MAP NO.:	**ASSESSMENT REPORT** X	**DOCUMENT NO:** 092858	
	PROSPECTUS	**MINING DISTRICT:** WATSON LAKE	
105 B 10, 11, 15	**CONFIDENTIAL** X	**TYPE OF WORK:** Mapping, TRENCHING SAMPLING	
	OPEN FILE		

REPORT FILED UNDER: YUKON YELLOW METAL EXPLORATION LTD.

DATE PERFORMED: various Sept 10-Oct 21 **DATE FILED:** June 27, 1990

LOCATION: **LAT.:** 60°45'N **AREA:** Shootamook Ck.

LONG.: 131°00'W **VALUE $:** 16,000

CLAIM NAME & NO.:
MEL 1-48
DON 1-48
LIN 1-48
BREN 1-16

WORK DONE BY: Larry W. Carlyle

WORK DONE FOR: Yukon Yellow Metal Exploration

DATE TO GOOD STANDING:

REMARKS: Blasthole trenching and sampling was carried out on several areas. Regional stream sediment and rock sampling and regional mapping were also done in the area. Propert consists of Prot. seds to early Camb. metasediments intruded by Cret. Marker Lake Batholith and related stocks. Exploration in the area has concentrated on gold andf tungsten.

Indian and Northern Affairs Canada
Affaires indiennes et du Nord Canada

Geology Section
Indian and Northern Affairs Canada
200 Range Road
Whitehorse, Yukon
Y1A 3V1
Telephone: 403-667-3203
FAX: 403-668-4070

May 4, 1990

Patti McLeod
District Mining Recorder
Box 269
Watson Lake
Yukon
Y0A 1C0

Dear Patti

Dennis Ouellette is taking over the Whitehorse and Watson Lake Mining Districts from Diane for two years starting Monday 7 May. As you know, Diane is on leave for two years.

I am trying to help Dennis by tidying up some loose ends, and one of the main problems concerns the enclosed Oropex reports. I know Oropex carried out a large amount of physical work in 1989 including an airstrip and trenching. If these reports are to be accepted as representing physical work there is no problem. If Oropex requires credit for other than the physical work, the reports are obviously deficient: i.e. no covers!!, no claim map, no list of claims & grant numbers, and the sample locations are plotted at too small a scale to read. After microfilming the sample locations will be lost forever.

Please let me or Dennis know if the construction expenditures cover the amount of credit needed and send the reports back for processing, or ask Oropex to upgrade the report to the minimum standard required by the Schedule of Representation Work for geological and geochemical reports.

Thanks very much

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

M.R. file no.

R.M.M.R. file no.

Date forwarded 29 JUNE 90

TRANSMITTAL FORM

From ▶ Mining Recorder at: LIVINGSTON LAKE

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☐ DIAMOND DRILL LOGS — Claims — Claim sheet no.
- ☒ QUARTZ ASSESSMENT REPORT — Claims: MEL 1-48; DON 1-48; BREN 1-16; LIN 1-48 — Claim sheet no.: 105-B-10, 11, 15

See letter dated 4 May 90 from Trevor.

Type of report: G, Trenching, Sampling — Submitted by: YUKON YELLOW METAL EXPL.

Cls. work performed on: MEL 1-48; DON 1-48; BREN 1-16; LIN 1-48 — $ req. for ren. application: 16000.00

Signature

REPLY ACTION

Date returned August 14/90

Please file previous material concerning trenching details and statement of costs with this report.

Thanks

092058

Signature

802-37 (7-88)

Therm Affairs Program
x 269
:son Lake, Yukon
A 1C0

Date: 14 Aug 90

Time: 9:55

092858

Total number of pages incl. cover page 6

TELECOPIER COVER PAGE

FAX #403-536-7331
PHONE #403-536-7366

: Dennis Ouellette
Geology

om: P.L. McLeod
Mining Recorder, Watson Lake Mining District

DEXED

RECEIVED 8/14/90 Eileen

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

RECEIVED
18 DEC 1989
MINING RECORDER
WATSON LAKE, Y.T.
I.A. & N.D.

Office Date Stamp

APPLICATION FOR A CERTIFICATE OF WORK
FORM 4 (SEC. 53)
YUKON QUARTZ MINING ACT

This form required in duplicate with sketch showing location of work.

(name) Mel Holloway occupation Exploration Executive

(postal address) #16 - 25 Wann Road Whitehorse, Yukon Y1A 4A2

make oath and say that:

I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Mel 1-9 incl. YB 10830 - YB 10838
Mel 11 YB 10840
Mel 13 YB 10842
Mel 15 YB 10844
Mel 17-19 incl. YB 10846 - YB 10848
Mel 33 YB 10862

situated at Shootamook Creek Claim Sheet No. 105 B-15

in the Watson Lake Mining District, to the value of at least 1919.00 dollars,

since the 5th day of January 19 89.

to represent the following mineral claims under the authority of Grouping Certificate No. WA04719 (prev.)
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YB 10830 - YB 10838 Mel 1-9 incl. Renewal f... ...r.
YB 10840 Mel 11 "
YB 10842 Mel 13 "
YB 10844 Mel 15 "
YB 10846 - YB 10848 Mel 17-19 incl. "
YB 10862 Mel 33 "

The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

Work done at various times between Sept. 6/89 and Oct. 21/89
Regional geological mapping and stream sediment and rock sampli...
Rock Blasting Oct. 20/89 on Mel #18 350 yd^3 @ $1.00/yd^3 $350.0

Mobilization	$ 231.95
Room/Board	$ 166.50
Wages	$ 900.00
Equipment Rental	$ 90.00
...logist	$ 125.00
...ys	$ 56.10

Sworn before me at WHITEHORSE, YUKON

this ______ day of DEC 15 1989, 19 ____

[signature]
Notary Public

[signature]
Owner or Authorized Agent

(...88)

Canada

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

RECEIVED
18 DEC 1989
MINING RECORDER
WATSON LAKE, Y.T.
I.A. & N.D.
Office Date Stamp

APPLICATION FOR A CERTIFICATE OF WORK
FORM 4 (SEC. 53)
YUKON QUARTZ MINING ACT

This form required in duplicate with sketch showing location of work.

(name) Mel Holloway, occupation Exploration Executive

(postal address) #16 - 25 Wann Road Whitehorse, Yukon Y1A 4A2

ake oath and say that:

I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Lin 7 - 10 incl.	YB 10980 - YB 10983
Lin 23 - 26 incl.	YB 10996 - YB 10999
Lin 37 - 42 incl.	YB 11010 - YB 11015
Lin 44	YB 11017
Lin 46	YB 11019

situated at Shootamook Creek Claim Sheet No. 105 B-15

the Watson Lake Mining District, to the value of at least 1602.00 dollars,

nce the 5th day of January 19 89,

represent the following mineral claims under the authority of Grouping Certificate No. WA04729 (prel.)
lere list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YB 10980 - YB 10983	Lin 7 - 10 incl. Renewal for 1 yr.
YB 10996 - YB 10999	Lin 23 - 26 incl. "
YB 11010 - YB 11015	Lin 37 - 42 incl. "
YB 11017	Lin 44 "
YB 11019	Lin 46 "

The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

ork done at various times between Sept. 6/89 and Oct. 21/89.
egional geological mapping and stream sediment and rock sampling.

Mobilization	$231.95
Room/Board	$166.50
Wages	$557.50
Equipment Rental	$ 90.00
Geologist	$125.00
Essays	$ 56.10

k Blast on Lin #7 October 20/89 375 yd³ @ $1.00/yd³ $375.00

worn before me at Vancouver, B.C.

DEC 15 1989

his day of , 19

Notary Public

Owner or Authorized Agent

2-33 (7-86)

Canada

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

RECEIVED
18 DEC 1989
MINING RECORDER
WATSON LAKE, Y.T.
I.A. & N.D.
Office Date Stamp

APPLICATION FOR A CERTIFICATE OF WORK
FORM 4 (SEC. 53)
YUKON QUARTZ MINING ACT

This form required in duplicate with sketch showing location of work.

