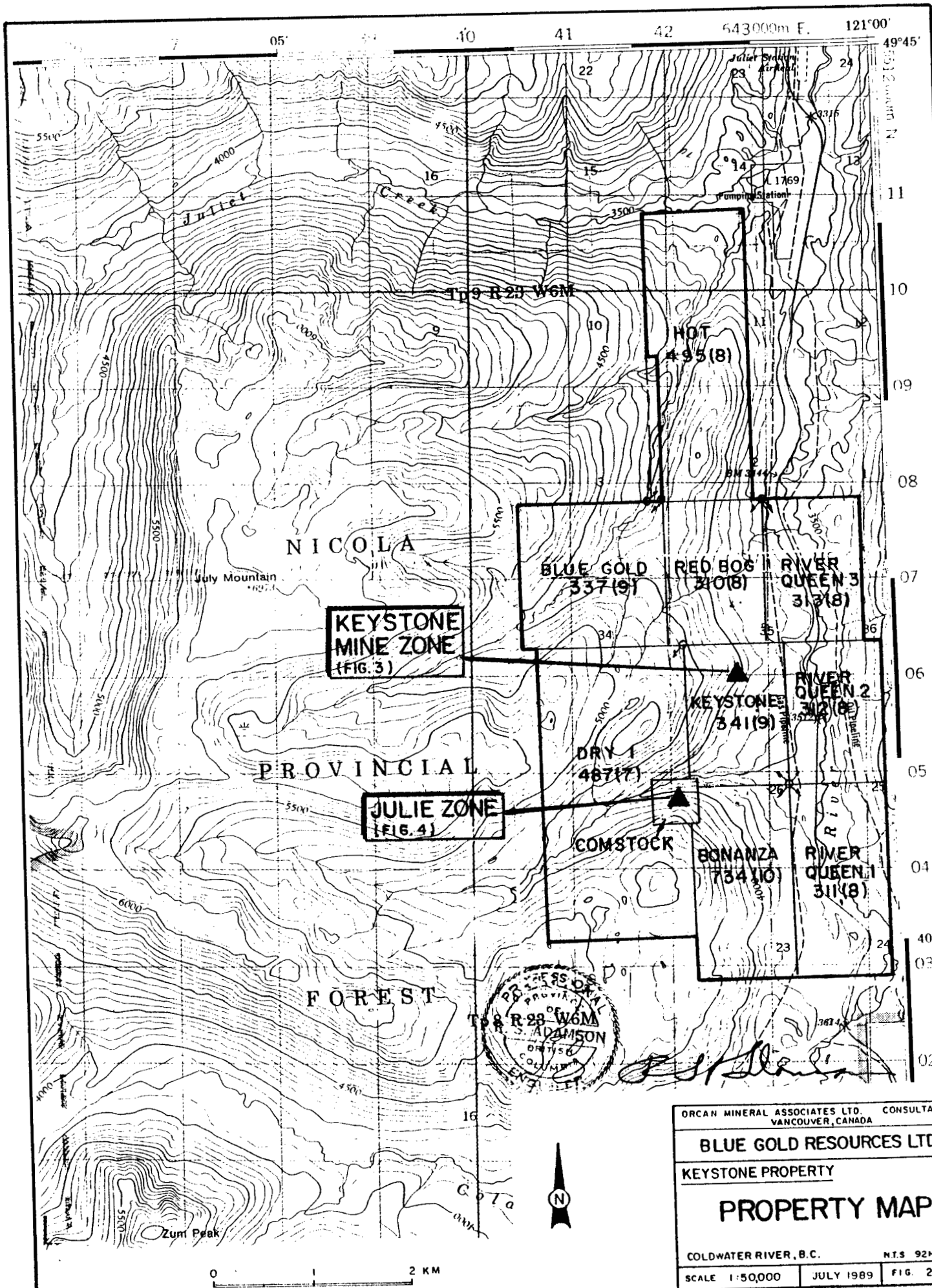
Location and Access (49°42'N. Lat.; 121°02'W. Long.)

The Keystone property is located in the Cascade Mountain Range, 64 kilometres south of Merritt and 53 kilometres north of Hope, B.C. (Figure 1). The Coldwater River flows northward through the eastern part of the property. Oil and gas pipelines flank the river.

Access to the property is by the recently constructed Coquihalla Highway. It traverses the property, essentially parallel to the river. Additional access within the property is provided by forestry roads.

Property

The property comprises ten located mineral claims encompassing 80 units (Figure 2). They are enumerated as follows:



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ORCAN MINERAL ASSOCIATES LTD. CONSULTANTS VANCOUVER, CANADA	
BLUE GOLD RESOURCES LTD.	
KEYSTONE PROPERTY	
PROPERTY MAP	
COLDWATER RIVER, B.C.	N.T.S. 92M-11E
SCALE 1:50,000	JULY 1989 FIG. 2

<u>Claim Name</u>	<u>Units</u>	<u>Record Number</u>	<u>Expiry Date</u>
Red Bog	6	310	August 5, 1994
Hot	12	495	August 9, 1994
Blue Gold	9	337	September 26, 1994
Dry #1	18	487	July 26, 1994
Comstock	1	339	September 26, 1996
Keystone	6	341	September 26, 1994
Bonanza	8	734	October 3, 1994
River Queen #1	8	311	August 5, 1994
River Queen #2	6	312	August 5, 1994
River Queen #3	6	313	August 5, 1994

The west side of the property is for the most part heavily timbered. The corridor on the east side of the property, which contains the river, the highway, and the pipelines, is relatively clear.

Elevations on the property range from 1,060 metres at the Coldwater River on the east to 1,670 metres along the west side of the property. Relief, however, is moderate; along major streams that cross the property, slopes are generally more steep.

History

The discovery of base and precious metal mineralization in the upper Coldwater River area evidently took place in the early 1900's. By 1936, the Keystone mine had been established by driving adits to intersect a narrow, northeast striking, steeply dipping vein locally carrying precious metal values up to 0.6 ounces gold per ton and 22.6 ounces silver per ton. Nothing further was reported until 1954 when renewed development took place. A total of 89 tons was shipped in 1955.

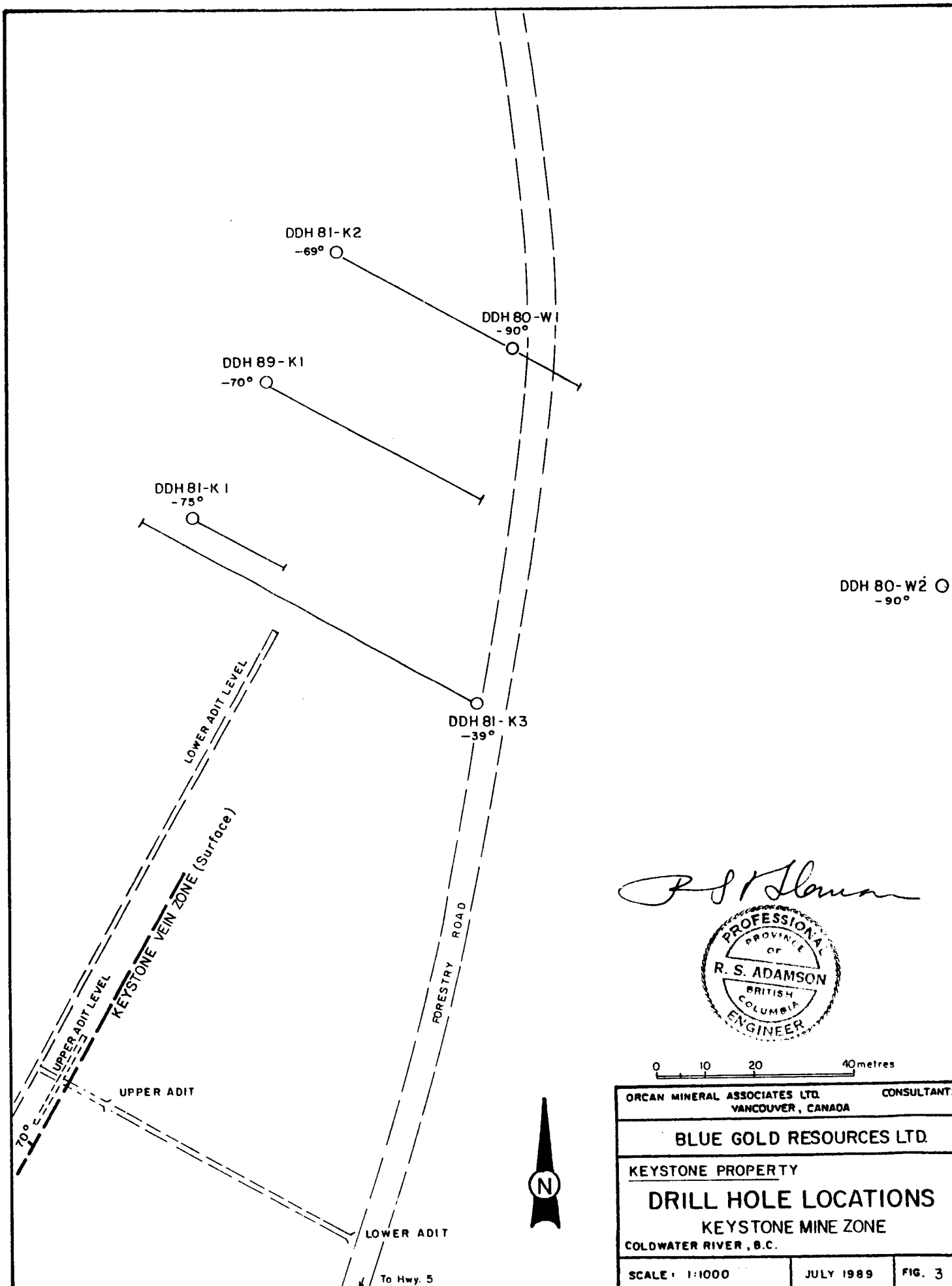
Approximately 950 metres south-southwest of the Keystone mine an adit was developed on the Stonewall vein. It is not known when the adit was driven; however, the vein was sampled in 1939, 1946, 1948, 1953 and 1954 by various individuals.

