

**REPORT OF 1998 FIELD ACTIVITIES
FUNDED UNDER YMIP GRANT #98-033**

PREPARED FOR:
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NOVEMBER 1998

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INTRODUCTION

This report prepared for Clayton Wilson, summarizes prospective exploration funded under Grant #98-033 of the Yukon Mineral Incentives Program (YMIP). A detailed summary of 1998 field activities and copies of field notes are included as Appendix A.

The Teslin Area (see Figure 1), which includes targets in and around Mt. Murphy ('Red Ridge') and the upper Sidney Creek valley, is discussed in detail. The prospector was only able to complete work in two of the originally proposed areas due to a potentially serious medical condition that restricted his ability to work in the field following the end of July 1998.

The writer assisted with field work in the area throughout the 1998 season and has reviewed research materials, field notes and rock samples supplied by Mr. Wilson.

TARGET A – RED RIDGE

PROJECT SUMMARY

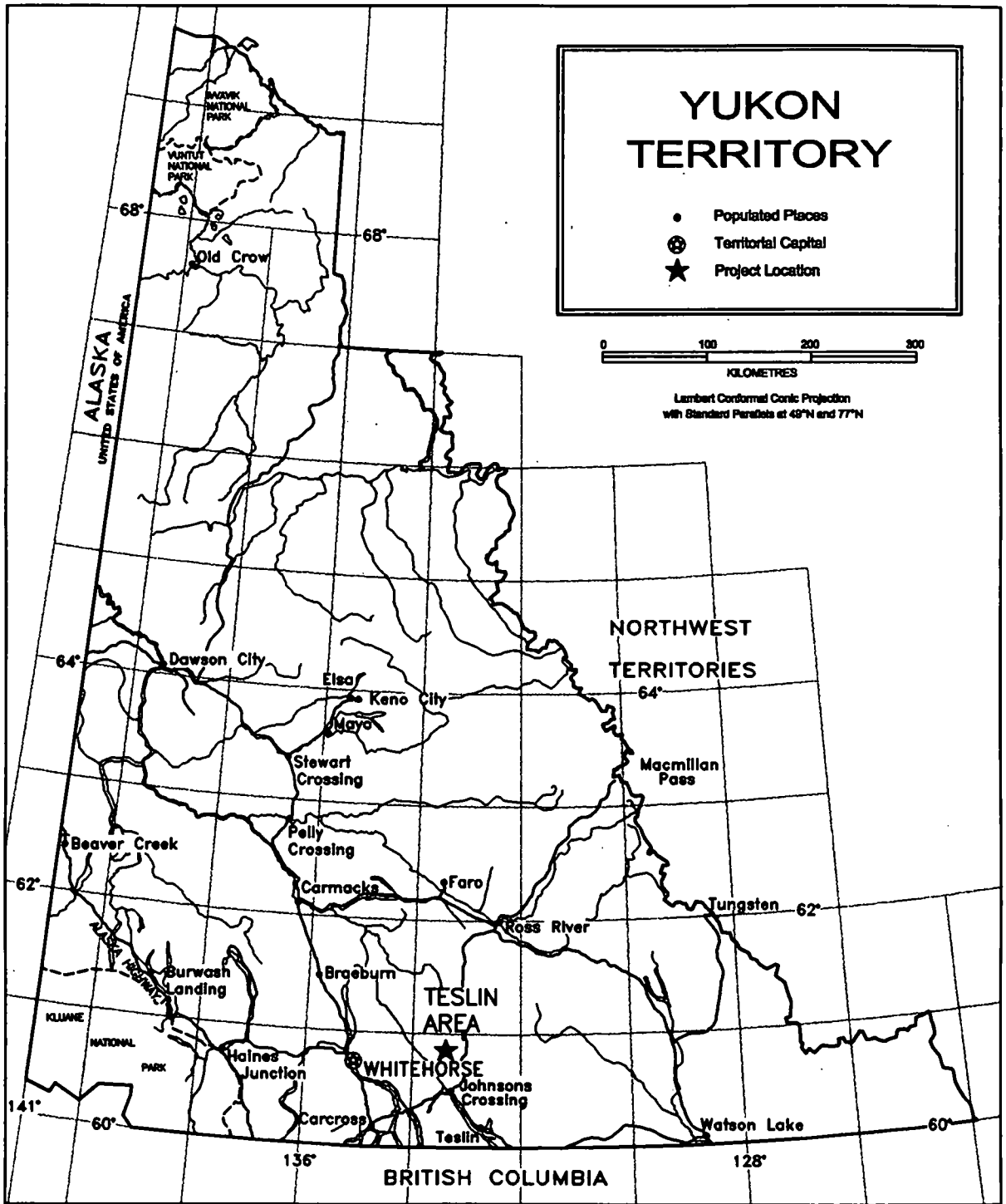
The Red Ridge target area focused on the far westerly extension of the same package of rocks that hosts the Bigtop occurrence, located approximately 20 km to the ESE. Proposed to followup numerous highly anomalous samples collected during the Federally sponsored RGS program, the project investigated an early Mississippian package of terrigenous clastic rocks associated with felsic volcanic rocks of the same age. Detailed ground prospecting and sampling identified volcano-sedimentary lithologies and alteration types that indicate the potential for massive sulfide mineralization in the area.