(name) Mel Holloway, occupation Exploration Executive

(postal address) #16 - 25 Wann Road Whitehorse, Yukon Y1A 4A2

make oath and say that:

I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Lin 1-6 incl. YB 10974 - YB 10979
Lin 17-22 incl. YB 10990 - YB 10995
Lin 33-36 incl. YB 11006 - YB 11009

situated at Shootamock Creek Claim Sheet No. 105 B-15

the Watson Lake Mining District, to the value of at least 1600.00 dollars,

since the 5th day of January 19 89.

represent the following mineral claims under the authority of Grouping Certificate No. WA04728 (prev.)
(here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YB 10974 - YB 10979 Lin 1-6 incl. Renewal for 1 yr.
YB 10990 - YB 10995 Lin 17-22 incl. "
YB 11006 - YB 11009 Lin 33-36 incl. "

The following is a detailed statement of such work; (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

Work performed at various times between Sept. 6/89 and Oct. 21/89
Final geological mapping and stream sediment and rock sampling.

Mobilization	$ 231.95
Room/Board	$ 166.50
Wages	$ 597.50
Equipment Rental	$ 90.00
Geologist	$ 125.00
Assays	$ 56.10
Rock Blast on Lin #33 October 20/89 350 yd³ @ $1.00/yd³	$ 350.00

Sworn before me at WHITEHORSE, YUKON

15th day of DEC 1989, 19 .

Notary Public

Owner or Authorized Agent

(7-88)

Canada

eeds $3,000 160 c/m yrs)

YUKON YELLOW METAL EXPLORATION LTD.
c/o Box 4870
Whitehorse, Yukon
Y1A 4N6

ORDPEX MINERALS INC.
Suite 203-303 Jarvis Street
Whitehorse, Yukon
Y1A 2H3

Invoice #-OR89-0117C
Date 31-Dec-89

CREDIT NOTE
To credit Ordpex Minerals for cost paid on behalf of Yukon Yellow Metal:

ON APP 1.

Date	Services		Rate		Cost
Exploration technologists:	Mob/demob		2319.50	Geologist	1250.00
	Room + Board		1665.00	Assays	561.00
	Wages		9600 -		15,295.50
	Equipment Rent		900 -		
YYME inv #111	A. Mac Donald	12	$250.00	/day	$3,000.00
inv # OR 114	per/diem food/incidentals 9 man/days		$35.00	/day	$315.00
inv # OR 114	10 man Camp rental 9 days 50% useage	4.5 days	$300.00	/day	$1,350.00
	Base radio, power plant tools-combined rate rental of power plant	9 days	$100.00	/day	$900.00
	L. Carlyle Geological				$500.00
	Frontier Helicopter				$2,319.47
	Acme Labs				$561.00
TOTAL					$8,945.47

APPROVED

Memo only:

(Other YYME costs not paid by Ordpex
L. Carlyle report $750.00 and M. Holloway wages $ 6,000
Grand total $15,695.47)

Backup material to Yukon Yellow Metal Exploration Assessment filed about December 15/89.

	Initials / Initiales	Date
Prepared by / Préparé par		
Approved by / Approuvé par		

Room & Board		315.00	CR ORSA 114
Camp rental 9 days ½ useage	150 p/d	1350.00	✓
Radio / Power Plant tools	100 pd	900.00	✓
A. McDonald wages	12 days @ 250	3000.00	
Helicopter - Frontier		2319.47	
Mel Holloway - preparation	13 days $300	3900.00	
- field	7 days @ $300	2100.00	
L. Carlyle - field days	2 x 250	500.00	
Report		750.00	
Assays - Acme LABS.		561.00	
		15695.41	

315. +
1,350. +
900. +
3,000. +
2,319.47 +
3,900. +
2,100. +
500. +
750. +
561. +
15,695.47 *

010

CONFIDENTIAL

REPORT ON THE

1989 EXPLORATION PROGRAM

YUKON YELLOW METAL EXPLORATION PROPERTY

WATSON LAKE MINING DISTRICT, YUKON

NTS 105 B 10, 11 and 15

FOR

YUKON YELLOW METAL EXPLORATION LTD.

By

LARRY W. CARLYLE, F.G.A.C., P. Geol.

Whitehorse, Yukon

January 8, 1990
and
Modified June 25, 1990

092858

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 $ 16,000.

per Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

SUMMARY

The Yukon Yellow Metal Exploration property adjoins claims controlled by Oropex Minerals Inc. in the Shootamook Creek area of the Wolf Lake Map Sheet (NTS 105 B 10, 11 and 15). Shootamook Creek is a tributary of Scurvy Creek approximately 55 miles (92 Km.) north of Rancheria Lodge situated at Mile 710 (Km. 1143) of the Alaska Highway.

Exploration on the property was performed at various times between September 10, 1989 and October 21, 1989. Because the Yukon Yellow Metal and Oropex Minerals properties adjoin and share some of the same management, it was decided to work out of the camp located on claims controlled by Oropex and share logistical support. Work on the Yukon Yellow Metal Exploration property consisted of:

- Regional geological mapping
- Regional stream sediment and rock sampling
- Blast hole trenching and sampling

The property is underlain by Late Proterozoic to Early Cambrian meta-sediments. These sediments have been deformed by at least three phases of folding. The first phase resulted in east to northeast axial plane folds. The second phase resulted in west or southwest axial plane folds. Third phase folds are open folds apparently related to the late Early Cretaceous intrusion of the Marker Lake batholith and the Cabin Creek and Gravel Creek stocks.

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

INTRODUCTION

The writer performed work on the Yukon Yellow Metal Exploration property at various times between September 10, 1989 and October 21, 1989. This report summarizes and assembles data collected.

LOCATION, ACCESS AND CLAIMS

The Yukon Yellow Metal Exploration property is located in the Shootamook Creek area of NTS Map Sheets 105 B 10, 11 and 15 within the Watson Lake Mining District, Yukon. Shootamook Creek is a tributary of Scurvy Creek located approximately 55 miles (92 Km.) north of Rancheria Lodge situated at Mile 710 (Km. 1143) of the Alaska Highway. Access during the 1989 exploration program was by helicopter.

Yukon Yellow Metal Exploration Ltd. holds 160 claims in 4 claim groups called the Bren, Don, Lin and Mel (See Figures 1 and 2). Other claims shown on these figures have been optioned to Oropex Minerals Inc. Assessment work has been filed to maintain all the Yukon Yellow Metal claims in good standing until January 4, 1991.

