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GEOCHEMICAL SURVEY

SUMMARY REPORT

BAIN 3, 4 CLAIMS

Alberni Mining Division 49°11' N. Latitude 124°43' W. Longitude N.T.S. 92F/2

for

Mingold Resources Inc. #405-470 Granville Street Vancouver, B.C. V6C 1V5

December 27, 1989

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By:

George E. Nicholson B.Sc. John A. Nicholson B.Sc.

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Summary

The Bain claims consist of two contiguous blocks of claims, the Bain 3 and 4, totalling 40 units. The claims are located on China Creek approximately 6km southeast of Port Alberni, B.C. The claims were staked late in 1985 as part of a package of claims designed to cover old mineral showings as well as an airborne magnetic anomaly and some geochemical anomalies.

The area has a long history of activity. Placer mining for gold on China Creek during the 1800's led to the discovery of numerous lode deposits in the area. More recently the focus of attention has been on the Sicker Group rocks, the host rock for several new mineral occurrences. Most notable of these is the Debbie project operated by Westmin Resources Ltd. Here, economic values in gold and other metals has been outlined in three zones by diamond drilling.

The eastern part of the Bain claims is underlain by Myra Formation of Paleozoic Sicker Group rocks. A north trending fault through the property forms the contact between the Sicker Group, the oldest unit, and younger rocks to the west on the property. These rocks range in age from Triassic to Tertiary. The presence of both Myra Formation and Tertiary intrusions in the claims area is considered to be a favourable

geological environment for base and precious metal deposition (Leriche, 1987). A limited geochemical programme in 1989 detected some spot anomalies. Further work is required in and around these anomalies; as well the southwest portion of Bain 3 where Jurassic Island intrusives are in contact with the surrounding Nanaimo Sediments and Karmutsen volcanics, requires prospecting.

1) Introduction

The Bain 3,4 option of Mt. Expeditor Resources Ltd. consists of 40 units in the Alberni Mining Division. The claims lie west of and are contiguous to the Debbie project, a project actively being explored by Westmin and its partners. The close proximity to the Debbie project, the number of mineralized showings within close distance to the claims, and similar geological settings indicate that the Bain claims have potential to host a vein/polymetallic deposit similar to ones nearby.

Field work commenced November 12, 1989 and was completed November 20, 1989. A crew of two persons employed by Mingold Resources Inc. was based in Port Alberni, B.C. for the work. The crew collected principally soil samples from the property. Emphasis was directed towards the northeast corner of Bain 4 where previous work had identified some anomalous values. A grid was established over this area.

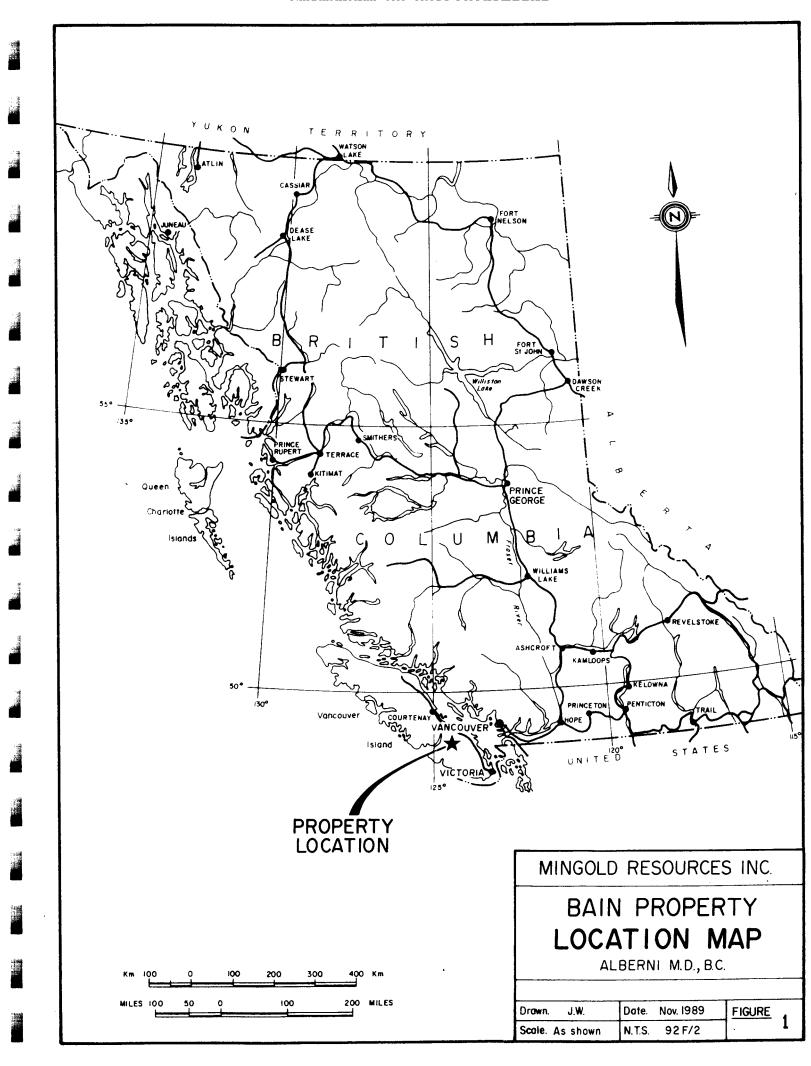
The results from this initial stage of exploration produced results that indicated spot high anomalies, particularly in Au, Cu and Zn, and yielded one NW trend. Further follow-up is required to explain the spot anomalies, to discern the NW trend further, and to determine if the underlying Sicker Groups rocks may host a precious/base metals deposit.

2) Location and Access

The Bain claims (Bain 3 and 4) are located approximately 6km SE of Port Alberni, Vancouver Island, B.C. China Creek running approximately east-west splits the property in half.

The claims comprise 40 units centered at Latitude 49° 11'
North, Longitude 124° 43' west (Figure 1).

Access is gained via the China Creek logging road from Port Alberni. The road traverses through the Bain 4 and a portion of the Bain 3. The main logging road is in excellent driving condition however several spur roads accessing other portions of the ground are in various stages of disrepair.



3) Claim Status

The Bain project is comprised of 2 claim blocks located on Mineral Titles Reference Maps 92 F/2. The two blocks are each 20 units totalling 40 units and adjoin each other with a common north-south border (Figure 2). The claim names, size, and status are summarized below and additional information is available in Appendix 2. Upon registering of assessment work the claims will be in good standing until the expiry date shown.