During the period 1965 to 1966, Dorian Mines carried out an extensive surface exploration program on the Julie Zone, which lies approximately 200 metres south of the Stonewall adit. In all, 32 packsack and Ax core holes (2,030 metres) were drilled to investigate a relatively large zinc soil anomaly.

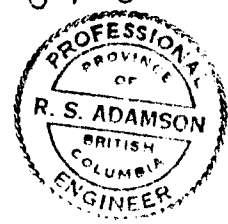
From 1967 to 1973, the property, by then probably much larger, was explored by several major companies (Anaconda, El Paso, Denison, Noranda). Reportedly, these companies were exploring for precious metals; however, it is more likely they focussed on finding porphyry-type copper-molybdenum deposits. Some drilling was undertaken by Noranda in 1969 on an altered, brecciated, and weakly mineralized zone that lies approximately 1,000 metres southeast of the Julie Zone. El Paso cut several bulldozer trenches on a copper zone, situated 1,300 metres northwest of the Keystone mine. Anaconda cut a number of trenches in an area immediately northeast of the mine. In 1973 Denison and Noranda drilled a total of seven widely-spaced core holes (1,051 metres) west of the river and, for the most part, beneath the valley bottom.

Westmin Resources acquired the property in 1977 and, in 1978, formed a joint venture with AMAX, another major mining company, to explore the property for porphyry-type molybdenum deposits. Westmin carried out geological mapping, geochemical soil sampling, and an induced polarization survey over the property. In 1978, the company drilled a single vertical core hole approximately 300 metres southeast of the Keystone mine to a depth of 864 metres. Three deep vertical reconnaissance core holes were drilled in 1979. Two more deep vertical holes were drilled in 1980, in the immediate vicinity of the Keystone mine.

Westmin switched its exploration emphasis on the Keystone property from molybdenum to precious metals in 1981. The company's objectives were now 'to test the potential for a low grade open-pit type of deposit with a minimum of 2 million tons of 0.1 ounces per ton gold equivalent or 20 plus million tons of 2 to 3 ounces silver per ton' on the Julie Zone, and in the vicinity of the Keystone mine 'to test the potential for direct shipping ore from an underground operation'. Westmin then established grids on the two zones, carried out soil and rock geochemical surveys on each grid, and geologically mapped each. Some bulldozer trenching was done on both zones. Five core holes (347 metres) were drilled on the Julie grid; three (317 metres)



R. S. Adamson



0 10 20 40 metres

ORCAN MINERAL ASSOCIATES LTD. CONSULTANTS	
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BLUE GOLD RESOURCES LTD.	
KEYSTONE PROPERTY	
DRILL HOLE LOCATIONS	
KEYSTONE MINE ZONE	
COLDWATER RIVER, B.C.	
SCALE: 1:1000	JULY 1989
	FIG. 3

were drilled on the Keystone grid. As the targets previously established for size and grade potential of precious metal deposits were not met, the program was terminated.

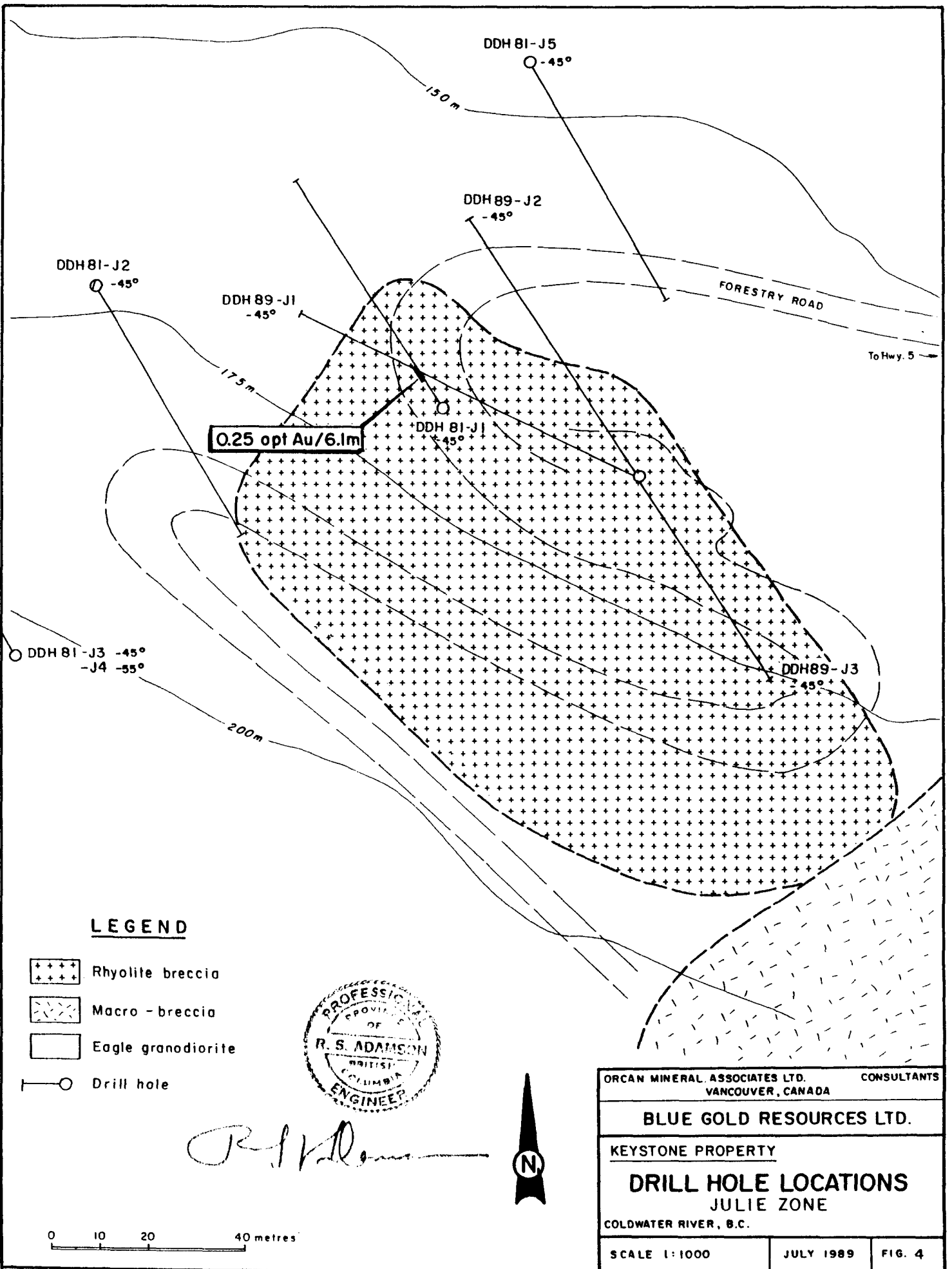
No further work was done until 1986, when Blue Gold Resources acquired the Keystone property. In 1986, a reconnaissance-type grid was established on the property. A baseline, running essentially the full length of the property, was blazed for control purposes. Cross lines were flagged at 200-metre intervals along the baseline. On this grid, a VLF electromagnetic survey, a magnetometer survey, and a rock chip and soil geochemical survey were undertaken. On the Julie Zone, a detailed grid was established and detailed geological mapping undertaken.

In November 1988, Blue Gold established a grid over the area containing the Keystone Mine workings and the Stonewall Adit. A geochemical soil survey was undertaken. The program comprised cutting a 1,500-metre long baseline and collecting 829 soil samples on flagged lines established at 100-metre intervals perpendicular to the baseline.

KEYSTONE MINE ZONE

The Keystone Mine Zone comprises a steeply dipping, north northeasterly-striking belt of sheared and conspicuously altered rock. Apparently in excess of 100 metres in width, the zone has been traced along strike in underground workings, bulldozer trenches, road cuts, and drill holes for approximately 300 metres. Geological mapping and geochemical soil sampling indicate the length of the structure continues for at least 1,500 metres overall.

A number of quartz-carbonate veins occur as narrow strands in the shear structure as narrow strands, some of which are mineralized with rhodochrosite, sphalerite and pyrite with rare galena and chalcopyrite. Anomalous gold and silver values evidently occur locally with the quartz. One of these veins was explored along strike by underground drifting for a distance of 200 metres, and by surface diamond drilling for a further 75 metres. In 1980, a second vein of economic interest was intersected in the system while drilling a deep vertical hole (Figure 3). It assayed



0.678 ounces gold per ton and 1.2 ounces silver per ton over a 3.05-metre intercept. An angle hole (DDH 81-K2) was drilled in 1981 to intersect this vein at approximately the same elevation; but although cutting quartz-carbonate vein material, precious metal values were insignificant.

