

**ASSESSMENT REPORT**

for the

**EXPLORATION WORK**

on the

**DM 1-8  
QUARTZ MINING  
CLAIMS  
(YB66276-YB66283)**

**WHITEHORSE,  
YUKON TERRITORY**

**NTS 105 D/11  
ZONE 8  
LATITUDE 60-44 N  
LONGITUDE 135-10W**

between

**SEPTEMBER, 1996  
SEPTEMBER, 1997**

**WHITEHORSE MINING DISTRICT  
YUKON TERRITORY**

by

**JOSEPH A. J. CLARKE**

for

**SID McKEOWN  
WHITEHORSE, YUKON  
MARCH, 1998**



**093895**

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 4000.00.

*M. Burkh*  
Regional Manager, Exploration and  
Geological Services, Commissioner  
of Yukon Affairs

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## **INTRODUCTION**

This report describes the exploration work carried out on the DM 1-8 claims, located in the City of Whitehorse, Yukon, between June, 1996 and September, 1997. The claims cover an area of Upper Triassic Lewes River Group limestone, sandstone, and siltstone intruded by mid-Cretaceous quartz monzonite and granodiorite. Rock assays returned results as high as 18% Cu and 1827 ppb Au. Mineralization is typical of silicate and Fe-rich skarns of the Whitehorse Copper Belt but may include bulk tonnage, low grade Au mineralization. The work consisted of one day of trenching with a wheeled loader, one day of hand trenching, minor blasting, two days of prospecting, 200 m of flagged line, and the assaying of eight rock samples. The total value of exploration expenditures for 1997 is \$4000.00.

## **LOCATION, AND ACCESS**

The DM 1-8 claims are located in the City of Whitehorse, Yukon Territory, east of the Alaska Highway at the crossing of McIntyre Creek. The Fish Lake Road crosses NE-SW along the center of the claim group. The historic Copper King Mine is located 0.5 km east of the claims. Access is possible by car or truck to most areas of the claims.

## **TOPOGRAPHY, CLIMATE**

The DM 1-8 claims occupy a 1km wide valley of Porter and McIntyre Creeks. The elevation of the valley floor is 2500 feet. The north side of the valley rises steeply from the valley floor to an elevation of 3500 feet. Outcrop exposure is approximately 25%.

The climate of the area varies from a high of +30C in the summer to lows of -40C during the winter. Typical are long hot summers (May to September) with up to 18 hours of daylight and moderate to harsh winters (October to April) with less than 7 hours of daylight.

Black spruce is the most common tree species in the area. These favor the NE side of valleys and are a common indicator of local permafrost. More exposed areas have a mixture of white and black spruce with occasional pine. In the most exposed areas aspen colonies are well established. Willows are abundant in the valleys and low areas.

## **EXPLORATION HISTORY**

Copper mineralization was reported in the Whitehorse area by miners traveling to the Klondike in 1897. Mr. Jack McIntyre staked the Copper King claim in 1898. Ore was first shipped from the Copper King in 1900. Prospecting in the area generated many mines including the; Arctic Chief, the Pueblo Mine, the Little Chief, War Eagle and others. Mining, milling, the shipping of copper ore continued till the 1980's. Total production from 1898 to 1982 was 10,130,000 tonnes grading 1.5% Cu.

## **REGIONAL GEOLOGY**

The Whitehorse Copper Belt is located in the Whitehorse Trough a subdivision of the Intermontane Belt. The Whitehorse Trough is a NW trending Island Arc Complex containing clastic and carbonate rocks ranging from upper Paleozoic to Jurassic. Rocks of the Triassic Lewes River Group and lower Jurassic Laberge group are found in the Whitehorse Copper Belt. A Cretaceous quartz monzonite to granodiorite batholith intrudes to the west resulting in the significant copper skarn mineralization of the Whitehorse Copper Belt.

## **PROPERTY GEOLOGY AND EXPLORATION**

Rocks of three units are exposed on the property (see fig 3). TR97-1 and TR97-2 were excavated with a wheeled loader and cleaned of debris by hand. A small amount of blasting was done. Representative grab samples were taken after cleaning of trenches. TR97-1 is located 100m WNW of TR96-1 and exposed rocks of unit LBI with moderate copper mineralization. Sample DM6-2 and DM8-1 returned values of 1788 ppb Au and 1827 ppb Au. A weak positive correlation with bismuth occurs. TR97-2 is located adjacent to the Porter Creek fault and exposed unit Kw. No significant gold or copper values were returned. An old trench located mid way between TR97-1 and TR97-2 was discovered by prospecting, cleaned by hand and sampled. Sample MB returned no significant gold or copper values but returned 13% iron.