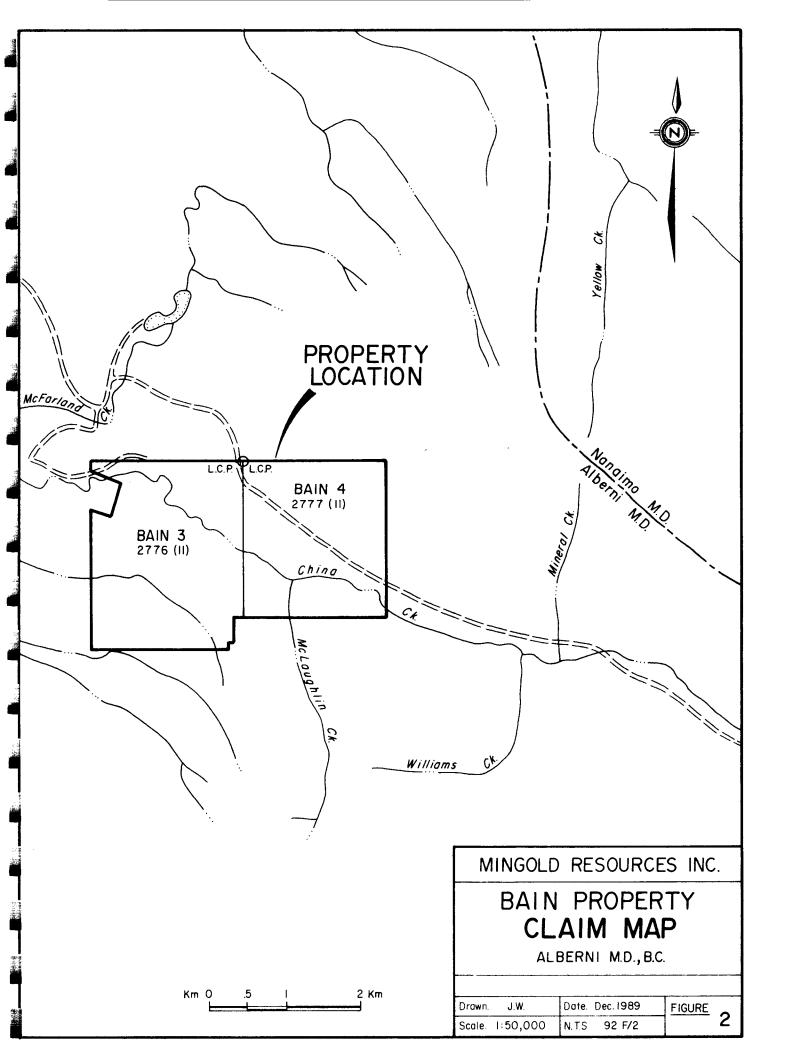
Claim Name	Record Number	No. Units	Exp iry Date
Bain 3	2776	20	Nov. 29, 1990*
Bain 4	2777	20	Nov. 29, 1990*

^{*} Subject to acceptance of filing this work.

4) Work History

The area around the Bain claims has had an extensive history of exploration activity. For this the reader is referred to the 1987 report by Leriche which most adequately summarizes it.

On the Bain claims themselves, there is no record of work prior to 1962. In 1962, a helicopter airborne magnetic survey was flown for Canadian Pacific Oil and Gas. A number of magnetic anomalies were discovered including one on the present Bain 3 claim. During the 1960's, several companies and prospectors located a number of mineralized showings. The most extensive undertaking involved a short adit being driven



in one showing, however, nothing amounted from the effort. Most of the showings were copper bearing and found either in gosssanous zones or sheared vein structures. In 1980, Western Mines Ltd. (now Westmin Resources Ltd.), carried out a detailed geochemical soil survey program in the area. This survey indicated a NNW trending zone anomalous in copper. The present Bain 4 claims cover the southern extremity of this zone.

In 1985, the Bain claims were staked for Mr. Clive Ashworth. His company, Ashworth Explorations Limited (A.E.L.), performed a brief rock sampling program around an old prospect in 1986 which returned low values. In 1987, A.E.L. conducted three field visits to the Bain claims and performed silt, soil, and rock geochemical surveys. It was on the results obtained during these surveys and the favourable geological setting that Mingold Resources Inc., in 1989, opted to conduct their own, more detailed, geochemical surveys.

5) Physiography and Vegetation

The terrain encompassed by the Bain 3 and 4 claims is rugged. Topographic relief ranges from 120 meters above mean sea level at China Creek to approximately 1000 meters along the eastern boundary of the property. The eastern portion of Bain 4 has particularly steep slopes.

The area is covered by extremely thick second growth timber, mostly Douglas fir, hemlock and cedar. Underbrush

consists of various deciduous scrubbrush and young conifers, and can also be quite thick.

6) Geology

The following regional geology is summarized from Laanela, 1986 and is illustrated on Figure 3.

The oldest rocks on the property, and on Vancouver Island, are those of the Paleozoic Sicker Group. Muller (GSC, 1980) has divided this group, oldest to youngest, as the Nitinant Formation, an informal sediment-sill unit, Myra Formation, and Buttle Lake Formation. These Sicker Group rocks are generally overlain by Triassic Vancouver Group, here represented mainly by the Karmutsen Formation volcanics. Both groups are intruded by the Jurassic Island Intrusions, mainly dioritic stocks, and more locally by sills and dykes of Tertiary age (correlated with Catface Intrusions on the west coast of Vancouver Island). Along the east side of the Island, and also in the Port Alberni area, the Late Cretaceous Nanaimo Group sediments overlie extensively the older rocks. In places, such as at Patlicant Mountain and Bainbridge Lake, these sediments are intruded by extensive sills of the above Tertiary Instrusions.