HISTORY

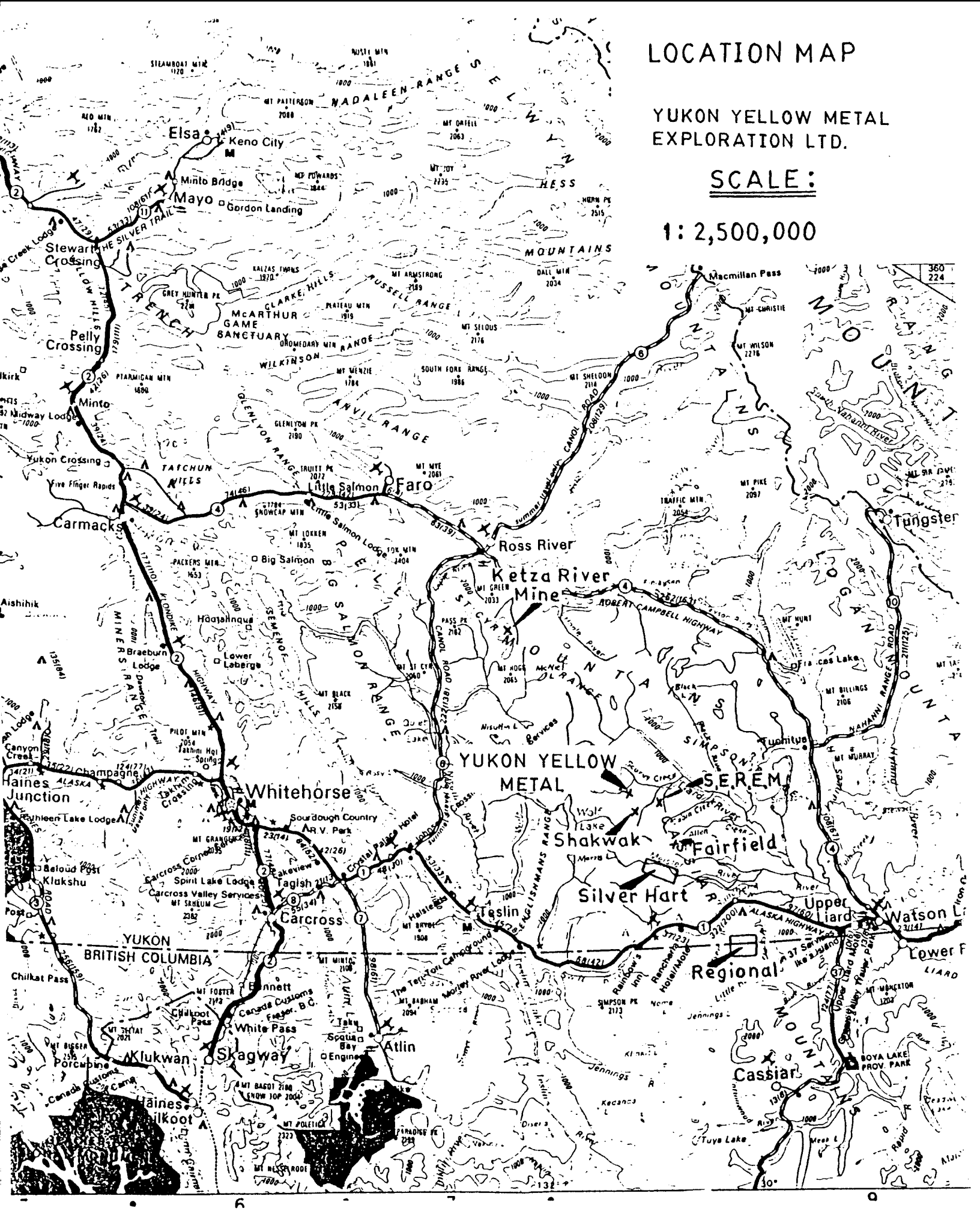
The Lin, Mel, Don and Bren Claim groups were staked in late December, 1987 at the same time as the Hugh, Bud Ron, Sam and Sid Claim groups. These last five claim groups have been joined with the original Matt-Matthew Claim group and optioned to Oropex Minerals Inc. (See Figures 1 and 2). Mr. Mel Holloway is the president of both Yukon Yellow Metal Exploration and Oropex

LOCATION MAP

YUKON YELLOW METAL
EXPLORATION LTD.

SCALE:

1: 2,500,000

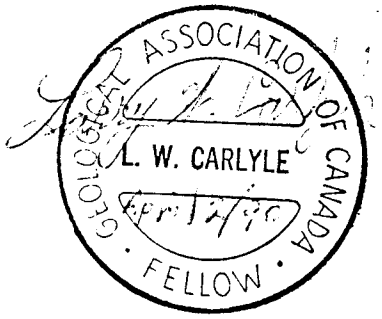


YUKON YELLOW METAL CLAIM INFORMATION

AS AT APRIL 2, 1990

Claim Names	Grant Numbers	Owner	Expiry Date
Lin 1 - 48	YB 10974-YB 11021	Mel Holloway	January 4, 1991
Mel 1 - 48	YB 10830-YB 10877	Mel Holloway	January 4, 1991
Don 1 - 48	YB 10782-YB 10829	Mel Holloway	January 4, 1991
Bren 1 - 16	YB 10718-YB 10733	Mel Holloway	January 4, 1991

I, Larry W. Carlyle, certify that I obtained these expiry dates on this date directly from Patti McLeod, the Watson Lake Mining Recorder.



Minerals Inc. All of the claim groups listed above were staked to protect any continuation of the Winnie Gold Showing located on the Mott-Matthew Claim group.

REGIONAL GEOLOGY

Regional geological mapping on a scale of 1:50,000 covering the Gravel Creek (105 B 10) and Irvine Lake (105 B 11) map sheets was completed by Donald Murphy during the summer of 1987. This work is now available as Open File 1988-1.

Mr. Murphy's work has shown that the Yukon Yellow Metal Exploration property is underlain by Late Proterozoic to Early Cambrian meta-sediments. At least three phases of folding have deformed these sediments. The first phase is considered to be of early Middle Jurassic age and has resulted in east to northeast axial plane folds. The second phase of folding deforms the first phase and is cross-cut by the late Early Cretaceous Marker Lake batholith and Cabin Creek and Gravel Creek stocks. This second phase of folding results in west to southwest axial plane folds. The third phase of folding is expressed as open folds related to the Cretaceous intrusives. The regional geology as mapped during 1989 is shown on Figure 2.

PROPERTY GEOLOGY

Geological mapping in the claim area is severely hampered by a lack of outcrop. Outcrop is most frequently located in stream cuts and on sharply dipping hillsides.

The oldest rocks seen on the property are black to dark grey limy graphitic phyllite. In areas of faulting and hydrothermal activity, this phyllite is altered to sericitic and to silicified sericitic equivalents. The graphitic phyllite grades upward into a dark grey, fine grained limestone on the Mel, Don and Bren Claim groups. The phyllite is exposed on the north bank of Scurvy Creek where it is overlain unconformably by a light grey to white, sugary quartzite on the Hugh and Lin Claim groups.

The dark grey limestone which overlies the graphitic phyllite on most of the property in its turn grades upward into a light grey to white, sugary limestone. This white limestone is well exposed on bluffs near hilltops on the Mel and Don Claim groups. The progression from black graphitic phyllite to dark grey graphitic limestones to white limestones is believed to be an expression of a rising sea floor during deposition.

No folds or axial plane faults have, as yet, been located on the Yukon Yellow Metal property. The locating of such structures on the adjoining Oropex Minerals claims indicates that similar structures may, however, exist. The proximity of the Bren, Don and Mel Claims to the Gravel Creek stock (See Figure 2) and the extensive exploration in the 1970's for tungsten skarn deposits south of Stoneaxe Lake strongly suggests that these claim groups be considered as excellent exploration targets, not only for gold, but for tungsten.

WORK PERFORMED

1. Regional Geological Mapping

The geology described in the Property Geology section and drawn on Figure 2 was obtained from ground traverses and helicopter supported traverses I did during the exploration program. Some of these traverses were made looking specifically for skarn mineralization because of the tungsten skarn exploration near Stonehxe Lake. Only weakly altered limestone has, as yet, been located but further work is warranted.

As stated earlier, geological mapping is hampered by a lack of outcrop. The complex deformational history of the area documented by Murphy (1988) further adds to the need for a good geological understanding of the property. This understanding may be assisted by controlled aerial photography of the area. The cost of this work could be shared between Yukon Yellow Metal, Oropex Minerals and other claim holders in the area.

2. Regional Stream Sediment and Rock Sampling

The stream sediment and rock sampling locations are shown on Figure 1 with the assay certificates included in Appendix A. These samples were, in part, obtained with helicopter support in an attempt to better understand the geology and to locate areas warranting further work. Speed was needed in accomplishing this work since it was started late for a Yukon exploration season.

Samples with specific application to the Yukon Yellow Metal

CLAIMS LIST ON WHICH WORK WAS PERFORMED

Traverses on foot and with helicopter support were done over the claims described in this report to achieve the regional stream sediment sampling program and the regional geological mapping shown on Figures 1 and 2.

BLAST HOLE TRENCHES

Sample #	Claim Name	Claim Tag #
L-89-1	Lin 5	YB 10978
L-89-2	Lin 33	YB 11006
M-89-1	Mel 18	YB 10847

ROCK SAMPLES

Sample #	Claim Name	Claim Tag #
34	Mel 4	YB 10833
35	Don 45	YB 10826
37	Bren 6	YB 10723

STREAM SEDIMENT SAMPLES

Sample #	Claim Name	Claim Tag #
SS 31	Bren 13	YB 10730
SS 32	Bren 14	YB 10731
SS 35	Don 38	YB 10819
SS 36	Don 40	YB 10821

Stream Sediment Samples # 37 and 38 were taken from creeks which drain areas of the Mel and Lin Claim groups.

Exploration property have been marked with an asterike in Appendix A. The elevated levels of tungsten obtained in stream sediment samples SS-34 and SS-35 are a further indication that such mineralization exists south of Stoneaxe Lake in the Gravel Creek stock.