Flagged lines were run to tie 1997 trenches to local geographic features. Prospecting was also carried out in order to determine areas of future trenching.

## **CONCLUSIONS and RECOMMENDATIONS**

Assays to date taken from the DM claims have shown that significant copper and gold mineralization occurs. This mineralization may occur as a skarn or low-grade bulk tonnage deposit type. Future work must focus on exposing mineralization along the limestone/granite contact. The following program is recommended;

### **Phase One**

- A baseline should be cut and picketed parallel to the claim line with cross lines cut at 200 m intervals extending to the edge of the claim group.
- A mag/vlf survey should be performed at 12.5 m intervals.
- Geological mapping should be conducted over the entire property.
- Further mechanical and blast trenching should be done over areas with significant or potential mineralization.
- The above data should be compiled along with historic work and potential drill targets determined.
- A transit should be used to survey in all topographic, legal, and geological features.

**Estimate cost of work; \$30,000**

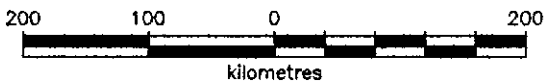
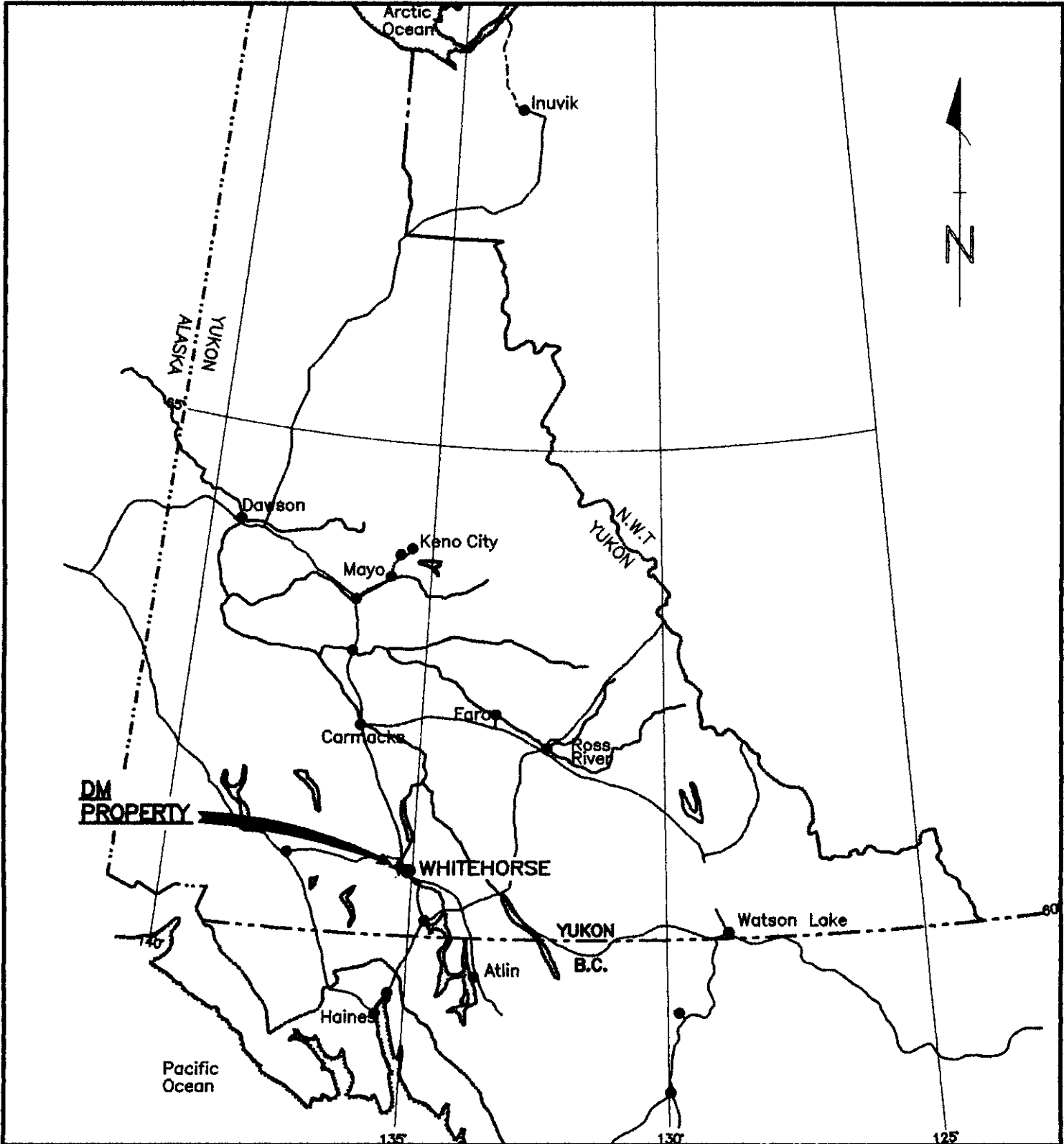
### **Phase Two**