The most dominant regional structures on the Island are a series of long NNW to north trending systems of steep faults affecting Sicker and Vancouver Group rocks and giving a "patchwork" appearance to the geological maps. There have

Figure 3 Geological sketch map of Vancouver Island. LEGEND MIDDLE TERTIARY CARMANAH GROUP EARLY TO MIDDLE TERTIARY CATFACE INTRUSIONS EARLY TERTIARY METCHOSIN VOLCANICS LATE CRETACEOUS NANAIMO GROUP **③** QUEEN CHARLOTTE GROUP LATE JURASSIC KYUQUOT GROUP EARLY CRETACEOUS LEECH RIVER FORMATION PACIFIC RIM COMPLEX 2 EARLY AND (?) MIDDLE ISLAND INTRUSIONS JURASSIC EARLY JURASSIC BONANZA GROUP VANCOUVER GROUP PARSON BAY FORMATION QUATSING FORMATION LATE AND (?) MIDDLE TRIASSIC KARMUTSEN FORMATION PALEOZOIC SICKER GROUP METAMORPHIC COMPLEXES JURASSIC AND OLDER LYNN GROUP 0 ALERT BAY - CAPE SCOTT. 921 - 102 1 (G.S.C. PAPER 74-8) BUTE INLET, 92 K (IN PREPARATION), O.P. MAP 345 **②** NOOTKA SOUND, 92 E (IN PREPARATION) **③** ALBERNI 92 F (G.S.C. PAPER 68-50) **④** VICTORIA, 92 B. C (FIELD WORK IN PROGRESS: **③** SEE G.S.C. PAPERS 75-1A, p.21-26: 76-IA, p. 107-111, 77-IA, p. 287-294.1 - BUTTLE LAKE UPLIFT - COWICHAN - HORNE LAKE UPLIFT -- NANOOSE UPLIFT (3) MILES 20

been several periods of faulting, intrusion and volcanic activity.

The oldest, Sicker Group rocks, have been generally buried under a thick Mesozoic cover, except where they have now been exposed in three major (and some smaller) "uplift" areas or arches. These are: The Buttle Lake Uplift, toward the north, the extensive Cowichan - Horne Lake Uplift, toward the south, and the smaller Nanoose Uplift, north of Nanaimo. The Bain claims are situated along the western edge of the northern end of the Cowichan - Horne Lake Uplift.

These uplifted belts of Sicker Group, particularly where they contain the sedimentary rocks of Myra Formation, are considered to be the geologically most favourable and economically most promising areas for base and precious metal exploration on the Island. The Buttle Lake Uplift contains Westmin's volcanogenic Kuroko - type massive sulphide deposits which also carry gold and silver. Here the Cowichan - Horne Lake belt contains past producers of the Mount Sicker area (including the recently discovered Abermin's Lara prospect and others), as well as the old Mount McQuillan/China Creek camp containing numerous vein type Au - Ag deposits and prospects (eg. Mineral Creek, Black Panther, Havilah, Golden Eagle, Regina, etc.), and also massive sulphide deposits (eg. old Thistle Mine).

On the Bain 3 and 4 claims, previous work had inferred that favourable Sicker Group rocks existed in the east half of

Bain 4 with Island intrusives virtually encompassing all of Bain 3 and a wedge of Nanaimo Group Sediments occurring between the two. Unfortunately, the 1989 program was not designed to confirm the presence of these rock units nor the establishment of outcrop perimeters. Intermediate volcanics (andesite) were prevalent in the areas explored. Occasionally quartz veins or sweats were observed but none had any size significance or continuity.

7) Geochemistry Results

Assessment work was carried on the property between November 12, 1989 and November 20, 1989 by two field personnel employed by Mingold Resources Inc. The 1989 programme produced 198 soil samples with all the samples coming either from a road traverse or from a grid established in the northeast corner of the Bain 4 claim. The programme was designed to target areas of anomalous values located by previous operators. A road traverse along a road cutting across the claims was undertaken to cover a broad area of ground that had previously not received much attention. well, a grid measuring 1300m (north) x 400m (east) was established to cover anomalous targets. In total, 59 soils from the road traverse and 139 soils from the grid were obtained during the 1989 geochemical programme. The reader is referred to Appendix I for the sample preparation and analytical techniques employed.

The purpose of the soil sampling programme was to detect mineralization by taking subsurface soils across suspected structural trends or favourable geology. All road samples were taken every 100m on the upslope side of the road so as to avoid contamination effects from road construction. established grid in the northeast corner of the Bain 4 claim, the baseline was run north-south with samples taking along the baseline every 50m and wing lines were established every 100m Sample stations along the wing lines extending to the east. were established every 50m. A grubhoe was used to sample B horizon soils between 5-70cm depth. The samples were placed in high strength kraft paper bags and shipped to Coastech Analytical Services Laboratory of 80 Niobe St., N. Vancouver for analysis. The analytical results are included in this report in Appendix 1 and appear on Figures 4a to 4d.

Trends

Spot anomalies were located along the road traverse as well as on the grid. In many instances there were multielement anomalous values obtained from the same sample location. Surprisingly, from all sample locations, both lead and arsenic values were extremely low to non-detectable. This is particularly odd for arsenic given the fact that there are reported arsenopyrite showings in the area and that it is not an uncommon mineral for this suite of rocks.

Along the road traverse the more noteworthy samples which require additional investigation, are samples R1, R21, and R57

which are multi-element stations anomalous in Au, Cu and Zn. R4, 5, 16, 17, 34, and 37 all yielded anomalous Au values. R1 and R5 in particular are very high. R11-15, 18, 19, and R32 yielded elevated, albeit unspectacular, values in Zn. And finally, samples R47, 48, and R59 had elevated Cu values.

Analytical results from the grid established on the northeast corner of the Bain 4 claim were also inconclusive. Anomalous values were more sporadic in the lower half of the grid than in the upper half where a NW trend is identifiable. Before any conclusions are to be made it should be noted that samples collected at 4+00N, 1+00E to 4+00N and 2+50E and 5+00N, 1+50E, all of which contain elevated gold values, come from an outwash along some very steep topography and may only represent disperson from a narrow vein. On lines 7+00N north to 13+00N, anomalous values, particularly in copper, were continuous to the east, however, eastern extensions of these lines, which would be recommended, is impractical because most lines terminated in cliffs and hazardous topography.

Singular noteworthy sample locations on the grid are as follows along with the corresponding anomalous values:

```
0+00N 1+00E Au: 73 ppb

1+00N 2+50E Au: 73 ppb

2+00N 0+00E Au: 207 ppb

2+00N 3+00E Au: 87 ppb

6+00N 4+00E Au: 127 ppb As: 15 ppm

8+00N 0+00E Au: 130 ppb Ag: 0.8 ppm

0+00N 3+50E Cu: 181 ppm

2+00N 0+00E Zn: 118 ppm

1+00N 4+00E As: 50 ppm
```

These occur in random order with no distinguishing patterns. More importantly is the northeast corner of the grid from lines 8+00N to 13+00N there is very definitely a NW trend to the copper values. This area is particularly enriched in copper (relative to other sample locations); as well some gold and zinc values occur. This area warrants further follow-up.

8) Conclusions and Recommendations

The 1989 soil sampling programme on the Bain 3, 4 claims yielded relatively disappointing results. Most of the values were low and only one, weak NW trend on the grid was discernable. The property still remains largely unexplored and several spot anomalies in gold, copper and zinc remain unanswered. As well, to date, no attempts have been made to conduct a concerted geophysical programme on the property. The Bain 3 and 4 claims require some additional follow-up to assess the economic geology potential.