Drilling Results

During the recent drill program on the Keystone property, a single diamond drill hole (DDH 89-K1) was located 30 metres south southwest of DDH 81-K2. The object of drilling this hole was to further test the indicated high grade vein along strike from the economically promising intersection in DDH 80-W1.

The results were unsuccessful. The Keystone vein structure that was developed in the lower mine workings was evidently intersected in the upper part of the drill hole (from 47.4 to 50.8 metres). Assays for gold and silver were insignificant. No clear vein or mineralized structure was intersected in the lower part of the hole. Sulphide mineralization occurs, erratically distributed, in quartz diorite breccia; but again, no gold or silver values of interest were indicated in these sections.

JULIE ZONE

The Julie Zone consists of a small, hydrothermally altered, brecciated rhyolite porphyry stock that intrudes granodiorite of the Mount Lytton Batholith. Inferred to be a pipe-like structure, the rhyolite body, in plan, is a northwesterly trending ellipsoid (Figure 4). Its long axis is approximately 150 metres in length; its short axis is 80 metres across. In situ brecciation of the granodiorite has taken place for some distance from the rhyolite contact.

Mineralization occurs, usually along thin fractures, within the rhyolite breccia and the brecciated granodiorite. Pyrite and hematite with lesser sphalerite are the most common metallic minerals present. Rhodochrosite and thin quartz seams are frequently associated, whereas galena and chalcopyrite are rare.

Drilling Results

Three diamond drill holes (DDH 89-J1, 89-J2, and 89-J3) were collared from a single site in the rhyolite breccia structure to explore the distribution of precious metal values associated with the above mineralization.

Drill hole 89-J1 was specifically designed to further investigate the extent of the high gold values previously intersected in drill hole 81-J1 (Figure 4). This near surface intercept, which assayed 0.25 ounces gold per ton over 6.1 metres, was reported to occur as a zone of numerous, narrow, specularite-rhodochrosite-quartz veinlets and stringers in altered and brecciated granodiorite. Although the trend is not known, the vein zone evidently lies in close proximity to the rhyolite breccia-granodiorite contact. Drill hole 89-J1 intersected the contact at 52.5 metres, but failed to cut any significant mineralization.

Drill hole 89-J2 was located to investigate the rhyolite breccia-granodiorite contact and also to cut a possible northern projection of the mineralized vein zone in drill hole 81-J1. It also failed to intersect any significant mineralization. The contact was penetrated at 68.3 metres.

Drill hole 89-J3 was spotted, in profile with drill hole 89-J2, to explore the rhyolite breccia internally. A distinctive, vuggy, mineralized zone was intersected from 40.5 to 45.4 metres. From 41.5 to 44.5 metres, the zone assayed 9.14 ounces silver per ton and 0.0037 ounces gold per ton. The granodiorite contact was reached at 62.0 metres.

CONCLUSIONS

The shear zone that extends northeastward from Mine Creek has now been explored quite thoroughly in the vicinity of the old Keystone Mine. The underground workings, several bulldozer trenches and road cuts, and a number of diamond drill holes have, for the most part, failed to discover economically significant vein-type mineralization. The vein zone of interest intersected in drill hole 80-W1 evidently

lacks continuity (Figure 3). No further work is therefore warranted on the Keystone Mine Zone.

A geochemical lead-zinc soil anomaly, centred approximately 400 metres southwest of the lower Keystone Adit, remains to be investigated. It is interpreted to lie within the same shear zone that hosts the Keystone Mine veins (Adamson, Feb. 1989). A similar style of mineralization may, therefore, occur in the rocks underlying the soil anomaly.

On the Julie Zone, drilling has demonstrated that the high grade vein zone intersected in drill hole 81-J1 is not continuous. Nonetheless, sub-economic silver mineralization cut in drill hole 89-J3 indicates the rhyolite breccia body continues to be prospective. However, because this intrusive structure is not large, high grade precious metal deposits of the bonanza type must be identified before envisioning the prospect of economic zones within it. Porous (vuggy) zones in this pipe-like structure, as is evident in drill hole 89-J3, might host deposits of this nature. The discovery of such zones in the breccia body can only be achieved by continued drilling.

Recommendations

No further work should be undertaken in the Keystone Mine area.

The lead-zinc geochemical anomaly, lying southwest of the Keystone Mine, should be investigated by hand trenching. Bulldozer trenching should be implemented only if metallic mineral occurrences of economic interest are discovered as a result of this preliminary prospecting program.

On the Julie Zone, a three-hole diamond drill program (total 450 metres) is proposed to implement a preliminary search within the rhyolite breccia for high grade gold-silver lenses. Holes should be drilled across the rhyolite breccia body from the same site as the 1989 drill program.

The cost of this program is estimated to be \$50,000. Should this program produce successful results, a follow-up drill program costing another \$50,000 is recommended.

Respectfully submitted,
ORCAN MINERAL ASSOCIATES LTD.





Robert S. Adamson, P.Eng.

REFERENCES

1. Adamson, R.S. (March 1, 1987): "Report on the Keystone Property, Coldwater River, B.C."; Orcan Mineral Associates Ltd. for Blue Gold Resources Ltd.
2. Adamson, R.S. (February, 1989): "Assessment Report on a Geochemical Soil Survey on the Keystone Property, Nicola Mining Division, Coldwater River, B.C."; Orcan Mineral Associates Ltd. for Blue Gold Resources Ltd.
3. Fahrni, K.C. (October, 1954): "Report on Stonewall Property"; for Granby Mines.
4. Ferguson, D.W. (December, 1981): "1981 Summary Report of the Keystone Precious Metals Project and Molybdenum Program"; for Westmin Resources Limited.
5. Livgard, E. (January 8, 1971): "Report on the Corval Resources Ltd. (NPL) Property in the Coquihalla Valley".
6. Livingstone, W. (1978): "Diamond Drill Logs, Holes 73-1 to 73-7"; for Denison Mines and Noranda Mines.
7. MacDonald, B.C. (November 26, 1966): "Summary Report of Diamond Drilling on Coquihalla Property"; for Dorian Resources.
8. Mandy, J.T. (August 4, 1951): "Report on Keystone Property (Golden Lodge, Ribond, Tab Claims)".
9. Randall, A.W. (December, 1980): "Keystone Project, Report on Drilling of Holes W80-1 and W80-2"; for Western Mines Ltd.

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CERTIFICATE

I, Robert S. Adamson, with business and residential addresses in Vancouver, British Columbia, do hereby certify that:

1. I am a consulting geological engineer.
2. I am a graduate of the University of British Columbia, (B.A. Sc. in Geological Engineering, 1957).
3. I am a registered Professional Engineer of the Province of British Columbia.
4. From 1957 until 1967, I was engaged in mineral exploration in Canada for a number of companies. Positions included Senior Geologist, Chief Geologist, and Vice-President, Exploration. Since 1967 I have been practising as a consulting geological engineer and, in this capacity, have examined and reported on numerous mineral properties in Africa, Europe, and North and South America.
5. I have examined the Keystone property on a number of occasions since September, 1986. I managed the most recent diamond drilling program in June 1989.
6. I have not received, directly or indirectly, nor do I expect to receive any interest, direct or indirect, in the property of Blue Gold Resources Ltd. or any affiliate thereof, nor do I beneficially own, directly or indirectly, any securities of Blue Gold Resources Ltd. or any affiliate thereof.

Respectfully submitted,

Vancouver, Canada



A handwritten signature in cursive script, appearing to read "R. S. Adamson", written over a horizontal line.

Robert S. Adamson, B.A.Sc., P.Eng.

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FAX (604) 662-3710

CERTIFICATE

I, **Thomas A. Morrison**, of 375 - 1440 Garden Place, Delta, British Columbia, do hereby certify that:

1. I am a graduate of the Camborne School of Mines, England (ACSM, 1976).
2. I am a registered Professional Engineer of the Province of British Columbia (registration number 14007).
3. From 1976 to 1986 I was engaged in underground mining, tunnelling, and other aspects of the mineral industries in Canada and the United States, in both the private and public sectors. Positions included shiftboss, mine captain, engineer, contract administrator, and project manager. Since 1986, I have been practising as a consulting mining engineer in Canada.
4. I supervised the diamond drill program conducted on the Keystone property from June 26 to July 4, 1989.
5. I have not received, nor do I expect to receive, any interest, directly or indirectly, in the properties or securities of Blue Gold Resources Ltd. or any associate or affiliate of Blue Gold Resources Ltd.
6. I do not have a direct or indirect interest in, nor do I beneficially own, directly or indirectly, any securities of Blue Gold Resources Ltd. or any associate or affiliate of Blue Gold Resources Ltd.

Respectfully submitted,



Vancouver, Canada

Thomas A. Morrison, ACSM, P.Eng.

ORCAN MINERAL ASSOCIATES LTD.