- Further geophysical survey with HEM or IP methods.
- Further mechanical and blast trenching.
- Potential targets should be drilled by diamond or reverse circulation drilling.
- Project data to date should be reviewed by independent consultant.

**Estimated cost of work; \$100,000**

## **APPENDIX I**

### **LIST OF FIGURES**



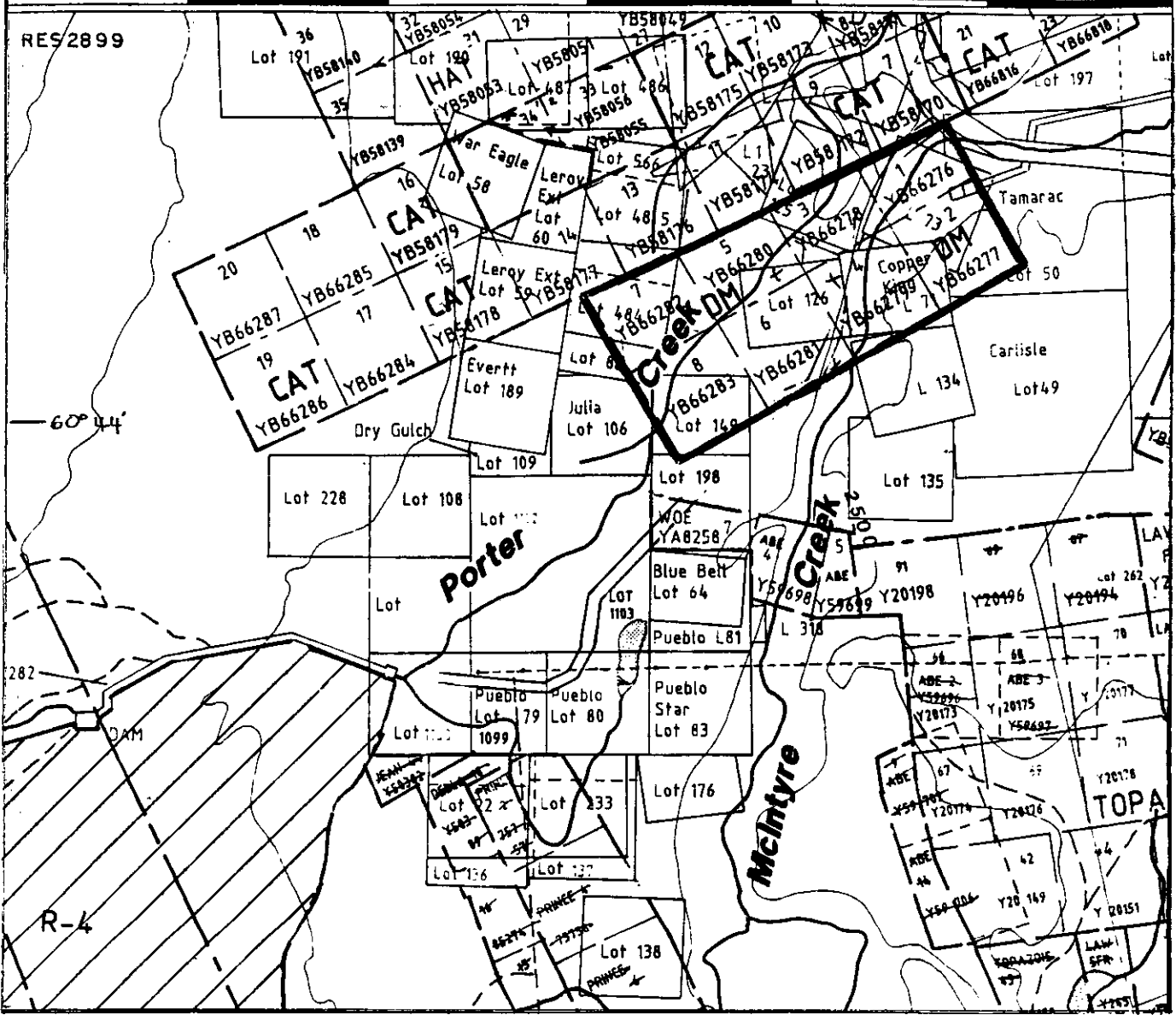