Additional work on the claims should consist of the following:

- 1. Follow-up of spot anomalies from soil geochemistry to determine the origin and significance.
- 2. Prepare a detailed geological map on the grid established during 1989 by Mingold.
- 3. Perform VLF-EM and magnetometer geophysics on the grid.
- 4. Prospect other portions of the property in an attempt to locate additional targets of significance.

At any stage of future work on the property that encouraging results are obtained, blast trenching followed by diamond drilling would be recommended.

Statement of Costs 9)

Project: Bain 3, 4 Claims; Mingold Resources Inc.

<u>Personnel</u>	
Project Geologist, 9 days @ \$175.00/day	\$1,575.00
Field Technician, 7.5 days @ \$175.00/day	\$1,312.50
Transportation	
Truck Rental, 6 days @ \$50/day	\$ 300.00
Fuel	\$ 200.00
Assays Soil Samples, 198 @ \$14.75 per	\$2,920.50
Meals & Accommodation 7 days @ \$80.00/day	\$ 560.00
	4 202 50

\$9,145.50 Total Expenditures

10) References

- Laanela, H., 1986: Preliminary Report on the Bain 1-4 Claims; private report for Ashworth Explorations Limited.
- Leriche, Peter, 1987: Geochemical Assessment Report on the Lynn Claim Group, Vancouver Island, B.C. for Ashworth Explorations Limited.
- Muller, J.E., 1980: The Paleozoic Sicker Group of Vancouver Island, B.C.; Geol. Survey of Canada Paper 79-80.
- Northern Miner, 1986-1989, Various Issues.

11) Statements of Qualifications

I, George E. Nicholson do hereby certify that:

- I am a geologist with principal residence at #406-2020 1) West 2nd Avenue, Vancouver, B.C.
- 2) I am a graduate of the University of British Columbia, B.Sc. Geology, and have worked in B.C. and the Yukon since 1983.
- 3) I am a member in good standing of numerous mining organizations including the Association of Exploration Geochemists and the Northwest Mining Association.
- 4) I was employed by Mingold Resources Inc. to assist on a work program on the Bain 3 and 4 mineral claims optioned by them on Vancouver Island, B.C.
- 5) I have no interest, direct or indirect, in the Bain Claims nor with any of the owners nor do I expect to receive any such interest.
- This report may be used by Mingold Resources Inc., in 6) whole or part, as they so require.

Dated at Vancouver, British Columbia, this 27th day of December, 1989.

Honge K. Nicholon B.Sc.

- I, John A. Nicolson do hereby certify that:
- I am a geologist with principal residence at #406-2020
 West 2nd Avenue, Vancouver, B.C.
- 2) I am a graduate of the University of British Columbia,
 B.Sc. Geology, and have worked in several areas of Canada
 since 1981.
- 3) I am a member in good standing of numerous mining organizations including the Geological Association of Canada and the Prospectors and Developers Association.
- 4) I was employed by Mingold Resources Inc. to supervise a work program on the Bain 3 and 4 mineral claims optioned by them on Vancouver Island, B.C.
- 5) I have no interest, direct or indirect, in the Bain Claims nor with any of the owners nor do I expect to receive any such interest.
- 6) This report may be used by Mingold Resources Inc., in whole or in part, as they so require.

Dated at Vancouver, British Columbia, this 27th day of December, 1989.

John A. Nicholson B.Sc.

Appendix I Sample Results and Analytical Procedures

Sample Preparation and Analytical Technique

The field sampling technique is unique to each type of sample involved and is described under the respective sections below. The sample preparation described under this section pertains only to Coastech Lab's handling of the samples once they are received from the field.

All soil and silt samples are dried at 90°C and then screened to -80 mesh and mixed. Rock samples are dried at 105°C, crushed to 1/8" (5 mm) size and split in a Gilson riffle to a 250 gram sample. This portion is then pulverized to -100 mesh in a ring grinder and mixed. The prepared soil, silt and rock samples are then assayed using two different analytical techniques - one for gold and the other for all other elements.

The analytical technique for all gold assays involved fusing a 30 gram sample with a PbO flux. The resulting cupelled beads are parted with HNO_3 . If less than 0.35 mg of gold is present the separated bead is put into an aqua regia solution and analyzed by A.A. If more than 0.35 mg of gold is present then the separated bead is weighed by conventional gravimetric methods. A control and blank sample are run with each fusion.

For elements other than gold, a 0.5 gram sample is digested with 5 ml of HNO₃ on a hot water bath for one hour. 10 ml of HCl is then added and digestion continues for another two hours. The solution is then allowed to cool, diluted to 25 ml with distilled water and analyzed on a standard ICP unit. Each run contains a known control sample.

To:

HINGOLD RESOURCES INC.

Suite 405 - 470 Granville Street

Vancouver, BC

V6C 1V5

Date:

December 8, 1989

Invoice No. Order No.

C12A051 95508

Project No.

95508

Attention:

Ed Yarrow

PAGE 1 OF 13

CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

	AMOLE	i Au		Ag	i As	Cu	i Hg	l Mo	Pb :	Sb	W	Zn
	ianple 	ppb	; ;	ppe	ppe	ppe	ppe	l ppe	ppm	ppe	pps	ppm
BL	0+00	, ;	, (5 :	⟨0.2	· <5	21	; <1	; <1	6	⟨5 ⟨	(10	42
	0+50	:	7 :	⟨0.2	1. (5	1 4	! <1	1 (1	: 2 :	₹5	(10	36
	1+00	1	20 :	⟨0.2	l (5	: (1	! (1	1 (1	: <2 :	(5	(10	26
	1+50	1	(5 :	⟨0.2	: <5	12	1 (1	(1	: 6:	⟨5	(10	48
		:	:	}	;	;	;	•	: :	!	}	}
	2+00	; 2	07 :	<0.2	! <5	: 65	! <1	! (1	10 1	₹5	<10	118
	2+50	:	(5	⟨0.2	! <5	: 21	i (1	(1	: 4:	(5)	- <10	66
	3+00	;	(5 :	<0.2	: <5	: 2	1 (1	! (1	1 4 1	〈5 :	(10	56
	3+50	1	(5 :	(0.2	1 (5	: 39	! (1	1 (1	: 6:	(5)	<10	66
		ŀ	;	!	ŀ	;	:	;	: :	}	1	1
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	4+50	;	(5 :	⟨0.2	! <5	1 56	1 (1	! (1	1 6	〈5	(10	84
	5+00	ł	(5	⟨0.2	ł (5	1 59	1 (1	(1	1 8 1	⟨5	(10	84
	5+50	1	7 :	⟨0.2	! <5	1 35	! (1	! (1	1 6	(5	: <10	54
		1	1	}	1	1	1	1	1 1		!	i
	6+00	1	(5	⟨0.2	: <5	1 22	1 (1	1 (1	! <2 !	(5	(10	52
	6+50	i	(5)	0.2	: <5	; 31	1 (1	! (1	1 4 1	₹5	(10	69
	7+00	1	(5)	0.4	: <5	74	1 (1	1	1 6	< 5	<10	92
	7+50	1	27	0.4	: <5	; 7	1 (1	! (1	1 2	〈5	10	58
		!			.l	.	.	.i	I			l

To:

NINGOLD RESOURCES INC.