3. Blast Hole Trenching and Sampling

Three of the samples, L-89-1, L-89-2 and M-89-1, on Figure 1 and in Appendix A represent samples taken at blast hole sites. The volumes blasted at these sites has been reported in the assessment reports.

Blast Hole Sample Descriptions

Sample #	Description	Au (ppb)	Ag (PPM)	As(PPM)
L-89-1	Iron stained soil and white quartzite (+ gneiss)	3	0.1	11
L-89-2	Fractured white quartzite < 1% disseminated pyrite	3	0.1	2
M-89-1	Pink (manganese ?) iron stained white sugary limestone	3	0.1	4

A partial rock sample description table is included as Appendix B. Sample descriptions and assay results not included in Appendices A and B apply to work done on the Oropex Minerals property and do not form part of this report.

CONCLUSIONS

The geological work done in the area of the Yukon Yellow Metal Exploration property by Murphy and myself has resulted in a

better understanding of the geological complexity and potential of the area.

The presence of the significant gold showing being explored by Oropex Minerals on the adjoining property and the extensive exploration in the 1970's for tungsten-skarn deposits south of Stoneaxe Lake give some indication of the area's potential. This potential shows that further geological work is warranted in the search for gold and tungsten mineralization on the Yukon Yellow Metal Exploration property.

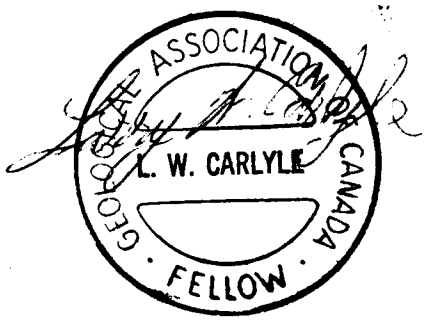
RECOMMENDATIONS AND PROPOSED WORK PROGRAM

1. Controlled low level aerial photography of the area will assist in completing further geological mapping on the Yukon Yellow Metal property. The cost of this work could be shared with Oropex Minerals and other claim holders in the area who may find photography useful in their mine planning.

2. Increased geological understanding of the property with more rock and soil sampling data has a good chance of locating areas of gold and tungsten mineralization. These areas could warrant trenching and further exploration.

PROPOSED 1990 BUDGET

Wages and Benefits	$ 6,000.00
Camp	$ 3,000.00
Room and Board	$ 500.00
Geological Services	$ 5,000.00
Aircraft and Helicopter	$ 5,000.00
Fuel and Supplies	$ 1,000.00
Assaying	$ 2,000.00
Aerial Photography	$ 9,000.00
Contingencies	$ 3,500.00
Total	$ 35,000.00



REFERENCES

1. Carlyle, L.W., (1989) "Report on the Lin, Mel, Don and Bren Claim Groups, Watson Lake Mining District, Yukon". Report to Yukon Yellow Metal Exploration Ltd.

2. Carlyle, L.W., (1989) "Report on the 1989 Exploration Program, Oropex Minerals Inc. Property, Watson Lake Mining District, Yukon". Report to Oropex Minerals Inc.

3. Murphy, D.C., (1988) "Geology of Gravel Creek (105 B 10) and Irvine Lake (105 B 11) Map Areas, Southeastern Yukon". Open File 1988-1, Canada Yukon E.D.A.

STATEMENT OF QUALIFICATIONS

I, LARRY W. CARLYLE, do certify:

1. That I am a professional geologist operating a business registered as CARLYLE GEOLOGICAL SERVICES LTD. with an office at 74 Tamarack Drive, Whitehorse, Yukon Y1A 4Y6.

2. That I hold a B. Sc. degree in geology from the University of British Columbia (1970).

3. That I am a Fellow of the Geological Association of Canada (F - 4355).

4. That I am a Registered Professional Geologist in the Association of Professional Engineers, Geologists and Geophysicists of the Province of Alberta (41097).

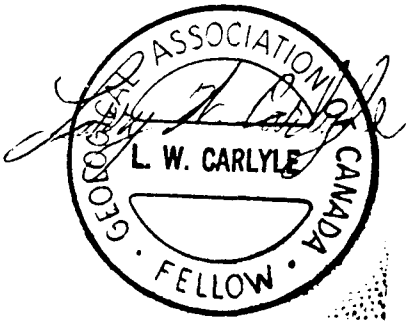
5. That I am a Member of the Canadian Institute of Mining and Metallurgy.

6. That I have practiced my profession as a mine and exploration geologist for fifteen years.

7. The conclusions and recommendations in the attached report are based on a work program I supervised on the property and a review of all available private and public reports on the property.

8. That I hold no interest in the property or in the shares of Yukon Yellow Metal Exploration Ltd.

DATED at Whitehorse, Yukon, this 8th day of January, 1990.



YUKON YELLOW METAL EXPLORATION
SAMPLE LOCATION MAP

SCALE 1:50,000

0 1000 2000

× SS 30 Stream Sediment Sample

× 20 Rock Sample

× H-89-1 Blast Hole Trench Sample

October/89 C.G.S.

FIGURE 1

MAP #105-6-101
11,15

Doc #092858

170

GEOLOGICAL ASSOCIATION OF CANADA
L. W. CARLYLE
FELLOW

HUGH

LIN

MEL

BUD

RON

SAM

SID

DON

BREN

CASSIAR MTNS

Breccia

SHOOTAMOOK CREEK

Stoneaxe L.

Stoneaxe Lake

Eskers

GRAVEL CREEK STOCK

YUKON YELLOW METAL
EXPLORATION
PROPERTY GEOLOGY

SCALE 1:50,000 0 1000 2000

1 LIMY PHYLLITE
2 LIMESTONE
3 QUARTZITE
4 DIORITE

ANTIFORM
SYNFORM
CONTACT

FIGURE 2

PARTS OF CLAIM MAPS
NTS 105 B 10,11,14 & 15
SCALE: 1:31,680

MAP#105-B-10,11,15
Doc#092858
171

092858

APPENDIX A

ASSAY CERTIFICATES

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
3+[illegible]N 5+80E	1	15	11	49	.1	23	10	309	2.37	18	5	ND	8	570	1	2	2	10	11.69	.048	20	12	.57	28	.01	2	.64	.01	.02	1	-
3+[illegible]N 6+00E	1	19	13	61	.1	23	11	358	2.70	15	5	ND	9	562	1	2	2	7	9.94	.046	22	13	.60	32	.01	2	.80	.01	.02	1	-
3+[illegible]N 6+21E	1	21	12	58	.1	23	10	224	2.45	16	5	ND	9	467	1	2	2	8	8.84	.047	23	13	.52	43	.01	2	.75	.01	.02	1	-
L-[illegible]9-1 ✱	1	19	11	43	.1	26	12	330	2.88	11	5	ND	9	21	1	2	2	18	.43	.025	28	23	.44	73	.01	2	1.37	.01	.08	1	3