**SIDROCK EXPLORATIONS**

**DM 1-8**

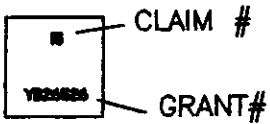
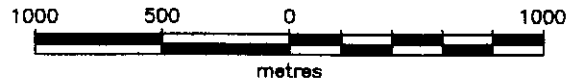
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

**LOCATION MAP**



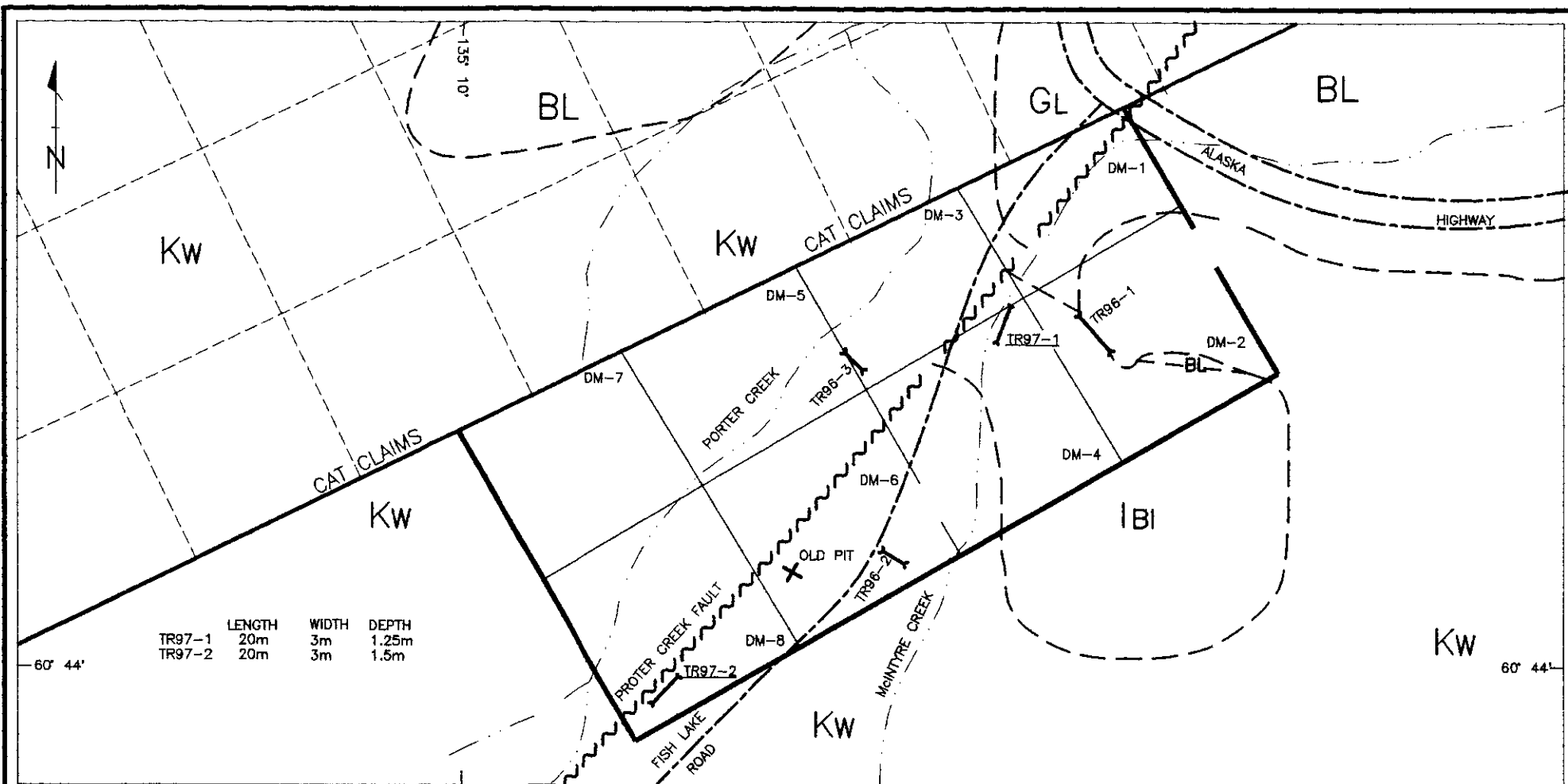


Legend



SIDROCK EXPLORATIONS  
DM 1-8  
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