Suite 405 - 470 Granville Street

Vancouver, BC

V6C 1V5

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C12A051 95508

Project No.

Date:

95508

Attention:

Ed Yarrow

PAGE 3 OF 13

CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

CAMOLE	i Au	Ag	l As	! Cu	Hg	Mo	Pb :	Sb !	W :	Zn
SAMPLE	ppb	pp a	ppm	ppa	ppe	ppa	ppm :	ppe	ppa :	ppe
R6	; ; <5	⟨0.2	; :	: 28	(1	(1	10 ;	; {5 }	i (10 !	20
R 7	l (5						26 1	(5 !		96
R8	ł (5									
R9	: 2607	(0.2	: <5	16	(1)	(1)	10 ;	<5 :		
	:	•	:	{		:	:	:	;	
R10	; (5	<0.2	; ⟨5	12	(1)	(1)	10 :	(5 	<10 ¦	40
R11	! (5)	⟨0.2	: <5	42	(1)	(1)	22 1	(5 	<10 ¦	144
R12	; 100	⟨0.2	: <5	14	(1)	(1)	18 ;	(5 :		112
R13	1 (5	(0.2	(5	6	(1)	(1)	14 :	⟨5 ¦	⟨10 ¦	124
	1	}	!	l		!	:	:	:	
R14	: <5	<0.2	(5	24	(1	(1	18 :	⟨5 ¦	(10 	128
R15	1 7880	(0.2	: <5	28	(1)	(1)	18 :	⟨5 ¦	<10 ¦	118
R16	: 35	(0.2	: <5	42	(1)	(1)	14 1	(5 :	(10 :	86
R17	: 560	(0.2	: <5	18	(1)	(1)	10 1	(5 :	<10 :	78
	1		1	!		: :	;	:	:	
R18	: 70	(0.2	: <5	40	(1)	(1)	22 1	(5 	(10)	126
R19	: 30	(0.2	: <5	32	(1)	(1)	16 ;	⟨5 ¦	<10 ¦	94
R20	1 25	(0.2	; ⟨5	(1)	(1)	(1)	6 :	(5 :		46
R21	1 340	⟨0.2	: <5	56	(1)	(1)	30 ;	(5 		
	1		1	}	}	: :	:	:	:	

To:

Attention:

MINGOLD RESOURCES INC.

Suite 405 - 470 Granville Street

Vancouver, BC

V6C 1V5

Ed Yarrov

Date:

December 8, 1989

Invoice No. Order No.

C12A051 95508

Project No.

95508

PAGE 4 OF 13

I HEREBY CERTIFY the following results of assays.

CERTIFICATE OF ASSAY

SAMPLE	:	Au	l Ag	i As	l Cu	Hg	Мо	Pb	Sb	W	Zn
ann LL		ppb	ppm	; ppm	ppe	ppe	ppe	ppa	ppm	ppe	ppe
R22	;	15	₹ (0.2	; <5	50	;	<1	10	⟨5	<10	92
R23	+	₹5	(0.2	ł (5	: 20	! <1	(1	8 :	(5	(10	60
R24	1	45	: <0.2	! <5	: 38	! <1	(1	10	〈5	(10	68
R25	1	⟨5	(0.2	1 (5	1 40	! (1	(1	6	₹5	(10	56
	i		:	1	ŧ	:	 	!	}		
R26	;	₹5	(0.2	1 (5	: 58	: <1	(1	44 1	₹5	<10	62
R27	1	⟨5	(0.2	1 (5	: 80	l (1	(1	16	₹5	<10	86
R28	1	⟨5	(0.2	1 (5	52	: <1	(1	12	₹5	<10	56
R29	:	⟨5	: ⟨0.2	1 (5	1 72	1 (1	(1	14 8	⟨5	<10	70
	1		{	1	!	:	1	:	}	!	
R30	1	15	(0.2	! <5	16	(1	(1)	8 8	₹5	(10	40
R31	1	₹ 5	(0.2	! <5	! 18	! (1	(1	: 8	₹5	<10	46
R32	:	⟨5	<0.2	! <5	: 56	1 (1	11	20	₹5	<10	158
R33	:	15	(0.2	! <5	: 76	! (1	(1	6 1	₹5	(10)	50
	1		}	!	!	!	}	:	}		
R34	:	140	(0.2	! <5	52	1 (1	(1)	8 1	₹5	(10	48
R35	:	65	(0.2	ł (5	: 26	: <1	(1	8 1	(5	(10)	36
R36	1	45	(0.2	! 〈 5	: 40	1 (1	(1	6	₹5	(10)	50
R37	:	170	(0.2	1 (5	: 50	! (1	(1)	10	₹ ₹5	(10)	44
		·	l	<u> </u>	!	!		! !		-	

To:

MINGOLD RESOURCES INC.

Suite 405 - 470 Granville Street

Vancouver, BC

V6C 1V5

Date:

December 8, 1989

Invoice No. Order No.

C12A051

95508

Project No.