APPENDIX I
STATEMENT OF COSTS

STATEMENT OF COSTS

1. Diamond Drilling (June 26 - July 4, 1989) 404.4 metres		\$ 28,795.41
2. Field Supervision & Sampling T.A. Morrison - 11 days @ \$300/day		3,300.00
3. Food & Accommodation (R.S.A. and T.A.M.) 16 days		865.18
4. Mobilization & Demobilization Labour - 2 days @ \$150/day Communications & Sundries	\$ 300.00 30.65	330.65
5. Transportation (vehicle rental, gasoline, tolls)		1,729.22
6. Equipment & Supplies		102.21
7. Laboratory Analyses (30 element ICP + Au) 147 samples		2,157.45
8. Project Management, Geology & Core Logging R.S. Adamson		4,600.00
9. Miscellaneous (Insurance)		500.00
10. Report Preparation		<u>2,500.00</u>
	TOTAL	<u>\$ 44,880.12</u>

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APPENDIX II
DRILL HOLE LOGS AND SAMPLE RECORDS

ORCAN MINERAL ASSOCIATES LTD.
 1500 - 409 Granville St.
 Vancouver, B.C.
 V6C 1T2

Hole Start: June 27/89
 Hole End: June 29/89

DRILL RECORD - BLUE GOLD RESOURCES LTD. 1

Coord. _____

Length 151.2 m

Project Keystone Property

Hole No. 89-K1

Elev. _____

Azimuth _____

Location Keystone Mine Zone, Mine Creek

Date June 30, 1989

Core Size NQ

Dip -70°

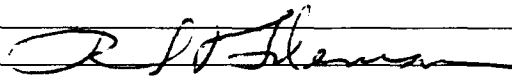
Purpose Exploration

Logged by R.S. Adamson

FOOTAGE		ROCK TYPE	DESCRIPTION	CORE LOSS		
FROM	TO			FROM	TO	LOST
0	3.0 m	Overburden				
3.0	74.8	Granodiorite	Medium grey colour, coarsely crystalline Weathered (oxidized) on fractures to 3.8 metres Weakly fractured throughout, fractures locally mineralized with quartz and rhodochrosite 22.5 - 24.3 Intensely fractured, Rusty on fractures 47.4 - 50.8 Intensely fractured, Rusty on fractures			
74.8	75.4	Basalt	Dark grey to Black, aphanitic			
75.4	77.6	Granodiorite	Same as above Weakly fractured throughout At 76.5 fractures rusty, weakly mineralized			
77.6	77.8	Basalt	Same as above			
77.8	94.8	Granodiorite	Same as above Weakly fractured, essentially non-mineralized At 87.0 locally rusty fractures			
94.8	95.2	Basalt	Medium to dark Grey, aphanitic			
95.2	107.0	Granodiorite	Same as above Very weakly fractured unmineralized			

Project

Hole No.

LENGTH		ROCK TYPE	DESCRIPTION	CORE LOSS		
FROM	TO			FROM	TO	LOST
107.0	151.2	Macro-Breccia	Dark grey, fine to medium grained Quartz Diorite Matrix containing large (up to 0.5 m), light to medium grey Granodiorite clasts; From 149.0 - 151.2 few smaller (up to 11 cm across) pale grey Rhyolite clasts in QD matrix. From 136.6 to end of hole GD clasts become increasingly altered (pale white clay). Weakly fractured throughout Mineralized throughout: numerous, very narrow (1-2mm) calcite stringers; some locally concentrated with preference for matrix rock (pyrite, and rhodochrosite with minor sphalerite and rare galena). Vuggy quartz veinlets also common (pyrite and minor rhodochrosite and calcite associated locally).			
			<u>END OF HOLE</u>			
						
			<u>REMARKS:</u>			
			Good Core Recovery throughout			

Project

Hole No.

Page

ORCAN MINERAL ASSOCIATES LTD.
 1500 - 409 Granville St.
 Vancouver, B.C.
 V6C 1T2

Hole Start: July 1/89
 Hole End: July 2/89

DRILL RECORD - BLUE GOLD RESOURCES LTD.

Coord. _____

Length 110.9 m

Project Keystone

Hole No. 89-J1

Elev. _____

Azimuth _____

Location Julie Zone, Mine Creek

Date July 5, 1989

Core Size NO

Dip -45°

Purpose Exploration

Logged by R.S. Adamson

FOOTAGE		ROCK TYPE	DESCRIPTION	CORE LOSS		
FROM	TO			FROM	TO	LOST
0	4.9	Overburden				
4.9	52.5	Rhyolite Breccia	Medium grey colour, brecciated Pebble textured (tuffaceous appearance) fine to medium grained Rhyolite Matrix containing pale grey grano- diorite clasts (up to 3 cm across) and minor, local, dark grey basalt fragments Clay alteration increases from moderate to intense down the hole Fractures uncommon; Voids occur locally Metallic mineralization (+ Py) occurs locally along very thin (1 mm) fractures			
52.5	74.7	Granodiorite Breccia	White to pale grey colour, medium to coarse grained Moderately crackled, locally healed with medium grey Rhyolite Intense clay alteration of feldspar decreasing progressively down the hole Mineralized (hematite, quartz, calcite) along locally dis- tributed, very narrow (1-2 mm), randomly oriented fractures			
74.7	84.8	Granodiorite	Same as Above Weakly crackled (in situ brecciation) Weak clay alteration of feldspars Few, narrow fractures Metallic mineralization (Py, Hematite) on few local fractures			

Project

Hole No.

ORCAN MINERAL ASSOCIATES LTD.

SAMPLE RECORD - DIAMOND DRILL HOLE 89-J1

COMPANY BLUE GOLD RESOURCES LTD. PROJECT KEYSTONE (JULIE ZONE) DATE July 20, 1989

SAMPLE		LOCATION	POSITION (m)		DESCRIPTION	LENGTH ()						
NUMBER	TYPE		FROM	TO		SAMPLE	TRUE					
31557	Core		4.9	6.5								
58			6.5	7.5								
59			7.5	8.5								
60			8.5	9.5								
61			9.5	10.5								
62			10.5	11.5								
63			11.5	12.5								
64			12.5	13.5								
65			13.5	14.5								
66			14.5	15.5								
67			15.5	16.5								
68			16.5	17.5								
69			17.5	18.5								
70			18.5	19.5								
71			19.5	20.5								
72			20.5	21.5								
73			21.5	22.5								
74			22.5	23.5								
75			23.5	24.5								
76			24.5	25.5								
77			25.5	26.5								
78			26.5	27.5								
79			27.5	28.5								
80			28.5	29.5								
81			29.5	30.5								

ORCAN MINERAL ASSOCIATES LTD.

SAMPLE RECORD - DIAMOND DRILL HOLE 89-J1

COMPANY BLUE GOLD RESOURCES LTD. PROJECT KEYSTONE (JULIE ZONE) DATE July 20, 1989

SAMPLE		LOCATION	POSITION (m)		DESCRIPTION	LENGTH ()		Assay opt			
NUMBER	TYPE		FROM	TO		SAMPLE	TRUE	Ag	Au		
31582			30.5	31.5							
83			31.5	32.5							
84			32.5	33.5							
85			33.5	34.5							
86			34.5	35.5							
87			35.5	36.5							
88			36.5	37.5							
89			37.5	38.5							
90			38.5	39.5							
91			39.5	40.5							
92			40.5	41.5							
93			41.5	42.5							
94			42.5	43.5							
95			43.5	44.5							
96			44.5	45.5							
97			45.5	46.5							
98			46.5	47.5							
99			47.5	48.5							
31600			48.5	49.5							
31851			49.5	50.5							
52			50.5	51.5							
53			51.5	52.7		1.2					
54			52.7	54.1		1.4		.03	.002		
55			54.1	55.4		1.3		.10	.001		
56			55.4	56.5		1.1		.13	.001		

D.M.P. (103)

ORCAN MINERAL ASSOCIATES LTD.

SAMPLE RECORD DIAMOND DRILL HOLE 89-J1

COMPANY BLUE GOLD RESOURCES LTD. PROJECT KEYSTONE (JULIE ZONE) DATE July 20, 1989

SAMPLE		LOCATION	POSITION (m)		DESCRIPTION	LENGTH ()		Assay opt			
NUMBER	TYPE		FROM	TO		SAMPLE	TRUE	Ag	Au		
31857			56.5	57.5				.19	.061		
58			57.5	58.5				.09	.001		
59			58.5	59.5				.01	.001		
60			59.5	60.5				.12	.001		
61			60.5	61.5				.16	.001		
62			61.5	62.5				.26	.001		
63			62.5	63.5				.26	.001		
64			63.5	64.5				.20	.001		
65			64.5	65.5				.05	.001		
66			65.5	66.5				.06	.001		
67			66.5	67.5				.12	.001		
68			68.5	69.5							
69			70.5	71.5							
70			72.5	73.5							
71			74.5	75.5							
72			76.5	77.5							
73			78.5	79.5							
74			80.5	81.5							
75			82.5	83.5							
76			84.5	85.5							
77			86.5	87.5							
78			88.5	89.5							
79			90.5	91.5							
80			92.5	93.5							

DMA-1093

Hole Start: July 2/89
Hole End: July 3/89

DRILL RECORD— BLUE GOLD RESOURCES LTD.