**CLAIM MAP**



## LEGEND

### LITHOLOGIES

#### MID-CRETACEOUS

**Kw** WHITEHORSE BATHOLITH: BIOTITE-HORNBLEND QUARTZ MONZONITE TO GRANODIORITE.

#### UPPER-TRIASSIC

##### LEWES RIVER GROUP

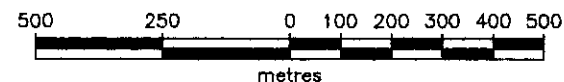
**BI** INTERBEDDED UNIT: LIMESTONE SUB-FACIES.

**GL** GREY LIMESTONE: FOSSILIFEROUS, LIGHT GREY WEATHERING

**BL** PYRITIC SANDSTONE AND SILTSTONE: RUSTY WEATHERING, 2-5% PYRITE, CONTAINS LENSES OF GRIT AND TUFF.

### SYMBOLS

	CLAIM BOUNDARY
	CLAIM LINE
	CLAIM LINE - OTHERS
	CREEK
	ROAD
	FAULT
	GEOLOGICAL CONTACT
	1997 TRENCH
	1997 ROCK GRAB SAMPLES ASSAYS AS SHOWN



### SIDROCK EXPLORATIONS

DM 1-8  
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

## GEOLOGICAL COMPILATION

GEOLOGY AFTER WATSON, 1984

Aurum Geological Consultants Inc. Date: MARCH, 1998  
NTS: 105 D/11 Drawn: JC Scale: 1:15000 Figure: 3

**APPENDIX II**  
**ASSAY RESULTS**

Invoice for Analytical Services

To:

Sid McKeown

Invoice Date: 23/07/97

WO# 07848

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
3	Sample Preparation: Rock/D.C. Sample Preparation	5.00	15.00
1	Analyses: Au + 30	16.00	16.00
2	AAS - Assay (1 elements)	8.00	16.00

Subtotal	47.00
GST @7% (R 121285662)	3.29
Assay Coupons	(\$23.50)
<b>Total due on receipt of invoice</b>	<b>\$26.79</b>

2% per month charged on overdue accounts



23/07/97

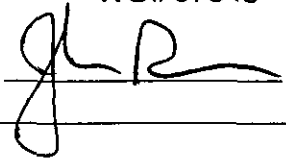
Assay Certificate

Page 1

Sid McKeown

WO#07848

Certified by



Sample #	Au ppb	Cu %
MB	30	
DM4		0.207
DM4 - #2		0.629





INTERNATIONAL PLASMA LABORATORY LTD.

# CERTIFICATE OF ANALYSIS

## iPL 97G0624

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

**Northern Analytical Laboratories**

**1 Samples**

Out: Jul 23, 1997 In: Jul 17, 1997

[062411:38:59:79072397]

Project : W.O. 7848  
Shipper : Norm Smith  
Shipment: PO#: 332332  
Analysis:  
ICP(AqR)30

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B311	1	Pulp	Received as it is, no sample prep.	12M/Dis	OOM/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Comment:

Analytical Summary						Element	Limit	Limit
##	Code	Method	Units	Description			Low	High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9	
02	0711	ICP	ppm	Cu ICP	Copper	1	20000	
03	0714	ICP	ppm	Pb ICP	Lead	2	20000	
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000	
05	0703	ICP	ppm	As ICP	Arsenic	5	9999	
06	0702	ICP	ppm	Sb ICP	Antimony	5	999	
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999	
08	0717	ICP	ppm	Mo ICP	Molydenum	1	999	
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999	
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999	
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9	
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999	
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999	
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999	
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999	
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999	
17	0729	ICP	ppm	V ICP	Vanadium	2	9999	
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999	
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999	
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999	
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999	
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999	
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00	
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99	
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99	
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99	
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99	
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99	
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00	
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00	

### Document Distribution

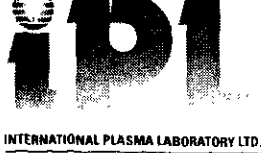
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Whitehorse	DL 3D EM BT BL
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Canada	
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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901

\* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chu



**CERTIFICATE OF ANALYSIS**  
**iPL 97G0624**

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

Client : Northern Analytical Laboratories  
Project: W.O. 7848

**1 Samples**  
1=Pulp

[062411:38:59:79072397]

Out: Jul 23, 1997  
In : Jul 17, 1997

Page 1 of 1  
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
MB	5.3	57	84	10	<	11	<	4	<	<	<	10	62	9	<	116	6	30	<	5	4	<	<	0.04	0.15	13%	<	<	<	<

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01  
 Max Reported\* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 5.00 5.00  
 Method ICP  
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % P=Pulp

Invoice for Analytical Services

To:

Sid McKeown

Invoice Date: 07/07/97

WO# 07828

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
5	Sample Preparation: Rock/D.C. Sample Preparation	5.00	25.00
5	Analyses: Au + 30	16.00	80.00

Subtotal	105.00
GST @7% (R 121285662)	7.35

Total due on receipt of invoice	<b>\$112.35</b>
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2% per month charged on overdue accounts

ASSAY COUPONS (52.50)

NET \$59.85





07/07/97

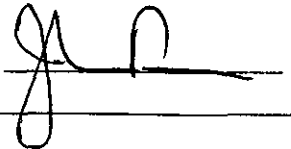
Assay Certificate

Page 1

Sid McKeown

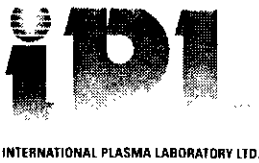
WO# 07828

Certified by



Sample #	Au ppb
DM6 - 1	12
DM6 - 2	1788
DM8 - 1	1827
DM8 - 2	351
DM8 - 3	39





INTERNATIONAL PLASMA LABORATORY LTD.

# CERTIFICATE OF ANALYSIS

## iPL 97G0561

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

**Northern Analytical Laboratories**

**5 Samples**

Out: Jul 08, 1997 In: Jul 02, 1997

[056110:22:31:79070897]

Project : W/O 7828  
Shipper : Norm Smith  
Shipment: PO#: 332320  
Analysis:  
ICP(AqR)30

CODE AMOUNT TYPE PREPARATION DESCRIPTION  
B311 5 Pulp Received as it is, no sample prep.

PULP REJECT  
12M/Dis OOM/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

### Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molybdenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP (Incomplete Digestion)	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

### Document Distribution

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Whitehorse	DL 3D EM BT BL
YT Y1A 2Z7	0 0 0 0 0
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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901  
\* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



**APPENDIX III**

**STATEMENT OF EXPENDITURES**

**Prospecting and Sampling  
Summer 1995**

Loader Rental	23 hr @ \$100/hr	\$2300.00
Blasting Costs	power/plugger rental	\$500.00
Trenching Labor	4 days @ \$150/day	\$600.00
Prospecting	2 Days @ \$150/day	\$300.00
Geochemical Assays	8 Assays	\$162.64
Report Costs		\$200.00
<b>TOTAL COST</b>		<b><u>\$4062.64</u></b>

## APPENDIX IV

### STATEMENT OF QUALIFICATIONS

I, Joseph A. J. Clarke, of Marsh Lake Yukon Territory with mailing address of General Delivery, Whitehorse, Yukon hereby certify:

I am writing this report at the request of Mr. Sid McKeown of Whitehorse, Yukon and have no direct or indirect interest in the DM 1-8 claims;

That I have graduated from the Haileybury School of Mines in 1985 with a diploma in Mining Engineering Technology;

That I have been engaged in prospecting in the Yukon on a full time basis since May of 1993 and have been engaged in prospecting and in the mineral industry for 12 years elsewhere in Canada;

That I have a commitment to prospect in a gentlemanly manner with respect for others who use the land.

Signed at Whitehorse, Yukon Territory on the 17 day of March, 1998.

Joseph A. J. Clarke

## **APPENDIX V**

### **ACKNOWLEDGMENTS**

The Whitehorse Copper Belt: Mining, Exploration, and Geology (1967-1980)  
by D. Tenny  
DIAND Bulletin 1

The Whitehorse Copper Belt - A Compilation  
Exploration and Geological Services Division-Yukon,  
Indian and Northern Affairs, Canada,  
Open File, 1:25000 scale map with marginal notes

Yukon Territory  
Selected Field Reports of the GSC 1898 to 1933  
Compiled and Annotated by H.S. Bostock  
GSC Memoir 284

Thanks also to conversations with the staff of Aurum Geological Consultants Inc., Amerok Geophysics, the staff of the Whitehorse MDA office, and many local prospectors.