95508

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Ed Yarrov

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CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

ľ	SAMPLE	A	1	 	Ag	!	As	!	Cu	1	Hg		Но		Pb	!	Sb	!	W	! !	Zn
1	SMIC LE	ppt)		ppm	; p	p a	 	ppm	!	ppæ		ppe		ppm	 -	ppa	 -	pp s	! -:	ppm
1	R38	; 	⟨5	; ;	⟨0.2	;	⟨5	', 	64	'i-	~1	1	(1	, - 	4	;- ¦	⟨5	; -	<10	; —·	58 3
;	R39	:	⟨5	:	⟨0.2	ł	⟨5	ŀ	40	ŀ	⟨1	1	<1	:	8	:	⟨5	!	<10	;	58 1
i	R40	:	65	:	⟨0.2	:	⟨5	:	82	;	⟨1	1	₹1	:	12	Ė	⟨5	!	<10	;	92 1
ŀ	R41	!	55	:	⟨0.2	!	₹5	ł	52	ŀ	⟨1	ļ	(1	:	8	!	⟨5	!	₹10		44 :
:		1		!		ļ		ŀ				:		:		ŀ		;	;	į	;
ŀ	R42	;	⟨5	1	⟨0.2	1	⟨5	i	52	i	(1)	;	₹1	;	8	ŀ	⟨5	!	<10	;	50 1
i	R43	ŀ	⟨5	;	⟨0.2	:	₹5	1	30	ŀ	<1	1	₹1	ŀ	8	ŀ	₹5	ŀ	<10	ŧ	60
¦	R44	i	⟨5	:	⟨0.2	1	⟨5	1	16	ŀ	<1	!	₹1	:	6	1	₹5	ŀ	<10 ⋅	į	38 1
:	R45	:	60	1	⟨0.2	!	₹5	1	92	ļ	⟨1	1	⟨1	:	8	l	⟨5	!	<10	i	56
;		1		:		ŀ		:		ŀ		!		1		ŀ		!		i	1
ŀ	R46	!	⟨5	:	⟨0.2	1	₹5	:	32	ŀ	⟨1	1	₹1	:	6	l	⟨5	ŀ	<10	:	40
:	R47	ł	70	:	⟨0.2	!	⟨5	:	108	ì	<1	1	<1	ŀ	8	ŀ	⟨5	ŀ	<10 ⋅	:	58 8
ŧ	R48	!	5	:	⟨0.2	!	⟨5	:	126	ŀ	₹1	ŀ	₹1	!	6	ŧ	⟨5	l	<10	ŀ	56
i	R49	}	10	:	<0.2	:	₹5	1	36	1	<1	!	<1	ŀ	12	ŀ	₹5	!	<10	•	46
:	}	}		:		!		1		ļ		:		:		!		ŀ		:	:
:	R50	Ì	70	i	<0.2	:	<5	;	62	ŀ	<1	ŀ	<1	!	4	l	₹5	i	<10	i	30
ŧ	R51	1	⟨5	i	<0.2	1	⟨5	1	82	ŧ	<1	:	<1	i	12	ŀ	₹5	ŀ	<10	ŧ	40 8
:	R52	}	45	1	⟨0.2	i	⟨5	:	84	1	<1	ŧ	<1	1	6	ŀ	₹5	i	<10	:	54 8
ŀ	R53	1	⟨5	1	<0.2	ŀ	⟨5	:	94	;	<1	1	<1	!	12	ŀ	⟨5	ŀ	<10	:	40 1
1_				!		!		!_				!_		!_		!_		!_		<u>ا</u> _	8

To:

MINGOLD RESOURCES INC.

Suite 405 - 470 Granville Street

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V6C 1V5

Date:

December 8, 1989

Invoice No. Order No.

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Project No.

95508 95508

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Ed Yarrov

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CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

SAMPLE	•	!	Au	!	Ag :	As	l Cu	- i	Hg :	l No	!	Pb i	Sb	. W	. • -	Zņ
SMULLC	•	 	ppb		ppa	ppm	ppm	-1	ppe	ppm	'i-	ppa	ppe	ppm	:	ppa
R57		-, 	630	1	⟨0.2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	488	-i;	<1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	 	8 1	 √ 5	· <10	- i - 	82
R58		1	⟨5	;	(0.2	<5	: 66	1	(1)	(1	:	4:	₹5	: <10	¦	68
R59		ł	95	:	⟨0.2	₹ ₹5	166	ł	(1)	{1	ŀ	10 ;	<5	(10	;	64
L 0+00N	0+50	1	⟨5	1	⟨0.2	₹ ₹5	: 4	;	(1)	{1	;	12 !	⟨5	(10	ŀ	3
		1		;	;		!	ł	1		;	1		!	ŀ	
	1+00	;	73	1	(0.2	⟨5	: 26	i	(1)	(1	:	8 ;	₹5	{10	;	4
	1+50	1	<5	1	⟨0.2	₹ 5	1 10	ŀ	(1)	(1	;	14 ;	<5	: <10	;	2
	2+00	i	₹5	:	<0.2	⟨5	! <1	ŀ	(1)	(1	¦	2 1	<5	(10	;	1
	2+50	1	10	!	⟨0.2	₹5	: 4	:	⟨1	(1	ļ	4 1	⟨5	: <10	ļ	2
		1		i	1	}	!	;	1	}	ŀ	:		!	:	
	3+00	ŀ	20	!	(0.2	₹ 5	14	ŀ	<1 €	{1	1	10 1	⟨5	(10	¦	1
	3+50	;	75		⟨0.2	₹ ₹5			<1 ∤	l (1	i	16 †	⟨5	(10	i	7
	4+00	;	₹5	ļ	(0.2	<5	: 28	ŀ	₹1 :	(1	;	6 1	<5	: <10	;	6
L 1+00N	0+50	;	27	1	(0.2	₹5	16	ŀ	⟨1	₹ 1	ł	6	⟨5	(10	i	4
		ł		;	ļ		!	ł	1	}	;	t		ŀ	;	
	1+00	1	20	;	(0.2			;	⟨1	(1	ŀ	8 !	⟨5⟩	(10	ţ	4
	1+50	1	5	;	⟨0.2			1	(1)	(1	ŀ	2 :				3
	2+00	ŀ	40	ł	(0.2				(1)	-	ì	8 ;	₹5			5
	2+50	ŀ	73	;	⟨0.2	⟨5	! <1	ł	(1)	(1	i	⟨2	⟨5	: <10	ľ	1

To:

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CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