Coord. _____
Elev. _____
Core Size NQ

Length 71.3 m
Azimuth _____
Dip -45°

Project Keystone
Location Julie Zone, Mine Creek
Purpose Exploration

Hole No. 89-J2
Date July 6, 1989
Logged by R.S. Adamson

FOOTAGE		ROCK TYPE	DESCRIPTION	CORE LOSS		
FROM	TO			FROM	TO	LOST
0	5.5 m	Overburden				
5.5	68.3	Rhyolite Breccia	Pale grey colour, brecciated (fine grained to pebbly texture) Very irregularly distributed white, coarse grained granodiorite clasts and a few, smaller (up to 4 cm) dark grey, angular, basaltic fragments in pebbly rhyolite matrix Oxidized (rusty) to 7.9 m on fractures Large granodiorite clasts from 58.1 m Moderate clay alteration throughout Weakly fractured; very few, very thin, randomly oriented, locally distributed fractures throughout Mineralized locally on thin fractures (pyrite, hematite, other metallics?)			
68.3	71.3	Granodiorite Breccia	White to pale grey colour, coarsely crystalline Weak to moderate crackling (in situ brecciation), locally healed with pebbly rhyolite Moderate to progressively weak clay alteration down the hole Very weakly fractured Rare metallic mineralization on a few, very narrow fractures			
<u>END OF HOLE</u>						

REMARKS:

R.S. Adamson

Excellent core recovery throughout

Project

Hole No.

ORCAN MINERAL ASSOCIATES LTD.

SAMPLE RECORD - DIAMOND DRILL HOLE 89-J2

COMPANY BLUE GOLD RESOURCES LTD.

PROJECT KEYSTONE (JULIE ZONE)

DATE July 20, 1989

SAMPLE		LOCATION	POSITION (m)		DESCRIPTION	LENGTH ()							
NUMBER	TYPE		FROM	TO		SAMPLE	TRUE						
31890	Core		6.0	7.0									
91			8.0	9.0									
92			10.0	11.0									
93			12.0	13.0									
94			14.0	15.0									
95			16.0	17.0									
96			18.0	19.0									
97			20.0	21.0									
98			22.0	23.0									
99			24.0	25.0									
31900			26.0	27.0									
01			28.0	29.0									
02			30.0	31.0									
03			32.0	33.0									
04			34.0	35.0									
05			36.0	37.0									
06			38.0	39.0									
07			40.0	41.0									
08			42.0	43.0									
09			44.0	45.0									
10			46.0	47.0									
11			48.0	49.0									
12			50.0	51.0									
14			52.0	53.0									

QMA - (185)

URCAN MINERAL ASSOCIATES LTD.
 1500 - 409 Granville St.
 Vancouver, B.C.
 V6C 1T2

Hole Start: July 3/89
 Hole End: July 4/89

DRILL RECORD— BLUE GOLD RESOURCES LTD.

Coord. _____

Length 71.0 m

Project Keystone

Hole No. 89-J3

Elev. _____

Azimuth _____

Location Julie Zone, Mine Creek

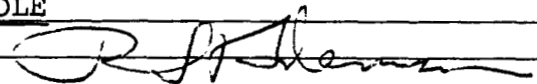
Date July 6, 1989

Core Size NQ

Dip -45°

Purpose Exploration

Logged by R.S. Adamson

FOOTAGE		ROCK TYPE	DESCRIPTION	CORE LOSS		
FROM	TO			FROM	TO	LOST
0	7.3 m	Overburden				
7.3	62.0	Rhyolite Breccia	Pale to medium grey, fine grained to pebbly (tuffaceous appearance) matrix containing randomly distributed white granodiorite clasts (up to 10 cm across) and much fewer, smaller (up to 1 cm across), dark grey, angular, basaltic fragments Moderate clay alteration of feldspar throughout Very weakly fractured in random fashion Very few, thin, darkly mineralized fractures 40.5 - 45.4 Vuggy and mineralized (pyrite, hematite, and sphalerite with minor galena and chalcopyrite). Mineralization locally disseminated and in matrix filling around GD fragments.			
62.0	71.0	Granodiorite Breccia	White to pale grey colour, medium to coarse grained Generally moderately crackled (in situ brecciation) 62.0 - 65.0 strongly brecciated with local pebbly rhyolite matrix 65.0 - 71.0 weakly brecciated Few, narrow fractures Rare mineralized (pyrite, hematite, etc.) seams and stringers			
END OF HOLE						
REMARKS: 						
Very good core recovery throughout						

Project

Hole No.

ORCAN MINERAL ASSOCIATES LTD.

ORCAN MINERAL ASSOCIATES LTD.

SAMPLE RECORD - DIAMOND DRILL HOLE 89-J3

COMPANY BLUE GOLD RESOURCES LTD.

PROJECT KEYSTONE (JULIE ZONE)

DATE July 13, 1989

SAMPLE		LOCATION	POSITION (m)		DESCRIPTION	LENGTH ()		Assay opt	
NUMBER	TYPE		FROM	TO		SAMPLE	TRUE	Ag	Au
31923	Core		8.5	9.5					
24			11.5	12.5					
25			14.5	15.5					
26			17.5	18.5					
27			20.5	21.5					
28			23.5	24.5					
29			26.5	27.5					
30			29.5	30.5					
31			32.5	33.5					
32			35.5	36.5					
33			38.5	39.5					
31934			40.5	41.5				0.74.001	
35			41.5	42.5				14.68.005	
36			42.5	43.5				9.79.004	
37			43.5	44.5				2.96.002	
38			44.5	45.5				0.17.001	
39			45.5	46.5				0.11.001	
40			47.5	48.5					
41			50.5	51.5					
42			53.5	54.5					
43			56.5	57.5					
44			59.5	60.5					
45			62.5	63.5					
46			65.5	66.5					
31947			68.5	69.5					

ORCAN MINERAL ASSOCIATES LTD.

APPENDIX III
CERTIFICATES OF ANALYSES

GEOCHEMICAL/ASSAY 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 MM 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

DATE RECEIVED: JUL 4 1989

DATE REPORT MAILED:

*July 11/89*SIGNED BY: *C. Long*

D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ORCAN MINERALS ASSOC. LTD.

File # 89-1905

DDH 89- K1

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	AG OZ/T	AU OZ/T
D 31551	1	4	25	382	.8	6	4	10995	1.70	2	5	ND	1	76	1	2	2	13	1.13	.067	11	7	.39	329	.01	2	.76	.02	.19	1	.01	.001
D 31552	1	7	385	819	.6	3	4	3257	1.63	2	5	ND	1	58	3	2	2	7	1.91	.064	11	6	.42	279	.01	2	.35	.02	.20	1	.02	.001
D 31553	3	72	619	4396	13.1	6	7	43758	7.49	11	6	ND	4	66	25	2	4	4	.24	.041	2	1	.05	14	.01	12	.30	.01	.19	1	.37	.001
D 31554	1	180	574	1796	4.4	5	5	15634	4.32	57	5	ND	1	13	8	7	2	3	.27	.054	3	1	.12	22	.01	4	.29	.01	.22	1	.15	.001
D 31555	2	33	205	761	5.3	6	6	14760	5.17	14	5	ND	1	22	3	2	2	4	.36	.057	3	3	.19	32	.01	10	.39	.01	.25	1	.15	.001
D 31556	1	14	63	796	2.4	3	5	7213	4.33	9	5	ND	1	22	4	2	3	3	.44	.058	2	2	.17	24	.01	8	.35	.01	.25	2	.08	.001

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 10 1989

DATE REPORT MAILED: July 19/89

SIGNED BY: C. Long, D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ORCAN MINERALS ASSOC. LTD.