AREA LOCATION AND ACCESS

The target area is located in the vicinity of Mount Murphy in the upper Boswell River area near its confluence with Red Mountain Creek (see Figure 2), approximately 80km NNE from Whitehorse, Yukon. The area is shown on parts of Claim Map Sheets 105 C 13 and is in the Whitehorse Mining District.

Preferred access is via fixed wing aircraft from Whitehorse, utilizing a well maintained bush strip located 20 km east of the Teslin River at the confluence of the Boswell River and Falls Creek. A bush camp maintained by a local outfitter provided adequate accommodations in the area.

A well defined game trail provided easy, albeit lengthy, access to the most prospective part of this

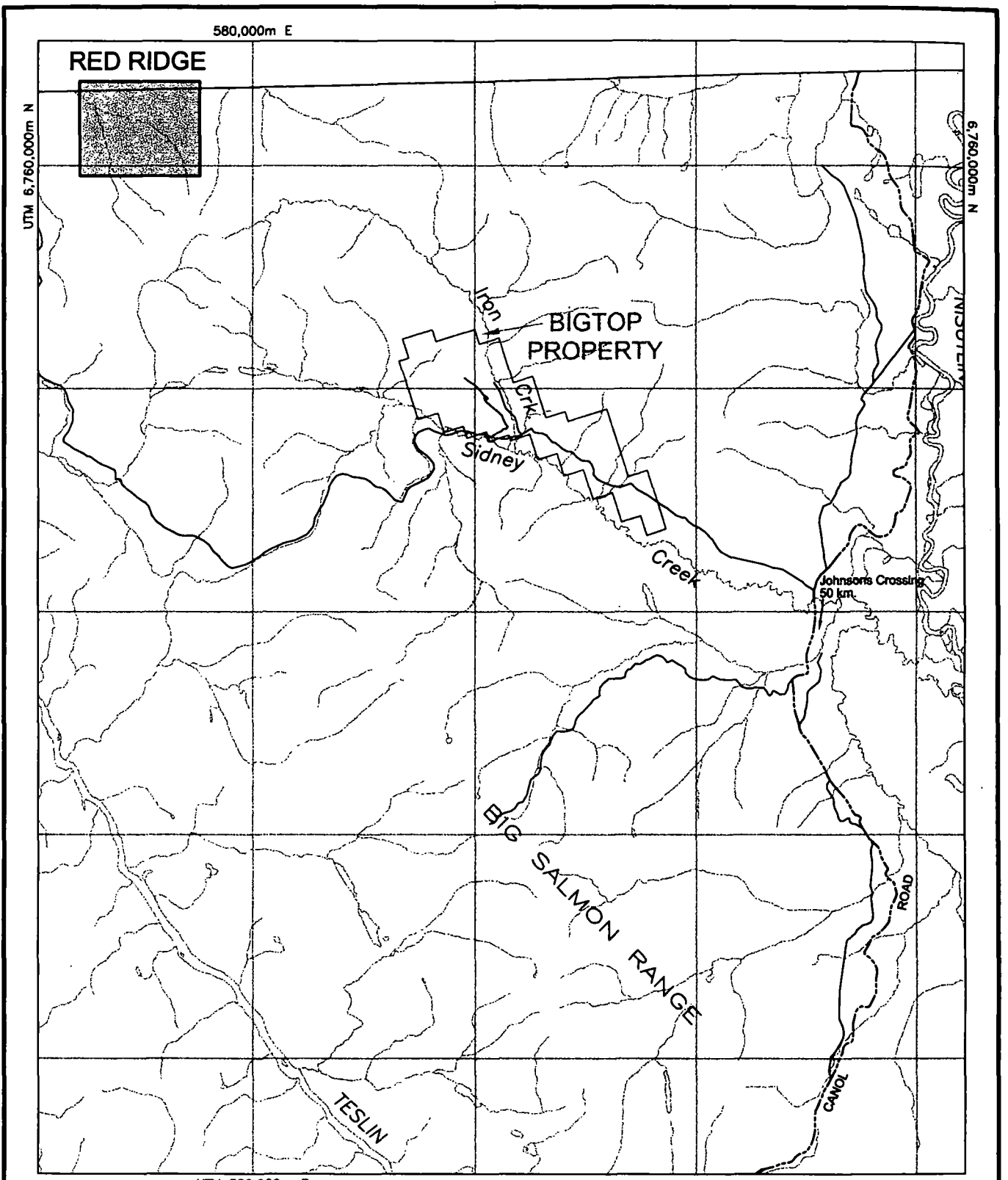


CLAYTON WILSON - YMIP 98-033

TESLIN AREA
Project Location Map

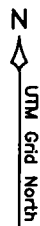
Steve Traynor, Geologist

SCALE: 1 : 6,000,000	FILE: CW98_2	DATE: 98.11.15
NTS: 105 C/14	DRAWN: Ⓞ _D ★	FIGURE 1



LEGEND

- stream, creek
- road, trail
- all weather road
- claim group boundary
- target zone



CLAYTON WILSON - YMIP 98-033		
RED RIDGE Target Location Map		
<i>Steve Traynor, Geologist</i>		
SCALE: 1 : 250,000	FILE: CW98_3	DATE: 98.12.06
NTS: 105 C	DRAWN:	FIGURE 2