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
L-89-2	3	4	2	1	.1	11	1	10	.30	2	5	ND	1	3	1	2	2	1	.01	.002	3	8	.01	2	.01	2	.03	.01	.02	1	3
M-89-1	3	3	3	1	.1	11	2	78	.71	2	5	ND	1	23	1	2	2	1	.42	.086	4	7	.02	8	.01	2	.07	.01	.04	1	4
M-89-2	3	6	4	7	.1	11	2	54	1.26	4	5	ND	3	28	1	2	3	1	.18	.122	9	9	.01	19	.01	4	.12	.01	.05	1	1
M-89-1	1	1	2	1	.1	1	1	30	.09	4	5	ND	2	1159	1	2	2	1	38.20	.005	2	1	.13	5	.01	2	.01	.01	.01	1	3
MCS 1-1	2	30	25	6	.1	43	10	3	2.52	138	5	ND	23	82	1	22	2	14	.67	.222	63	24	.02	45	.01	4	.84	.01	.09	4	8
MCS 1-2	2	17	30	5	.2	16	4	7	2.94	85	5	ND	14	111	1	33	2	5	1.91	.033	27	10	.03	15	.01	6	.47	.01	.18	4	17
MCS 1-3	2	12	17	17	.5	21	8	7	3.70	89	5	ND	6	12	1	29	2	3	.07	.020	23	9	.01	13	.01	7	.28	.01	.07	3	6
MCS 1-4	1	22	50	13	.4	17	5	8	6.26	218	5	ND	22	97	1	28	2	13	.14	.222	59	20	.03	51	.01	3	.57	.01	.10	15	11
MCS 1-5	2	7	10	3	.5	15	3	6	1.66	69	5	ND	3	8	1	13	2	2	.02	.005	8	9	.01	24	.01	5	.24	.01	.12	1	10
MCS 1-6	1	27	12	13	2.1	34	13	9	8.70	97	5	ND	15	48	1	43	2	7	.08	.015	29	10	.02	8	.01	3	.60	.01	.14	4	19
MCS 2-1	1	78	35	90	.1	148	28	202	2.70	6	5	ND	39	47	1	4	4	49	.97	.283	144	102	1.41	16	.01	10	2.45	.01	.03	12	2
MCS 2-2	1	40	38	13	.1	70	18	14	5.40	26	5	ND	37	78	1	15	4	20	.49	.252	86	38	.10	17	.01	2	1.05	.01	.04	16	4
MCS 2-3	1	25	28	114	.1	70	20	6	5.22	83	5	ND	20	25	1	38	2	17	.26	.078	74	19	.04	29	.01	6	.85	.01	.14	9	18
MCS 2-4	2	50	20	47	.4	39	12	13	3.86	663	6	ND	16	97	1	20	2	11	.20	.136	93	21	.03	40	.01	21	1.42	.01	.12	14	60
MCS 2-5	1	42	27	51	3.1	146	36	2	12.62	439	5	ND	23	72	1	96	2	11	.23	.065	60	13	.02	7	.01	7	.56	.01	.10	4	39
MCS 2-6	1	22	17	108	2.7	97	29	7	9.08	242	5	ND	9	70	1	56	2	8	.30	.030	31	9	.03	11	.01	5	.66	.01	.19	2	32
MCS 3-1	1	26	29	78	.1	102	22	9	3.04	34	6	ND	23	69	1	60	2	11	.54	.222	96	18	.01	32	.01	8	.78	.01	.03	8	3
MCS 3-2	1	22	19	53	.1	81	16	11	4.08	31	5	ND	18	29	1	58	2	9	.36	.140	69	17	.01	22	.01	8	.65	.01	.03	5	12
MCS 3-3	1	25	18	59	.1	94	22	9	6.99	41	5	ND	20	28	1	55	2	12	.39	.156	73	17	.01	16	.01	2	.73	.01	.03	8	8
MCS 3-4	16	256	27	42	.1	38	24	22	11.24	28	5	ND	8	18	1	68	2	11	.73	.267	26	8	.01	7	.01	14	.59	.01	.01	12	3
MCS 3-5	1	22	31	59	.6	79	18	10	4.36	129	5	ND	22	22	1	42	2	11	.41	.152	73	13	.01	27	.01	23	.69	.01	.10	6	26
MCS 4-1	5	43	20	99	.4	115	27	22	3.72	96	6	ND	25	18	1	30	2	16	.45	.152	76	22	.02	26	.01	19	.97	.01	.08	9	17
MCS 4-2	2	32	23	57	.6	107	23	8	3.67	44	5	ND	21	18	1	68	2	12	.52	.199	74	17	.01	26	.01	8	.74	.01	.02	8	14
MCS 4-3	5	37	25	43	.2	48	13	12	5.35	75	5	ND	16	39	1	31	2	11	.38	.179	60	12	.01	23	.01	5	.73	.01	.07	7	12
MCS 4-4	1	33	22	55	.3	91	26	8	7.64	42	5	ND	23	13	1	38	3	13	.48	.192	89	18	.01	10	.01	2	.72	.01	.02	6	7
~~MCS 5-1~~	~~1~~	~~19~~	~~22~~	~~32~~	~~1.3~~	~~72~~	~~16~~	~~14~~	~~4.52~~	~~98~~	~~5~~	~~ND~~	~~13~~	~~41~~	~~1~~	~~87~~	~~2~~	~~12~~	~~.36~~	~~.187~~	~~53~~	~~18~~	~~.01~~	~~21~~	~~.01~~	~~7~~	~~.60~~	~~.01~~	~~.07~~	~~5~~	~~15~~
MCS 5-2	1	5	20	40	.2	56	13	15	.98	44	5	ND	20	33	1	29	4	13	.55	.271	99	17	.01	29	.01	7	.74	.01	.09	6	2
MCS 5-3	2	19	20	39	1.2	50	11	15	5.16	330	5	ND	5	24	[illegible]	85	2	7	.16	.078	25	12	.01	14	.01	22	.46	.01	.08	4	32
MCS 5-4	2	32	24	81	.8	91	25	8	5.35	54	5	ND	19	19	1	39	4	13	.38	.140	67	18	.01	17	.01	9	.82	.01	.06	7	6
MCS 5-5	1	33	33	116	.1	68	20	2	9.34	21	5	ND	14	18	1	19	2	10	.20	.054	63	10	.02	16	.01	3	.77	.01	.11	8	2
MCS 5-6	1	31	23	64	.3	29	12	5	6.21	77	5	ND	9	15	1	71	2	5	.15	.051	36	9	.01	10	.01	8	.54	.01	.07	2	17
ORO-54	1	22	12	21	.7	15	7	5	6.61	455	5	ND	11	12	1	39	2	5	.03	.035	14	9	.01	13	.01	9	.37	.01	.06	3	25
ORO-55	1	36	36	71	.2	35	21	2	7.55	81	5	ND	10	18	1	66	2	5	.16	.053	41	7	.01	13	.01	4	.50	.01	.09	2	18
ORO-56	1	25	19	102	.1	51	18	6	6.06	16	5	ND	12	21	1	20	2	6	.21	.071	37	10	.01	15	.01	3	.58	.01	.09	3	7
ORO-57	1	14	32	41	.5	58	13	14	2.42	234	5	ND	9	25	1	36	2	8	.31	.120	46	11	.01	22	.01	6	.56	.01	.10	3	27
ORO-58	11	34	18	62	.9	97	24	11	7.03	57	5	ND	20	16	1	49	4	12	.43	.169	98	19	.01	11	.01	2	.74	.01	.03	9	11
STD C/AU-R	18	61	38	132	7.2	66	31	935	4.00	39	19	6	36	47	18	14	19	57	.48	.088	37	56	.90	174	.06	34	2.00	.06	.14	11	520