File # 89-2038

Page 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
D 31557	24	98	310	1245	3.6	4	6	727	2.41	11	5	ND	1	30	9	18	3	2	.30	.046	7	2	.08	69	.01	2	.29	.01	.12	1	6
D 31558	30	59	419	1131	13.5	2	5	354	1.39	3	5	ND	1	1032	7	24	2	1	.43	.035	5	2	.09	62	.01	3	.29	.01	.13	1	17
D 31559	24	94	628	2136	11.4	5	7	650	2.61	7	5	ND	1	146	13	45	2	1	1.63	.047	4	1	.16	52	.01	2	.26	.01	.13	1	10
D 31560	20	77	226	360	9.6	3	4	453	1.44	6	5	ND	1	538	5	32	2	1	3.19	.039	2	2	.12	46	.01	8	.31	.01	.15	1	3
D 31561	21	50	245	399	14.3	4	4	623	1.76	2	5	ND	1	432	4	22	2	2	3.06	.039	2	2	.17	50	.01	2	.33	.01	.16	1	5
D 31562	20	41	270	1135	3.5	6	6	1052	1.90	10	5	ND	1	393	6	18	2	3	2.82	.048	4	4	.25	45	.01	9	.30	.02	.14	1	3
D 31563	22	10	153	779	2.0	3	3	1596	1.29	2	5	ND	1	690	4	2	2	4	3.12	.038	5	4	.46	75	.01	3	.32	.02	.15	1	2
D 31564	20	14	278	1289	4.3	6	5	1497	2.08	5	5	ND	1	519	7	2	2	3	2.74	.037	5	4	.39	55	.01	4	.29	.02	.13	1	4
D 31565	18	19	437	1389	7.7	4	6	1189	3.23	5	5	ND	1	556	7	3	4	3	2.73	.037	4	3	.39	25	.01	9	.28	.02	.13	1	5
D 31566	19	19	330	1292	5.8	7	5	1119	2.51	4	5	ND	1	523	7	2	2	3	2.90	.048	4	5	.29	33	.01	4	.28	.02	.12	1	3
D 31567	23	27	324	1098	6.4	3	5	1355	1.80	3	5	ND	1	474	6	13	2	4	2.80	.038	6	3	.37	50	.01	17	.23	.02	.10	1	7
D 31568	28	24	240	726	6.1	7	5	1566	2.02	8	5	ND	1	746	4	7	2	4	2.82	.044	6	6	.45	48	.01	2	.27	.02	.13	1	2
D 31569	20	16	223	661	5.3	5	3	1588	1.41	2	5	ND	1	776	3	2	2	4	3.49	.041	6	4	.53	63	.01	10	.25	.02	.12	1	3
D 31570	23	48	429	1241	9.5	2	4	1034	1.93	2	5	ND	1	547	7	22	2	3	2.19	.047	5	3	.29	41	.01	10	.28	.02	.13	1	7
D 31571	27	18	456	1239	14.1	6	4	1299	2.17	6	5	ND	1	626	7	2	2	3	2.42	.042	6	5	.33	37	.01	9	.28	.02	.14	1	5
D 31572	24	18	635	1273	25.1	5	5	1352	2.26	8	5	ND	1	598	7	2	3	3	2.38	.043	5	3	.35	35	.01	2	.26	.02	.14	1	7
D 31573	24	14	537	1698	15.6	6	5	1395	1.82	11	5	ND	1	556	10	2	2	3	2.32	.040	6	5	.39	47	.01	2	.31	.02	.16	1	3
D 31574	18	30	559	2967	15.3	4	5	1435	2.04	4	5	ND	1	607	15	2	2	3	2.45	.045	5	3	.37	34	.01	2	.27	.02	.15	1	4
D 31575	21	21	653	1818	9.6	4	7	1370	2.58	3	5	ND	1	570	10	2	4	6	2.64	.043	4	4	.43	31	.01	3	.39	.02	.16	1	5
D 31576	22	43	177	929	.6	3	5	1571	1.70	5	5	ND	1	834	6	2	2	3	2.89	.041	6	2	.32	56	.01	8	.32	.01	.17	1	5
D 31577	29	48	112	613	.2	3	3	1257	1.04	3	5	ND	1	481	4	2	2	3	2.21	.046	7	3	.23	123	.01	9	.39	.01	.21	1	1
D 31578	18	42	96	1219	1.0	3	3	1768	1.25	2	5	ND	1	792	6	2	2	2	3.11	.037	5	3	.29	65	.01	2	.32	.01	.20	1	4
D 31579	18	12	340	1040	1.1	7	5	2100	1.79	4	5	ND	1	528	5	2	2	3	2.21	.042	7	5	.28	71	.01	15	.36	.02	.19	1	5
D 31580	24	193	82	428	.5	5	4	3997	1.54	2	5	ND	1	665	2	2	3	3	1.69	.038	6	3	.37	69	.01	6	.31	.01	.20	2	5
D 31581	18	91	89	409	.3	3	3	2940	1.13	2	5	ND	1	310	2	2	2	3	3.14	.042	7	4	.33	96	.01	2	.32	.01	.20	2	2
D 31582	14	81	236	674	5.6	7	3	2693	1.41	3	5	ND	1	303	4	29	2	2	3.09	.040	5	5	.33	63	.01	2	.32	.01	.20	1	8
D 31583	21	31	284	2075	7.8	4	4	2028	1.59	2	5	ND	1	225	10	2	2	2	3.20	.042	4	4	.29	43	.01	2	.30	.01	.19	1	14
D 31584	12	77	420	5373	11.1	6	4	2451	1.94	2	5	ND	1	344	23	2	2	3	3.97	.036	4	5	.40	24	.01	13	.32	.01	.19	1	23
D 31585	21	35	335	2354	3.2	3	4	1811	1.39	2	5	ND	1	265	12	2	2	2	2.50	.044	6	4	.30	69	.01	2	.33	.01	.20	1	4
D 31586	24	37	372	3244	4.9	7	4	2127	1.48	2	5	ND	1	227	16	2	2	3	3.08	.047	5	5	.36	56	.01	3	.37	.01	.21	1	7
D 31587	24	13	355	1318	4.4	5	4	2264	1.55	2	5	ND	1	351	7	2	2	3	3.21	.045	6	3	.41	45	.01	3	.31	.01	.18	1	5
D 31588	37	33	457	1485	7.4	4	6	2403	1.74	2	5	ND	1	184	7	4	2	5	2.49	.040	7	5	.34	91	.01	8	.31	.02	.18	1	8
D 31589	47	73	177	662	.4	3	4	2163	1.58	2	5	ND	1	235	3	2	2	6	2.44	.046	9	4	.37	183	.01	2	.31	.01	.19	1	3
D 31590	21	74	596	3031	12.7	10	5	1910	2.25	3	5	ND	1	195	16	2	2	3	3.17	.045	4	7	.34	38	.01	2	.35	.01	.22	1	7
D 31591	21	48	351	748	.8	4	4	2013	1.77	2	5	ND	1	243	4	2	2	4	2.40	.046	7	3	.35	128	.01	2	.31	.01	.20	1	4
D 31592	12	36	111	1194	.6	7	4	1913	1.63	2	5	ND	1	280	6	2	3	4	2.85	.046	7	6	.36	72	.01	2	.37	.01	.23	1	3
STD C/AU-R	18	61	40	132	6.6	57	30	1052	4.11	41	18	7	37	49	18	14	22	59	.52	.089	38	56	.92	179	.07	34	2.06	.06	.14	12	495

DDH 89-J1

GEOCHEMICAL/ASSAY 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 AG** + AU** BY FIRE ASSAY FROM 1/2 A.T.

DATE RECEIVED: JUL 10 1989

DATE REPORT MAILED: July 19/89

SIGNED BY: *C. Chung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ORCAN MINERALS ASSOC. LTD.

File # 89-2038A

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	V	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Ag**	Au**
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	OZ/T	OZ/T
D 31854	1	20	353	761	1.7	5	4	1250	1.83	6	5	ND	1	323	3	2	2	8	2.21	.058	4	4	.40	92	.01	3	.30	.02	.15	1	.03	.002
D 31855	1	46	525	2048	2.3	5	3	1604	1.52	9	5	ND	1	376	11	2	2	5	2.34	.055	3	6	.27	57	.01	2	.31	.02	.14	1	.19	.001
D 31856	2	73	557	2941	5.7	5	4	1525	1.65	3	5	ND	1	439	14	6	2	4	2.77	.054	3	6	.31	50	.01	7	.30	.01	.14	1	.13	.001
D 31857	1	54	908	3621	7.1	4	6	1384	1.06	11	5	ND	1	444	12	2	2	8	2.58	.055	4	4	.42	52	.01	3	.25	.02	.11	1	.19	.001
D 31858	2	9	537	1017	3.1	6	4	1838	1.82	4	5	ND	1	325	4	2	2	9	2.11	.061	5	5	.30	103	.01	3	.30	.02	.14	1	.08	.001
D 31859	1	15	562	731	.3	3	3	1959	1.31	5	5	ND	1	638	3	2	2	5	1.26	.063	4	4	.25	94	.01	3	.29	.02	.16	1	.01	.001
D 31860	3	58	1017	1615	1.4	6	3	1861	1.06	8	5	ND	1	813	9	2	2	4	2.63	.061	3	5	.24	54	.01	6	.31	.01	.15	1	.12	.001
D 31861	1	179	1974	3159	4.6	4	6	5100	2.37	12	5	ND	1	793	15	2	2	6	3.42	.057	4	5	.51	63	.01	7	.28	.01	.13	1	.16	.001
D 31862	1	57	299	813	7.2	7	6	3508	2.01	2	5	ND	1	412	3	2	2	7	2.49	.059	4	4	.41	95	.01	3	.32	.02	.15	1	.26	.001
D 31863	2	27	211	306	2.3	4	5	3425	1.77	4	5	ND	1	505	1	2	2	5	2.93	.060	4	2	.43	98	.01	3	.27	.01	.12	3	.08	.001
D 31864	2	43	171	291	6.5	7	5	2488	1.80	3	5	ND	1	406	1	2	2	10	2.48	.064	5	4	.48	144	.01	4	.33	.02	.13	2	.20	.001
D 31865	2	26	186	1396	3.1	3	4	2075	1.56	2	5	ND	1	332	7	2	2	7	2.70	.064	5	4	.45	139	.01	4	.32	.02	.16	1	.05	.001
D 31866	3	16	122	636	3.4	8	4	3557	1.61	2	5	ND	2	255	3	2	2	8	2.15	.056	10	5	.43	188	.01	4	.32	.02	.13	1	.06	.001
D 31867	2	22	134	1224	4.2	5	3	5193	1.31	2	5	ND	1	214	5	2	2	5	1.74	.056	5	4	.30	136	.01	2	.36	.02	.19	1	.12	.001
D 31934	9	31	449	754	22.5	10	4	252	1.53	9	5	ND	1	265	5	8	2	2	2.06	.041	3	7	.13	58	.01	2	.30	.01	.15	1	.74	.001
D 31935	14	1265	4286	4581	457.7	8	9	23	3.44	196	5	ND	1	384	35	41	2	2	1.48	.034	2	6	.02	31	.01	3	.28	.01	.15	1	14.68	.005
D 31936	14	433	3700	4933	310.9	12	11	28	3.45	101	5	ND	1	899	37	16	2	2	1.53	.027	2	9	.02	34	.01	3	.28	.01	.14	1	9.79	.004
D 31937	7	341	1305	5303	98.4	10	10	168	4.37	78	5	ND	1	1002	39	51	2	3	3.01	.066	2	6	.07	26	.01	12	.29	.01	.13	5	2.96	.002
D 31938	11	8	213	382	5.4	10	5	582	2.57	4	5	ND	1	374	3	2	5	2	2.74	.055	3	6	.31	52	.01	3	.34	.01	.13	2	.17	.001
D 31939	22	6	141	489	3.7	8	5	454	2.56	4	5	ND	1	198	3	2	2	2	2.64	.044	3	3	.30	49	.01	6	.29	.01	.13	2	.11	.001
STD C	17	61	39	132	7.2	71	30	1033	4.06	42	21	8	36	48	18	17	22	61	.50	.094	38	55	.88	174	.07	37	1.86	.06	.14	13	-	-