CAMOI C	i Au i	Ag	As	Cu 	i Hg	l Ho	l Pb	: Sb :	W :	Zn
SAMPLE	ppb	ppm	ppe	ppe	ppm	: ppm	ppm	ppe	pps :	βρ∎
L 1+00N 3+00	27	⟨0.2	⟨5	10	; ;	(1	: 6	·	(10)	48
3+50	1 40 :	⟨0.2	₹5	12	1 (1	1 (1	: 4	(5)	<10 ¦	32
4+00	27 :	⟨0.2	50	28	; (1	(1	: 6	(5)	⟨10	40
L 2+00N 0+50	: 20 ;	⟨0.2	₹5	: 14	1 (1	! <1	: 2	! <5	⟨10 ;	82
	: :			!	!	1	:	: :	:	
1+00	: (5 :	(0.2	(5	63	(1	! (1	1 64	: <5	(10)	80
1+50	20 1	(0.2	⟨5	: 30	! (1	: <1	: <2	! (5	<10 i	44
2+00	20 1	(0.2	₹5	1 4	! <1	1 (1	1 (2	: <5	<10 l	26
2+50	20 1	(0.2	₹5	! <1	1 (1	! (1	! <2	: <5	<10 l	12
	: :	1		:	!	l	!	: :	1	
3+00	: 87 :	(0.2	₹5	84	! <1	! (1	1 4	: <5 :	⟨10 ¦	38
3+50	107 :	<0.2	⟨5	82	! (1	1 (1	: 6	: <5 :	<10 :	44
4+00	: <5 :	⟨0.2	₹5	12	! <1	! (1	1 64	: (5)	<10 :	44
L 3+00N 0+50	: <5 :	⟨0.2	(5	10	! <1	1 (1	: 8	: (5)	<10 :	40
	: :			:	!	!	1	:	:	
1+00	: 40 :	⟨0.2	(5	51	(1	1 (1	: 8	: <5	(10	88
1+50	13 1	(0.2	₹5	25	: <1	1 (1	1 1 4	: (5 :	<10 :	38
2+00	: 27 :	⟨0.2	₹5	: 2	1 (1	1 (1	! <2	: <5	<10 ∤	12
2+50	: 5:	⟨0.2	< 5	: (1	1 (1	! (1	: <2	(5	<10 :	4

To:

MINGOLD RESOURCES INC.

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CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

CAMDI	-	!	Au	1	\ g	l As	! Cu	l Hg	i Mo	l Pb	: Sb	: W ;	Zn
SAMPLI	.	i	ppb	. pr) a	. ppa	ppe.	ppa	ppe	: ppa	ppm	ppa !	ppe
L 3+00N	3+00	-,-	30	;	(0.2	. <5	1 (1	(1	; <1	;4	; <5	<10 ·	8
	3+50	i	⟨5	: <	0.2	! <5	1 (1	! <1	l (1	: 4	: <5	: <10 :	6
	4+00	;	<5	: <	0.2	! <5	1 (1	! <1	! (1	: <2	! <5	! <10 :	12
L 4+00N	0+50	!	27	;	0.2	! <5 :	! . 9	; <1 ;	; <1 ;	8	! (5 !	(10 	32
	1+00	:	93	: <	0.2	: <5	145	: <1	: (1	8	(5	: <10 :	58
	1+50	1	167	: <	0.2	: (5	: 41	: (1	: (1	4 :	(5	: <10 :	30
	2+00	1	300	: <	0.2	! <5	110	1 (1	! <1	: 6	(5)	! <10 !	54
	2+50	ŀ	87	: <	0.2	: <5	71	! (1	! (1	2	⟨5		38
		i	1	•		:	:	:	:	!	!	: :	
	3+00	ł	25	: <	0.2	ł (5	1 34	1 (1	l - (1	: 4 :	₹ 5	: <10 :	28
	3+50	1	33	: <	0.2	l (5	! (1	! (1	: <1	⟨2	(5	: <10 :	16
	4+00	ŀ	₹5	! (0.2	l (5	1 13	! <1	: (1	(2	(5	! <10 !	36
L 5+00N	0+50	 	⟨5	!	0.2	¦	13 	: <1		! 8 ! !	(5	! <10 ! ! :	34
	1+00	:	30	: (0.2	: <5	1 (1	! (1	(1	⟨2	(5	: <10 :	18
	1+50	1	40	: <	0.2	¦	30	! (1	: (1	{2	(5	: <10 :	20
	2+00	1	₹5	: <	0.2	! < 5	25	! (1	(1	2	(5		
	2+50	!	27	! !	0.4	! (5 !	i 119	! (1 !	! (1 !	6	(5	{10 !	70
-		_'		·—		•	'	'	·	'	•	·	

To:

MINGOLD RESOURCES INC.

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CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

SAMPLE	.	i	Au	1	Ag	!	As	Cu	1	Hg	!	Mo !		Pb :	Sb	;	W	1	Zn
JANIT L	.	, - ; -! -	ppb	1	ppa	 -	ppe	ppa	1	ppa	!	ppe	_	ppe	ppe	- i · - !	ppe	i -	pp a
L 5+00N	3+00	-1	⟨5	;	⟨0.2	!	(5)	13	!	~1	! :	; ⟨1 ¦		6 1	√5	- i ·	<10	 -	34
	3+50	:	⟨5	ŀ	<0.2	ŧ	₹5	20	1	<1	:	(1:		6 1	₹5	;	<10	:	54
	4+00	;	⟨5	ŀ	<0.2	!	(5)	35	į	<1	!	(1:1		2 1	⟨5	;	<10		40
L 6+00N	0+50	1	⟨5	;	(0.2	!	⟨5 ¦	9	•	⟨1	:	(1:		4 1	⟨5		<10		32
		ŀ		ł		ŀ	į	}	:		ŀ	:	1			i		:	
	1+00	1	⟨5	ļ	<0.2	:	₹5 1	54	ŀ	⟨1	ŀ	<1 ;		6 1	₹5	i	<10	ŀ	52
	1+50	ŀ	⟨5	ŀ	<0.2	1	(5)	69	;	<1	į	(1		4:	₹5	ŀ	<10	!	42
	2+00	ŀ	5	i	0.2	1	⟨5	28	ļ	₹1	ŀ	(1)		8 :	⟨5	ł	<10	!	52
	2+50	!	5	ŀ	⟨0.2	ŀ	(5)	18	ļ	<1	:	(1:		⟨2 ¦	⟨5	ŀ	<10	ŧ	20
		1		;		1	:	}	i		!	;		;		1		ŀ	
	3+00	•	420	i	⟨0.2	ŀ	⟨5 ¦	7	ŧ	<1	i	(1:1		4:	⟨5	ł	₹10	¦	32
	3+50	1	₹5	ŀ	<0.2	;	⟨5 ¦	64	ł	<1	!	(1 :		4 :	⟨5	ł	<10	;	32
	4+00	ŀ	127	ŀ	<0.2	;	15	124	ŧ	<1	ŀ	<1 t		4 1	₹5	i	<10	ŀ	76
L 7+00N	0+50	1	20	ŀ	0.6	;	₹5 :	89	ł	<1	:	1 1		10 :	₹5	ŀ	<10	i	98
		1		:		;	- 1	}	ŀ		ŀ	;		!		ŀ		i	
	1+00	ŀ	⟨5	i	<0.2	:	⟨5 ;	40	ł	<1	ŀ	(1		8 :	₹5	i	<10	į	58
	1+50	:	₹5		0.8	:	⟨5 ¦		ł	⟨1	i	<1 l		8 ;	₹5	!	<10	ł	52
	2+00	1	27		0.6	:	⟨5 ¦	24	1	₹1	•	(1)		6 ;	<5	;	<10	ŧ	28
	2+50	ŀ	13	1	<0.2	!	₹5 ¦	16	ŀ	₹1	ŀ	(1)		6 1	₹5	i	<10	;	30
		. _		!_		!_					!_	;	_	1		_!		!_	