target area starting from a cat road near the confluence of Red Mountain Creek and the Boswell River. Followup work in the area would be carried out most effectively from a fly camp situated within this part of the area. Mobilization of crew and equipment via fixed wing aircraft to the Boswell strip in conjunction with a helicopter supported setout would provide for the most efficient use of time and resources.

PREVIOUS WORK AND EXPLORATION HISTORY

Historically, this area has been explored for Ag-Pb veins at the turn of the century and in the early 1920's when a number of high grade showings were discovered in the Boswell River area. Some uranium exploration was carried out in the early 1970's in the area north of Mount Murphy.

In the mid 1970's the area just south of Red Mountain was explored for Pb-Zn mineralization with the resultant discovery of disseminated sulfide mineralization in one of three holes drilled into a package of schists and shales. Ongoing work by the same company in the surrounding area eventually led to the discovery of the Red Mountain Cu-Mo porphyry deposit, which extensive drilling has shown to contain subeconomic grades of mineralization. Since this time surprisingly little attention has been focused on the area despite its accessibility.

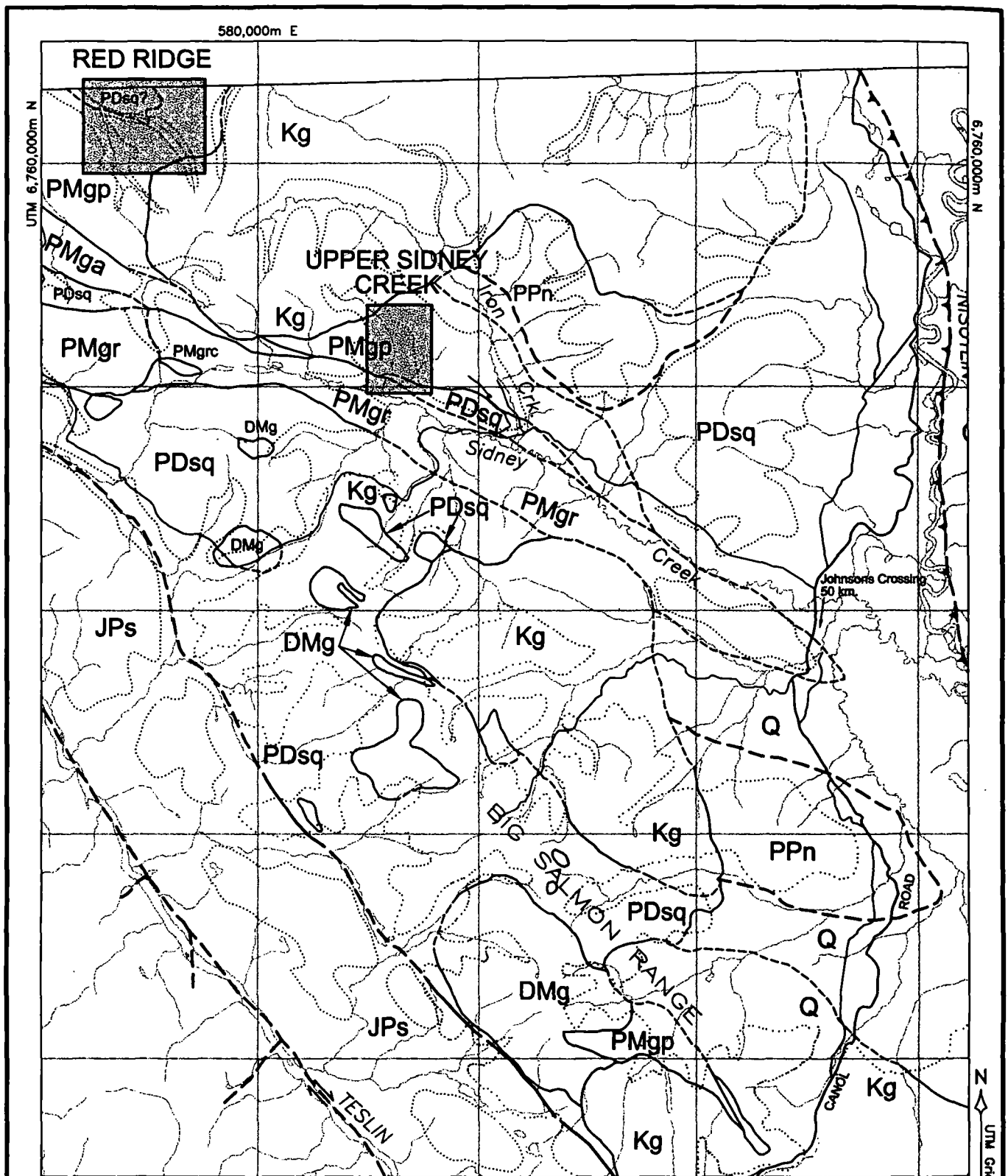
Recent mapping by S. Gordey et al (1974) of the Canada-Yukon Geoscience program during the period from 1990-1993 are reported on in two GSC Open Files, numbered 2768 and 2886.