DDH 89 - J1

89-J3

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Tl	B	Al	Va	K	W	AU*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	PPM	PPM	
D 31593	12	58	217	2074	1.3	4	3	1453	1.71	2	5	ND	1	257	10	2	4	3	3.50	.040	5	2	.42	73	.01	10	.28	.01	.19	1	3
D 31594	17	33	263	1923	3.0	5	2	1395	1.03	2	5	ND	1	381	9	4	2	4	3.15	.046	6	3	.34	70	.01	2	.29	.01	.13	1	3
D 31595	14	18	459	2036	3.1	5	2	2085	1.03	2	5	ND	1	415	10	2	4	3	2.93	.049	7	3	.38	94	.01	5	.27	.01	.15	1	1
D 31596	17	25	669	4472	7.7	5	3	1997	1.32	3	5	ND	1	1213	23	2	2	3	3.68	.040	4	4	.37	44	.01	2	.24	.01	.16	1	2
D 31597	17	38	595	1666	4.1	4	2	2038	1.22	3	5	ND	1	282	9	4	2	3	2.92	.042	5	2	.31	69	.01	2	.27	.01	.17	1	1
D 31598	24	15	340	750	1.3	7	2	2506	1.08	2	5	ND	1	293	4	2	2	3	2.73	.039	7	4	.36	121	.01	2	.29	.01	.18	1	3
D 31599	26	12	312	932	1.3	5	3	2257	1.05	2	5	ND	1	331	4	2	2	4	2.99	.043	6	3	.36	99	.01	2	.27	.01	.15	1	3
D 31600	3	9	313	1049	2.3	5	1	1460	.99	2	5	ND	1	274	5	2	2	2	2.55	.035	4	4	.29	79	.01	2	.33	.02	.14	1	2
D 31851	2	10	156	629	1.1	4	2	1725	1.12	2	5	ND	1	311	3	2	2	4	2.49	.034	6	3	.37	130	.01	4	.26	.02	.15	1	2
D 31852	2	24	258	807	1.3	7	6	2131	2.21	3	5	ND	1	509	4	2	3	10	2.50	.055	8	4	.50	142	.01	2	.26	.02	.15	1	4
D 31853	1	25	829	721	3.6	7	5	1898	1.77	5	5	ND	1	257	2	2	2	9	2.39	.062	8	3	.37	126	.01	6	.30	.02	.16	1	4
D 31868	2	13	59	286	1.9	6	6	4100	2.18	2	5	ND	1	120	1	2	3	16	2.59	.064	3	4	.50	177	.01	3	.30	.03	.14	1	3
D 31869	1	109	152	3641	19.2	5	5	6456	2.13	2	5	ND	1	203	13	2	2	7	1.97	.062	3	3	.33	195	.01	5	.34	.02	.22	1	1
D 31870	5	234	236	4778	11.6	3	4	4003	2.02	2	5	ND	1	55	20	2	2	5	.98	.059	3	4	.16	96	.01	4	.41	.01	.25	1	5
D 31871	5	174	216	2789	16.5	6	4	4225	1.58	2	5	ND	1	166	10	2	2	5	2.10	.060	3	3	.24	110	.01	2	.36	.01	.22	1	1
D 31872	2	36	126	1955	7.3	6	4	3375	1.13	2	5	ND	1	125	8	2	2	4	2.47	.060	5	4	.26	129	.01	5	.30	.02	.18	1	2
D 31873	1	29	260	1082	5.2	4	3	4739	1.22	2	5	ND	1	236	4	2	2	4	2.77	.048	3	3	.31	126	.01	2	.29	.02	.17	1	5
D 31874	2	121	501	1792	22.1	7	4	4566	1.24	2	5	ND	1	145	8	2	2	4	2.94	.059	4	4	.28	101	.01	2	.29	.02	.17	1	9
D 31875	1	24	241	1190	7.9	8	5	5281	1.50	2	5	ND	1	167	5	2	3	6	2.87	.061	2	3	.34	127	.01	7	.30	.02	.18	1	2
D 31876	7	43	329	2941	5.9	10	5	6519	1.35	2	5	ND	1	247	12	2	2	6	2.88	.061	4	7	.34	100	.01	2	.36	.01	.24	1	4
D 31877	1	41	170	2681	10.6	7	5	7123	1.71	3	5	ND	1	157	10	2	2	5	1.90	.068	2	3	.31	220	.01	5	.35	.02	.23	1	1
D 31878	13	153	229	6588	10.9	11	7	5333	2.10	2	5	ND	1	76	27	2	4	8	1.08	.072	8	11	.21	167	.01	4	.41	.01	.25	2	1
D 31879	286	1007	994	4013	102.3	6	3	4473	1.46	2	5	ND	1	91	17	4	13	6	1.23	.064	4	3	.21	189	.01	2	.34	.02	.23	1	1
D 31880	1	204	356	3591	15.6	7	4	5115	1.73	2	5	ND	1	103	14	2	4	8	1.74	.078	7	3	.23	141	.01	5	.35	.02	.23	1	3
D 31881	2	175	170	4638	12.2	8	4	4640	1.60	2	5	ND	1	205	19	2	2	6	1.63	.060	6	3	.26	170	.01	3	.35	.02	.22	1	10
D 31882	44	96	55	3526	7.9	14	7	7986	2.15	2	5	ND	1	205	15	2	4	12	3.17	.058	4	7	.52	122	.01	2	.40	.01	.26	1	7
D 31883	2	28	112	2266	3.7	59	18	12821	4.08	7	5	ND	2	260	8	2	3	47	3.63	.050	4	115	.70	109	.01	2	.36	.01	.19	1	10
D 31884	3	71	79	2653	3.3	8	5	7086	2.00	2	5	ND	1	152	12	2	2	8	1.77	.063	4	4	.26	236	.01	2	.36	.02	.24	1	6
D 31885	2	104	87	3201	10.9	6	3	5737	1.31	2	5	ND	1	155	18	2	2	6	1.61	.043	3	4	.20	282	.01	2	.32	.02	.23	1	9
D 31886	19	36	117	2873	15.9	20	11	17955	4.13	5	5	ND	2	155	18	2	2	31	2.39	.110	7	23	.42	138	.01	3	.48	.01	.28	1	28
D 31887	2	28	318	3763	24.3	5	1	4808	.65	2	5	ND	1	158	22	2	2	3	4.37	.073	3	3	.14	45	.01	3	.29	.01	.22	1	11
D 31888	2	19	23	1940	2.5	5	4	8097	1.93	2	5	ND	1	188	12	2	4	9	1.62	.064	4	5	.21	355	.01	2	.36	.01	.24	1	7
D 31889	2	31	15	4116	4.9	4	4	6968	1.66	2	5	ND	1	149	26	2	2	6	2.10	.059	3	3	.22	178	.01	4	.37	.01	.25	1	1
D 31890	40	50	997	1214	8.8	7	4	210	2.68	6	5	ND	2	39	8	9	2	1	.04	.026	6	5	.01	50	.01	2	.31	.01	.15	1	3
D 31891	22	16	611	1739	4.8	7	4	541	2.01	4	5	ND	2	176	11	4	4	1	.67	.033	4	4	.16	55	.01	3	.30	.01	.15	2	1
D 31892	23	12	496	1260	1.8	8	4	809	1.47	2	5	ND	1	331	8	4	3	2	3.00	.043	3	5	.19	53	.01	4	.25	.01	.14	1	2
STD C/AU-R	18	60	37	132	6.7	69	30	1055	4.10	43	19	7	38	49	18	14	22	58	.53	.087	38	54	.93	174	.07	32	2.04	.06	.14	11	510