To:

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Suite 405 - 470 Granville Street

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95508 95508

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Ed Yarrow

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CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

SAMPLE	l Au	l Ag	! As	! Cu	! Hg	i No	Pb :	Sb :	W ;	Zn
SAULTE	: ppb	ppe	ppa	ppm	ppe	ppm	pp a	ppe	ppe	ppe
L 7+00N 3+00	(5	; ⟨0.2	;	;3	;	; -	;; : 4	⟨5	<10	18
3+50	1 7	0.2	ł (5	91	: (1	! (1	: 4:	(5)	<10 :	28
4+00	! <5	₹ ⟨0.2	! <5	: 69	! (1	: <1	: 4:	(5)		
L 8+00N 0+50	! <5	(0.2	: <5	17	(1	! (1	! 10 !	(5)	<10 !	54
	;	!	!	;	;	:	: :		:	
1+00	10	(0.2	l (5	38	(1	(1	(2)	⟨5 ¦	(10)	34
1+50	1 40	(0.2	: <5	; 7	: <1	: <1	{2 }	⟨5 ¦	(10)	26
2+00	1 30	(0.2	: <5	: 5	: <1	: <1	(2 :	⟨5 ¦	(10 1	
2+50	20	1 0.4	: <5	57	! (1	: (1	4 :	⟨5 ;	(10)	214
	1	:	1	! !	: ·	ł			:	
3+00	1 13	(0.2	(5	36	(1	(1	2 1	⟨5 ;	{10 }	116
3+50	13	(0.2	(5	95	(1	(1	(2	⟨5 ¦	(10)	48
4+00	1 85	(0.2	(5	142	(1	: (1	(2	⟨5 ¦	<10 t	38
4+50	1 93	(0.2	₹	170	(1	: (1	⟨2	(5 :	(10 :	26
	1	!	!	ł	ľ	!		1	1	
L 9+00N 0+50	: 30	(0.2	: <5	23	(1	(1	2 1	⟨5 ¦	<10 ¦	62
1+00	15	<0.2	(5	32	(1	(1	8 :			76
1+50	i (5	(0.2	⟨5	14	(1	(1	4 1	(5 :		84
2+00	1 33	(0.2	(5)	11	(1	(1	12 1	(5 :		72
	!	!	!	!	!	!	l	:	:	

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CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

ppb :	pp a			:					
	hhm (pp a	ppa	ρρe	ppe	ppm	ppm	ppa	ppæ
60	⟨0.2	₹5	26	(1	; :	2	⟨5	<10 l	120
⟨5 ¦	0.4	⟨5	39	(1	: <1	(2)	(5	: <10 ¦	174
60 :	(0.2	₹5	92	: <1	! (1	. 4	〈 5	(10 :	102
65 1	(0.2	(5)	184	(1	1 (1	2	(5	: <10 :	74
:	1	}	ŀ	1	:	:	}		
40 :	⟨0.2	⟨5	187	(1	: <1	{2 }	⟨5 │	· <10	5
25 :	⟨0.2	₹5	63	(1	(1	(2)	(5)	: <10 :	8
35	0.6	(5	86	(1	: <1	10	₹5	: <10 :	10
13 :	(0.2	₹5	88	: <1	: <1	4 1	(5)	: <10 :	11
ł	1	}		;	!	:		; ;	
80 :	(0.2	(5)	118	(1	(1	2 9	₹5	{10 }	8
(5 :	(0.2	⟨5	90	(1	(1	2	₹5	: <10 :	8
(5 :	⟨0.2	⟨5	15	: (1	{1	4 1	(5)	(10 :	8
(5 :	0.2	₹5 :	12	! (1	: (1	6	(5	: <10 :	10
:	1	}	'	ł	:	:	;	1	
⟨5 ¦	⟨0.2	₹5	12	: <1	! (1	. 4 :	⟨5 ∣	: <10 :	8
(5 :	0.4	(5)	24	: (1	: (1	4 :	⟨5	: <10 :	5
(5 :	⟨0.2	(5)	25	: (1	(1	: 6	〈5 :	(10	7
⟨5 ¦	⟨0.2	₹5	79	(1	l (1	. 2	(5	(10	8
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To:

MINGOLD RESOURCES INC.

Suite 405 - 470 Granville Street

Vancouver, BC

V6C 1V5

Date:

December 8, 1989

Invoice No. Order No.

C12A051 95508

Project No.

95508

Attention:

Ed Yarrow

PAGE 12 OF 13

CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

CAMDIC		l Au	: -1-	Ag	As .	: Cu	i Hg	!	i No	1	Pb	Sb	;	W	!	Zn
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To:

MINGOLD RESOURCES INC.

Suite 405 - 470 Granville Street

Vancouver, BC

V6C 1V5

Date:

December 8, 1989

Invoice No. Order No.

C12A051

95508

Project No.

95508

Attention:

Ed Yarrow

PAGE 13 OF 13

CERTIFICATE OF ASSAY

I HEREBY CERTIFY the following results of assays.

SAMPLE	Au	Ag	As	Си	l Hg	l Mo	Pb :	Sb	W	Zn
SMW LC	ppb	ppe	ppm	ppm	ppa	ppm	ppa	ppm	ppe	ppa
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4+25	87 :	(0.2	〈5)	223	: (1	: <1	: <2	(5)	<10 :	68
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To:

HINGOLD RESOURCES INC.

Date:

December 13, 1989

Suite 405 - 470 Granville Street

Vancouver, BC

Invoice No.

C12A051 RECHECKS

VSC 1V5

Order No. Project No.

95508 95508

Attention:

Ed Yarrov

check samples

CERTIFICATE

1 MEREBY CERTIFY the following results of assays.

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Appendix 2 Claim Records

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APPLICATION TO RECORD A MINERAL CLAIM.	(2)1(g	SI Adic	o. <u>}</u>	Way, Whis	BA	VALID SUBSISTIN	Marine Dr.	W. Van . BC ,8307 MINERAL CLAIM
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