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
[illegible]-59	1	24	28	40	.4	62	18	5	6.02	64	5	ND	19	23	1	54	2	12	.43	.163	52	18	.01	17	.01	12	.68	.01	.06	6	1
[illegible]-60	3	32	25	52	.1	69	19	12	3.46	53	5	ND	17	33	1	42	2	15	.38	.169	72	15	.01	21	.01	15	.69	.01	.08	8	1
[illegible]-61	1	37	30	63	1.2	80	22	8	10.38	138	5	ND	16	94	1	108	2	11	.36	.159	63	14	.01	4	.01	9	.64	.01	.07	5	1
[illegible]-62	3	4	9	3	.1	10	1	11	.37	66	5	ND	3	4	1	2	2	3	.02	.009	14	10	.01	15	.01	15	.32	.01	.08	4	
[illegible]-63	2	4	11	3	.1	13	3	2	1.00	646	5	ND	12	15	1	64	2	7	.02	.035	34	10	.01	61	.01	13	.40	.01	.07	5	14
[illegible]-64	2	15	12	70	.4	24	6	6	2.33	4373	5	ND	8	10	1	26	2	4	.03	.020	13	10	.01	29	.01	3	.32	.01	.12	1	740
[illegible]-65	1	55	19	79	.2	60	25	3	5.28	1802	5	ND	21	37	1	40	2	16	.14	.042	40	13	.06	10	.01	3	.71	.01	.19	7	63
[illegible]-66	2	21	12	93	.1	49	14	2	2.97	80	5	ND	14	21	1	25	2	8	.14	.043	46	8	.05	25	.01	14	.70	.01	.22	3	6
[illegible]-67	1	1	17	2	.1	3	1	2	.96	38	5	ND	4	22	1	36	2	5	.01	.027	13	6	.01	31	.01	4	.51	.01	.08	4	1
[illegible]-68	3	28	22	23	.1	29	9	146	1.73	58	5	ND	11	62	1	13	2	10	.57	.059	46	16	.18	62	.01	10	.52	.01	.08	4	5
[illegible]-69	3	50	8	51	.1	28	14	533	3.09	53	5	ND	12	46	1	4	2	6	1.80	.044	36	9	.03	34	.01	3	.39	.01	.14	1	4
[illegible]-70	1	2	15	3	.3	9	1	15	.40	9	5	ND	13	6	1	43	2	7	.05	.017	62	14	.01	10	.01	2	.41	.01	.02	3	21
[illegible]-71	2	39	21	113	.1	50	22	418	5.39	55	5	ND	10	127	1	2	2	13	2.96	.059	14	12	.24	24	.01	4	.41	.01	.11	1	9
[illegible]-72	2	23	19	24	.1	44	12	12	2.92	43	5	ND	22	24	1	58	2	11	.23	.152	67	17	.01	38	.01	16	.60	.01	.03	6	10
[illegible]-73	1	19	6	60	.1	28	8	52	2.54	10	5	ND	11	24	1	2	2	3	.22	.043	44	7	.05	22	.01	12	.35	.01	.10	1	5
[illegible]-74	1	3	14	2	.1	2	1	2	.56	96	5	ND	7	19	1	2	2	5	.05	.035	40	9	.01	25	.01	10	.40	.01	.11	20	36
[illegible]-75	2	4	17	4	.1	6	2	4	1.25	15	5	ND	5	8	1	5	2	8	.07	.015	22	10	.01	18	.01	4	.49	.01	.08	17	5
[illegible]-76	2	3	13	3	.1	4	1	3	1.01	4	5	ND	5	103	1	2	2	8	1.80	.011	15	11	.01	15	.01	13	.43	.01	.05	28	3
[illegible]-77	1	5	6	3	.1	2	1	2	1.77	6	5	ND	6	8	1	6	2	6	.05	.006	37	7	.01	21	.01	2	.40	.01	.10	32	4
STD C/AU-R	18	62	42	132	7.2	67	30	928	4.05	41	17	7	37	47	17	15	19	57	.50	.090	37	55	.90	174	.06	37	2.03	.06	.13	11	495

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
ORO-27	1	2	1696	49	3.3	5	2	637	1.49	7	5	ND	1	115	1	8	2	1	18.37	.001	2	1	5.33	1	.01	4	.02	.01	.01	1	3
ORO-28	1	6	5	3	.1	5	1	32	.36	2	5	ND	1	3	1	2	2	1	.02	.003	4	52	.01	10	.01	9	.08	.01	.05	1	4
ORO-29	1	2	14	11	.1	1	1	444	1.01	12	5	ND	1	197	1	2	2	1	21.25	.002	2	1	5.64	2	.01	3	.01	.01	.01	1	7
ORO-30	1	1	2	3	.1	1	1	201	.73	2	5	ND	1	57	1	2	2	1	16.05	.001	2	22	6.07	3	.01	2	.01	.01	.01	1	1
ORO-31	1	7	2	9	.1	2	2	257	1.82	66	5	ND	1	1731	1	2	2	2	31.43	.007	4	1	.56	4	.01	6	.04	.01	.01	1	7
ORO-32	1	2	2	2	.1	1	1	65	.18	3	5	ND	1	804	1	2	2	1	39.62	.006	4	1	.09	1	.01	2	.02	.01	.01	1	1
ORO-33	1	4	2	4	.1	1	1	208	.40	5	5	ND	1	115	1	2	2	1	26.59	.005	3	1	5.85	6	.01	15	.03	.01	.01	1	3
ORO-34	1	4	2	18	.1	1	1	504	1.42	3	5	ND	1	192	1	2	2	2	27.27	.007	2	1	4.28	3	.01	2	.02	.01	.01	1	2
ORO-35	1	3	2	1	.1	1	1	25	.11	2	5	ND	1	896	1	2	2	1	39.31	.004	2	1	.21	1	.01	2	.01	.01	.01	1	1
ORO-36	1	4	11	13	.1	6	2	81	.73	3	5	ND	1	27	1	2	2	1	1.11	.130	3	42	.17	1	.01	8	.16	.01	.01	1	1
ORO-37	1	1	19	34	.1	1	1	697	.28	2	5	ND	1	397	1	2	2	1	41.03	.001	2	1	.11	1	.01	2	.01	.01	.01	1	2
ORO-38	1	5	21	153	.1	9	6	180	2.51	2	5	ND	1	1162	1	2	2	3	35.23	.012	6	2	.09	2	.01	2	.14	.01	.01	1	1
ORO-39	1	4	3	19	.1	1	2	132	3.21	135	5	ND	1	1059	1	16	2	2	34.70	.007	3	3	.11	6	.01	3	.07	.01	.01	1	1
ORO-40	1	3	4	5	.1	4	1	53	.27	2	5	ND	1	904	1	2	2	1	38.65	.007	5	1	.08	1	.01	3	.05	.01	.01	1	1
ORO-41	2	155	5	8	.1	26	10	970	1.42	12	5	ND	1	459	1	2	2	1	16.33	.002	13	3	.68	9	.01	15	.04	.01	.01	1	4
ORO-42	1	24	26	14	1.0	12	6	8	3.86	118	5	ND	19	44	1	91	2	7	.71	.097	45	15	.01	29	.01	2	.33	.01	.04	6	18
ORO-43	1	6	3	1	2.4	3	1	33	.63	92	5	ND	7	20	1	65	2	4	.43	.008	37	5	.02	14	.01	8	.26	.01	.09	2	75
ORO-44	1	8	10	3	1.0	3	1	6	2.36	1300	5	ND	12	7	1	106	2	8	.06	.014	49	16	.01	15	.01	2	.38	.01	.06	6	129
ORO-45	1	7	5	5	5.1	4	1	23	1.72	1906	5	ND	4	6	1	76	2	3	.07	.003	10	8	.01	9	.01	6	.19	.01	.07	1	950
ORO-46	1	53	12	43	.1	108	21	701	3.08	18	5	ND	23	125	1	2	2	43	5.71	.203	91	89	1.47	83	.01	2	2.41	.01	.03	19	11
ORO-47	1	24	38	27	.1	55	9	86	1.39	28	7	ND	13	50	1	11	3	23	.32	.097	100	53	.42	121	.01	16	.95	.01	.05	14	11
ORO-48	1	3	6	2	.2	3	1	13	.16	7	5	ND	5	6	1	23	2	7	.09	.007	22	26	.02	22	.01	2	.32	.01	.02	8	4
ORO-49	1	4	19	2	1.0	4	1	9	.27	12	5	ND	6	7	1	42	2	7	.03	.007	35	9	.01	19	.01	2	.28	.01	.04	5	26
ORO-50	1	1	23	2	.4	3	1	6	.52	84	5	ND	5	17	1	26	2	4	.03	.009	34	16	.01	43	.01	6	.33	.01	.10	1	37
ORO-51	1	13	33	6	1.1	6	3	5	1.97	665	5	ND	20	41	1	69	2	6	.01	.034	55	9	.01	61	.01	10	.29	.01	.07	4	99
ORO-52	1	8	32	5	1.6	6	2	16	1.73	350	5	ND	23	13	1	49	2	9	.02	.032	40	23	.01	42	.01	2	.43	.01	.05	6	30
ORO-53	1	20	17	36	1.1	53	11	35	3.04	4138	5	ND	8	19	1	61	2	6	.23	.081	31	10	.02	24	.01	4	.28	.01	.08	2	290
STD C/AU-R	18	61	36	133	6.6	70	31	1001	4.04	40	17	7	37	48	19	15	22	58	.48	.091	38	56	.88	171	.06	35	1.96	.06	.14	12	530