DPH 09-J1

DPH 89-J2

DDH 89-J2

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
D 31893	24	56	431	1415	3.2	3	4	1081	1.33	2	5	ND	1	457	3	28	2	2	3.18	.048	4	14	.22	72	.01	8	.25	.02	.15	1	5
D 31894	21	3	590	1566	13.1	5	4	1268	1.73	2	5	ND	1	462	8	2	2	3	3.29	.040	5	3	.30	57	.01	2	.23	.02	.14	1	1
D 31895	27	6	432	1091	11.9	1	3	996	1.06	2	5	ND	1	581	6	2	2	3	2.75	.041	5	17	.33	64	.01	7	.21	.02	.12	1	3
D 31896	24	18	494	1739	23.8	6	5	1046	1.59	3	5	ND	1	711	10	2	2	3	1.54	.042	7	3	.30	59	.01	8	.26	.02	.15	1	2
D 31897	21	96	650	1864	12.7	5	5	964	2.11	12	5	ND	1	582	10	42	2	3	2.61	.038	5	17	.32	35	.01	3	.26	.01	.16	1	1
D 31898	26	14	624	1564	12.8	6	4	1373	1.59	3	5	ND	1	310	3	2	2	3	2.74	.040	6	5	.41	43	.01	2	.29	.01	.17	1	5
D 31899	20	10	418	1280	5.2	4	5	1308	1.32	4	5	ND	1	268	7	2	2	3	2.83	.041	5	20	.43	53	.01	3	.28	.02	.17	1	1
D 31900	21	117	683	2191	18.0	6	5	1630	2.19	3	5	ND	1	245	13	19	2	4	2.37	.043	6	4	.32	53	.01	7	.31	.02	.19	1	4
D 31901	16	52	392	1178	1.8	3	4	1921	1.36	2	5	ND	1	257	7	2	2	4	2.55	.041	7	19	.31	145	.01	2	.29	.01	.22	1	6
D 31902	21	32	375	533	2.8	3	3	2050	1.31	2	5	ND	1	233	2	2	2	4	2.55	.030	8	4	.35	175	.01	5	.33	.01	.23	1	3
D 31903	39	243	990	2491	22.3	4	4	1795	1.23	10	5	ND	1	397	13	54	2	3	2.67	.041	6	13	.30	59	.01	2	.32	.01	.24	1	5
D 31904	13	21	1300	2372	10.0	5	4	2160	1.10	2	5	ND	1	192	12	2	2	3	2.89	.043	7	5	.36	167	.01	6	.34	.01	.23	1	13
D 31905	17	28	739	2251	33.8	2	4	1380	.97	2	5	ND	1	265	12	2	2	3	2.61	.041	6	17	.29	77	.01	12	.30	.01	.22	1	5
D 31906	16	11	506	1312	5.5	6	3	1428	1.09	2	5	ND	1	460	10	2	2	3	2.51	.041	6	5	.32	75	.01	4	.30	.01	.19	1	3
D 31907	16	18	578	1567	7.7	5	7	1976	1.75	3	5	ND	1	270	9	2	2	3	2.30	.041	5	20	.32	76	.01	7	.27	.01	.20	1	3
D 31908	17	39	297	1147	6.2	6	4	2015	1.53	2	5	ND	1	324	5	2	2	7	2.42	.049	7	7	.34	158	.01	2	.30	.01	.20	1	3
D 31909	17	7	59	237	2.3	2	4	1963	1.25	2	5	ND	1	316	1	2	2	4	2.53	.043	7	20	.34	156	.01	3	.31	.01	.22	1	4
D 31910	2	25	274	1238	4.1	4	7	3332	2.18	2	5	ND	1	522	5	2	2	12	2.61	.073	10	4	.45	251	.01	5	.35	.02	.21	1	3
D 31911	15	10	153	346	2.6	2	4	2655	1.25	2	5	ND	1	884	4	2	2	5	3.07	.042	7	24	.39	110	.01	2	.30	.01	.21	1	3
D 31912	12	76	452	2841	7.4	6	4	2886	1.35	2	5	ND	1	954	14	2	2	5	2.97	.049	6	4	.36	100	.01	7	.31	.02	.21	1	6
D 31913	7	30	241	1366	.5	4	4	3603	1.23	3	5	ND	1	595	5	2	2	5	2.39	.052	8	20	.32	241	.01	8	.33	.02	.21	1	2
D 31914	19	27	1007	1691	1.5	4	3	3991	1.23	2	5	ND	1	165	8	2	2	4	3.12	.047	6	5	.38	105	.01	9	.34	.01	.26	1	3
D 31915	17	358	1843	3085	12.8	2	3	3409	1.25	5	5	ND	1	193	15	18	2	4	2.53	.045	6	23	.33	77	.01	5	.37	.01	.27	1	5
D 31916	15	156	819	2085	4.7	4	3	3127	.94	2	5	ND	1	135	10	14	2	4	2.24	.053	8	4	.27	145	.01	2	.35	.01	.24	1	7
D 31917	15	25	226	367	2.3	5	5	4772	1.54	2	5	ND	1	162	1	2	2	7	2.25	.055	7	19	.39	310	.01	7	.36	.02	.23	1	1
D 31918	22	17	210	969	9.2	7	3	3857	1.30	2	5	ND	1	210	4	2	2	7	2.29	.044	7	5	.36	181	.01	4	.36	.01	.23	1	1
D 31919	6	33	537	2617	10.4	4	5	3696	1.51	2	5	ND	1	290	11	2	2	7	2.11	.047	7	20	.39	203	.01	8	.34	.02	.20	1	7
D 31920	2	22	432	1294	4.7	6	4	3159	1.40	3	5	ND	1	223	5	2	2	7	2.26	.055	7	5	.39	165	.01	2	.37	.02	.20	1	22
D 31921	1	19	187	1224	3.9	6	6	3809	1.76	2	5	ND	1	1369	5	2	2	8	2.38	.045	6	20	.56	142	.01	5	.38	.02	.22	1	6
D 31922	1	12	291	636	5.3	15	8	4335	2.21	2	5	ND	1	985	2	2	2	14	2.85	.059	5	7	.67	173	.01	2	.42	.02	.22	1	10
STD C/AU-R	18	61	37	132	6.5	67	30	1015	3.99	41	17	7	37	49	18	15	17	59	.51	.087	38	56	.89	179	.07	34	1.93	.06	.13	12	490

- ASSAY REQUIRED FOR CORRECT RESULT. *for Ag > 30 ppm*

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 NG 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 12 1989 DATE REPORT MAILED: July 17/89 SIGNED BY: *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ORCAN MINERALS ASSOC. LTD. File # 89-2106

DDH 89-J3

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	PPM	PPM	
D 31923	31	10	60	139	1.3	4	2	676	.72	4	5	ND	1	438	1	2	2	1	3.30	.057	4	2	.26	56	.01	2	.24	.01	.14	1	3
D 31924	30	14	110	199	2.3	6	5	333	1.49	2	5	ND	1	1031	2	2	2	1	2.36	.044	3	2	.25	50	.01	2	.23	.02	.14	1	1
D 31925	51	7	56	176	2.0	5	1	219	.42	2	5	ND	1	585	1	2	2	1	2.29	.033	3	3	.12	63	.01	7	.25	.01	.15	1	3
D 31926	26	6	144	131	3.5	3	4	465	1.75	2	5	ND	1	456	3	2	2	1	2.37	.044	4	2	.30	51	.01	6	.24	.02	.15	1	6
D 31927	16	10	147	406	1.5	5	4	402	2.23	2	5	ND	1	920	3	2	2	2	2.50	.038	3	3	.20	32	.01	7	.29	.01	.18	1	5
D 31928	24	46	141	326	2.4	11	7	407	1.30	16	5	ND	1	449	3	2	2	2	2.50	.077	4	3	.13	41	.01	16	.30	.01	.19	1	1
D 31929	36	29	86	298	1.8	7	5	562	1.70	12	5	ND	2	351	2	2	3	2	2.50	.041	3	3	.22	45	.01	4	.29	.01	.19	1	1
D 31930	15	11	122	317	2.3	8	5	464	1.36	2	5	ND	2	394	2	2	2	2	2.65	.053	4	2	.19	42	.01	7	.29	.02	.19	1	2
D 31931	29	5	138	369	1.7	7	4	499	1.49	3	5	ND	1	444	3	2	2	2	2.18	.044	4	3	.23	58	.01	2	.30	.02	.19	1	1
D 31932	32	7	105	283	1.7	4	4	386	1.03	2	5	ND	1	266	2	2	2	2	2.75	.045	3	2	.20	53	.01	2	.26	.01	.18	1	2
D 31933	25	6	160	312	2.1	3	4	424	1.44	2	5	ND	1	357	2	2	2	2	2.96	.038	3	3	.26	49	.01	2	.24	.01	.16	1	1
D 31940	16	7	127	356	3.6	6	4	422	1.55	3	5	ND	1	325	2	2	2	2	2.37	.040	3	3	.26	53	.01	3	.27	.01	.17	1	2
D 31941	11	25	90	343	5.4	4	5	509	1.84	3	5	ND	2	232	3	4	2	3	3.01	.054	4	4	.40	43	.01	9	.29	.02	.19	1	4
D 31942	8	6	39	137	1.5	3	6	375	1.70	3	5	ND	1	511	1	2	2	3	2.42	.053	4	3	.48	63	.01	6	.28	.02	.17	1	2
D 31942	4	3	53	154	1.5	3	2	308	.94	2	5	ND	1	241	1	2	2	2	2.56	.044	4	3	.32	65	.01	8	.27	.02	.17	1	2
D 31944	5	17	28	30	1.3	3	6	544	2.36	2	5	ND	1	585	1	2	2	3	3.39	.059	3	3	.70	62	.01	4	.27	.02	.17	2	1
D 31945	2	9	53	187	1.2	5	5	337	1.78	3	5	ND	1	370	1	2	2	2	3.09	.065	3	4	.39	59	.01	5	.27	.02	.15	1	2
D 31946	1	8	113	34	2.6	4	3	437	1.59	2	5	ND	1	371	1	2	3	3	3.86	.058	2	4	.57	47	.01	7	.22	.02	.13	1	1
D 31947	2	6	36	91	.8	5	2	375	.93	2	5	ND	1	165	1	2	2	2	3.37	.059	3	4	.43	37	.01	5	.26	.02	.16	1	1
STD C/AU-R	19	60	42	132	7.1	72	31	1038	4.03	39	21	8	40	52	19	15	20	58	.52	.093	41	56	.89	180	.07	37	1.92	.06	.14	13	510