SAMPLE	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
SS-33 P	1	22	26	143	.3	23	10	477	2.76	28	5	ND	5	141	1	3	2	10	4.36	.075	15	12	.43	42	.01	2	.72	.01	.06	1	29
SS-34 P	1	25	15	145	.2	31	13	315	3.24	23	5	ND	5	84	1	8	2	12	1.96	.065	20	16	.63	53	.02	3	.99	.01	.09	21	12
SS-35	1	14	12	96	.1	20	9	324	2.50	2	5	ND	6	25	1	2	2	17	.44	.101	23	18	.42	41	.03	2	1.07	.01	.10	12	45
SS-36 P	1	16	14	72	.1	22	8	183	2.41	19	5	ND	2	222	1	2	2	9	6.67	.053	22	16	.45	31	.01	2	.93	.01	.03	1	7
SS-37 P	1	21	8	57	.1	26	10	270	2.57	13	5	ND	5	325	1	2	2	9	10.21	.046	14	15	.51	29	.01	2	.80	.01	.05	5	10
SS-38	1	16	8	54	.1	21	10	368	2.50	4	5	ND	4	57	1	2	2	9	1.41	.082	19	14	.38	33	.01	2	.75	.01	.05	1	4
SS-39 P	1	18	8	50	.1	26	9	318	2.59	17	5	ND	5	178	1	2	2	11	4.95	.043	14	19	.72	32	.01	2	.94	.01	.05	1	4
SS-40 P	1	8	8	30	.1	14	7	336	1.88	3	5	ND	3	22	1	2	2	8	.43	.057	14	11	.22	33	.01	3	.52	.01	.05	1	7
STD C/AU-S	17	62	40	139	7.1	66	30	1022	3.92	36	17	7	36	47	17	15	23	56	.48	.087	37	54	.86	175	.06	34	1.92	.06	.14	13	51

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
SS 1	1	18	11	70	.1	24	11	327	2.68	18	5	ND	6	402	1	2	2	8	8.22	.056	16	12	.54	30	.01	2	.75	.01	.03	1	3
SS 2	1	16	10	60	.1	23	10	330	2.72	15	5	ND	7	505	1	2	2	9	10.40	.049	22	14	.71	43	.01	3	.74	.01	.02	1	1
SS 3	1	19	8	54	.1	28	13	648	2.96	4	5	ND	4	41	1	2	2	11	.77	.097	20	18	.44	49	.01	5	.95	.01	.05	1	6
SS 4	1	16	11	49	.1	28	12	858	3.57	17	5	ND	4	38	1	2	2	10	5.20	.075	16	13	1.29	59	.01	3	.64	.01	.05	1	6
SS 5	1	17	11	60	.1	30	14	617	3.43	8	5	ND	6	51	1	2	2	7	2.50	.060	20	15	.56	29	.01	2	.92	.01	.05	1	3
SS 6	1	14	7	64	.1	23	11	618	3.00	10	5	ND	4	31	1	2	2	12	.74	.072	19	15	.41	99	.01	4	1.06	.01	.05	1	1
SS 7	1	22	12	63	.1	27	15	768	3.67	8	5	ND	7	29	1	2	2	11	.54	.087	24	16	.44	53	.01	2	1.01	.01	.05	1	5
SS 8	1	17	12	61	.1	27	14	568	3.17	9	5	ND	8	142	1	2	2	8	4.45	.051	23	13	.64	142	.01	2	.86	.01	.04	1	1
SS 9	1	16	13	64	.1	27	13	613	2.92	8	5	ND	4	99	1	2	2	7	3.05	.066	24	12	.55	38	.01	9	.98	.01	.04	1	4
SS 10	1	24	13	72	.1	32	17	581	3.68	17	5	ND	7	47	1	2	2	9	1.55	.059	19	14	.73	46	.01	2	1.16	.01	.05	1	1
SS 11	1	14	12	74	.1	17	8	376	2.29	13	5	ND	3	160	1	2	2	7	7.38	.043	20	11	.46	41	.01	9	.82	.01	.03	1	3
SS 12	1	5	6	25	.2	8	4	246	1.08	11	5	ND	2	505	1	2	2	3	20.27	.013	8	4	.79	13	.01	2	.27	.01	.01	1	2
SS 13	1	13	10	47	.1	17	7	310	2.20	7	5	ND	3	207	1	2	2	18	5.10	.055	21	17	.47	54	.02	10	.79	.01	.03	1	1
SS 14	1	24	17	80	.1	28	14	320	3.39	312	5	ND	6	112	1	2	3	11	2.18	.032	25	12	.26	37	.01	7	.60	.01	.03	1	28
SS 15	1	10	9	62	.1	16	10	1084	2.76	29	5	ND	2	67	1	2	2	11	1.51	.048	21	16	.35	87	.01	9	.93	.01	.04	1	1
SS 16	1	18	8	46	.1	23	10	222	2.37	35	5	ND	4	300	1	2	2	10	9.58	.035	18	14	.47	39	.01	5	.69	.01	.02	2	6
SS 17	1	15	11	57	.1	25	10	648	2.83	11	5	ND	4	70	1	2	2	15	1.45	.074	22	26	.60	136	.01	5	.99	.01	.04	1	1
SS 18	1	8	9	32	.1	14	6	208	1.63	17	5	ND	3	413	1	2	2	7	14.78	.026	13	9	.52	31	.01	2	.47	.01	.02	2	1
SS 19	1	11	20	42	.1	18	7	174	2.06	24	5	ND	4	517	1	2	2	8	15.94	.035	12	10	.89	29	.01	17	.62	.01	.02	3	1
SS 20	1	12	9	49	.1	16	7	227	1.87	7	5	ND	5	345	1	2	2	10	13.65	.039	15	13	.64	58	.01	9	.83	.01	.05	1	7
SS 21	1	36	18	98	.1	49	21	275	4.35	35	5	ND	16	190	1	2	2	9	3.36	.057	28	18	.85	14	.01	2	1.02	.01	.01	1	3
SS 22	1	3	3	19	.1	4	2	71	.52	3	5	ND	1	376	1	2	2	2	22.47	.013	4	3	.25	19	.01	3	.22	.01	.01	1	3
SS 23	1	16	15	74	.1	25	11	154	2.96	17	5	ND	5	147	1	2	2	7	2.31	.043	23	7	.24	14	.01	4	.46	.01	.02	1	6
SS 24	1	29	17	92	.1	35	16	264	3.73	26	5	ND	7	180	1	2	2	8	3.16	.042	20	12	.48	17	.01	6	.85	.01	.01	1	4
SS 25	1	35	19	104	.1	42	18	355	4.04	69	5	ND	8	294	1	2	2	4	7.04	.035	12	8	.45	15	.01	2	.62	.01	.01	1	2
SS 26	1	18	17	74	1.9	29	12	314	3.15	20	5	ND	7	150	1	2	2	10	2.90	.064	23	13	.51	23	.01	16	.90	.01	.03	2	1
SS 27	1	15	11	67	.2	20	9	244	2.17	10	5	ND	7	69	1	2	2	9	1.20	.054	22	11	.44	19	.01	8	.79	.01	.02	1	6
SS 28	1	18	19	101	.1	28	12	250	3.24	8	5	ND	10	115	1	2	3	11	2.20	.080	35	14	.76	20	.01	2	1.18	.01	.03	1	4
SS 29	1	12	8	51	.3	16	8	201	2.16	11	5	ND	7	461	1	2	2	9	10.20	.043	19	11	.43	20	.01	5	.71	.01	.03	1	8
SS 30	1	12	10	85	.1	18	9	276	2.62	18	5	ND	8	111	1	2	2	11	2.10	.098	24	15	.56	35	.01	2	.95	.01	.04	3	16
SS 31	1	19	22	112	.1	30	12	261	3.08	48	5	ND	6	130	1	2	2	8	2.97	.073	21	17	.52	24	.01	14	.79	.01	.03	1	10
SS 32	1	9	9	75	.1	17	7	186	2.21	12	5	ND	7	87	1	2	2	9	1.79	.101	20	12	.48	31	.01	6	.80	.01	.03	3	12
SS RED	1	16	15	48	.1	31	10	359	2.30	15	5	ND	8	414	1	2	2	10	13.36	.060	32	18	1.30	24	.01	18	.58	.01	.03	2	15
SS REL 1	1	23	14	66	.1	31	12	233	2.87	13	5	ND	9	284	1	2	2	10	6.65	.046	27	17	.72	36	.01	2	1.10	.01	.03	1	5
SS REL 2	1	4	2	12	.1	4	1	24	.11	2	5	ND	1	363	1	2	4	1	28.53	.014	7	1	.16	22	.01	13	.06	.01	.01	1	1
SS LIN	1	25	11	75	.1	34	14	234	3.37	29	5	ND	9	159	1	2	2	9	3.35	.042	35	18	.63	31	.01	2	1.01	.01	.03	1	5
STD C/AU-S	18	59	39	132	6.6	68	30	1012	4.00	42	17	7	37	48	17	16	19	58	.50	.089	38	52	.89	176	.05	35	1.93	.06	.14	12	48

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
ORO 1	1	2	12	12	.1	6	1	354	2.53	10	5	ND	1	1128	1	2	2	1	35.89	.004	4	1	1.29	2	.01	2	.01	.01	.01	1	4
ORO 2	1	6	18	15	.1	4	1	411	1.30	9	5	ND	3	1222	1	2	2	1	26.27	.013	6	17	.52	4	.01	2	.04	.01	.03	1	1
ORO 3	1	6	8	14	.1	7	1	518	1.30	10	5	ND	1	293	1	3	2	1	14.23	.013	2	5	5.62	3	.01	2	.03	.01	.03	1	4
ORO 4	1	12	5	22	.1	3	1	11	.34	8	8	ND	2	280	1	3	2	2	37.18	.007	2	7	.12	11	.01	41	.16	.01	.02	2	1
ORO 5	1	24	10	13	.1	12	4	474	.87	6	5	ND	2	2146	1	2	2	3	27.36	.005	4	20	.21	3	.01	2	.13	.01	.02	1	2
ORO 6	2	2	2	6	.1	7	1	236	.47	2	5	ND	1	68	1	2	2	1	4.92	.003	3	7	.89	3	.01	5	.01	.01	.01	1	4
ORO 7	1	2	5	6	.1	3	1	358	.83	20	5	ND	1	482	1	14	2	5	36.76	.005	3	4	1.83	2	.01	3	.01	.01	.01	1	4
ORO 8	1	4	3	2	.1	3	1	146	.18	8	5	ND	1	282	1	2	2	1	39.86	.005	2	2	.07	9	.01	2	.01	.01	.02	1	2
ORO 9	1	6	9	11	.5	10	2	288	1.23	236	5	ND	2	69	1	19	2	2	12.86	.030	4	17	.19	31	.01	2	.06	.01	.04	7	13
ORO 10	1	16	10	47	.1	41	13	449	2.68	11	5	ND	18	167	1	2	2	53	6.43	.185	34	63	2.24	43	.10	4	2.08	.02	.03	1	1
ORO 11	1	6	2	5	.1	5	2	178	.53	12	8	ND	4	288	1	2	2	2	39.40	.005	6	4	.25	14	.01	2	.08	.01	.03	1	1
ORO 12	1	9	15	11	.7	12	3	10	1.32	31	5	ND	4	11	1	39	2	2	.10	.008	14	28	.01	23	.01	4	.18	.01	.09	1	16
ORO 13	1	4	2	5	1.1	8	2	12	1.19	49	5	ND	4	20	1	57	2	2	1.01	.007	23	7	.02	20	.01	2	.19	.01	.08	1	27
ORO 14	1	8	6	9	.5	10	3	8	1.58	55	5	ND	6	10	1	35	2	2	.05	.011	14	28	.01	24	.01	3	.21	.01	.10	1	14
ORO 15	1	11	9	15	.1	11	4	6	1.69	42	5	ND	6	10	1	44	2	2	.09	.013	16	6	.01	23	.01	3	.23	.01	.12	1	22
ORO 16	1	16	15	42	.1	22	7	26	2.93	52	5	ND	10	45	1	64	2	3	.57	.033	37	21	.05	24	.01	4	.46	.01	.10	3	15
ORO 17	1	3	7	18	.8	9	2	9	1.57	52	5	ND	8	13	1	24	2	3	.07	.034	25	7	.02	25	.01	8	.28	.01	.11	1	18
ORO 18	1	1	5	4	.1	2	1	126	.39	10	5	ND	1	514	1	2	2	1	39.68	.004	2	1	.07	7	.01	3	.03	.01	.01	1	4
ORO 19	3	6	6	13	.1	10	1	44	.37	6	5	ND	1	71	1	2	2	1	.80	.001	2	7	.02	2	.01	2	.02	.01	.01	1	1
ORO 20	1	6	10	11	.1	6	3	438	1.84	15	14	ND	3	192	1	7	2	2	31.49	.008	4	4	3.17	8	.01	2	.04	.01	.03	3	5
ORO 21	1	6	8	7	.1	4	2	94	.46	13	5	ND	2	129	1	2	2	1	36.64	.004	4	2	.08	5	.01	2	.02	.01	.02	1	1
ORO 22	1	27	44	68	.1	156	28	419	3.71	12	5	ND	37	50	1	6	2	58	1.21	.272	195	115	1.42	17	.01	7	2.29	.01	.03	32	3
ORO 23	1	10	17	14	.1	33	8	19	5.65	15	5	ND	9	12	1	36	2	13	.67	.041	19	28	.07	14	.01	3	.49	.01	.06	12	3
ORO 24	1	13	15	12	.6	20	6	21	1.13	149	5	ND	11	13	1	42	2	7	1.18	.043	30	12	.02	28	.01	3	.42	.01	.11	4	29
ORO 25	2	90	26	62	.1	51	12	49	11.25	143	5	ND	14	67	1	23	2	7	1.45	.066	130	31	.02	16	.01	9	1.06	.01	.15	3	2
ORO 26	1	9	12	4	.1	6	1	8	.80	28	5	ND	4	8	1	26	2	4	.08	.007	16	8	.02	25	.01	5	.36	.01	.12	6	9
STD C AU-R	19	62	43	132	6.7	70	30	1028	3.97	42	23	8	37	48	20	16	22	61	.45	.085	39	54	.89	173	.06	35	1.92	.06	.14	11	490

APPENDIX B

ROCK SAMPLE DESCRIPTION TABLE

ROCK SAMPLE DESCRIPTION TABLE

Sample #	Description	Au(ppb)	Ag(PPM)	As(PPM)
1	White quartz-siderite (Limestone ?) 1/8" pyrite crystals	4	.1	10
2	Quartz vein Minor sericite schist & iron staining	1	.1	9
3	Grey limestone with calcite crystals Minor iron staining	4	.1	10
4	Soft, white calcite stream deposit	1	.1	8
5	White quartz vein Minor sericite in fractures	2	.1	6
6	White quartz vein Strong iron stained calcite in fractures	4	.1	2
7	Banded calcite crystals from a vug in limestone	4	.1	20
8	Brown iron stained, grey limestone	2	.1	8
9	Weakly vuggy & iron stained silicified limestone breccia	13	.5	236
10	Fresh outcrop diorite Hornblende & biotite crystals Quartz eyes	1	.1	11
11	Iron stained limestone breccia from a thrust fault	1	.1	12
18	Iron stained calcite in fractures of grey limestone	4	.1	10
19	Iron stained calcite in fractures of white quartz vein	1	.1	6

20	Brown iron stained calcite crystals	5	.1	15
21	White 1/4" calcite crystals in limestone	1	.1	13
27	Red-brown iron stained white limestone	3	3.3	7
28	Iron stained calcite in fractures in quartz vein	4	.1	2
29	1/2" quartz stringers in black crystallized limestone	7	.1	12
30	White 1" quartz stringers in grey limestone	1	.1	2
31	Highly vuggy iron stained grey limestone	7	.1	66
32	Red-brown iron stained grey limestone	1	.1	3
33	Strong red-brown iron stained white limestone	3	.1	5
34	Red-brown iron stained and pyrolusite stained recrystallized limestone	2	.1	3
35	Weakly silicified & red -brown iron stained limestone	1	.1	2
36	Brown iron stained bull quartz vein	1	.1	3
37	Limestone with iron stained calcite crystals in fractures	2	.1	2
38	Red-brown iron stained calcite crystals in fractures in limestone	1	.1	2
39	1" limestone fragments cemented by iron stained calcite	1	.1	135
40	1/2" calcite stringers cutting grey limestone	1	.1	2