REGIONAL AND GENERAL GEOLOGY

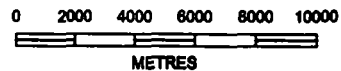
Regional mapping indicates that the area is predominately underlain by Mississippian aged graphitic phyllites and shales, interbedded with minor quartz-muscovite schists and quartzites. North and east of the area large bodies of Cretaceous aged granite intruded the layered rock. Field observations indicate an increase in the terrigenous component of these units west along the Boswell River valley. A small to mid sized quartz monzonite body hosts the Red Mountain deposit.

The volcano-sedimentary sequence found in the area is part of a broad band of Yukon-Tanana terrane which lies northeast of the Teslin structural zone (see Figure 3). Extensive thrust faulting along this zone in the late Mesozoic period has caused regional deformation and folding which is evident in the steeply inclined schistosity throughout the area.

Most of the rocks in the area especially those in the Red Ridge area (named for the numerous



- GEOLOGICAL LEGEND**
- Q** Glacial and alluvial deposits
 - Kg** Quartz monzodiorite
 - Jps** Laberge group metasediments
 - PMgr** Greenstone
 - DMg** Quartz diorite
 - PMgp** Carbonaceous metasediments
 - PDsq** Metasediments
 - PPn** Quartz rich schist to gneiss
- SYMBOLS & PHYSICAL FEATURES**
- Geological contact (known, approximate)
 - Fault (known, approx.)
 - Limit of outcrop
 - Stream, creek
 - 4-wheel drive road
 - Claim group boundary



CLAYTON WILSON - YMIP 98-033

**TESLIN AREA
Regional Geology**

Steve Traynor, Geologist

SCALE: 1 : 250,000	FILE: CW98_4	DATE: 98.12.06
NTS: 105 C/14	DRAWN: ♂ ♀	FIGURE 3

and prominent rusty red gossans) all showed some degree of alteration, generally evident as silicification, sulfidization and occasionally sericitization of the rocks.

DESCRIPTION AND SUMMARY OF WORK

Work in the area was completed during the period from June 25th to July 5th, 1998. A total of 11 days were spent completing orientation, reconnaissance and grassroots prospecting of the area, one day within this period was lost due to rain and another was spent in the recovery of an ATV that was wrecked during the course of these reconnaissances.

Traverses of 12 to 15 km a day were not uncommon during the course of the field work in this area and this somewhat limited the effectiveness of the program due to the amount of unproductive time spent walking to and from the area of main interest.

Despite these difficulties a total of 15 lithological grab samples were collected and a basic overall understanding of the local geology and conditions particular to the area was achieved. Followup work in this area would therefore be facilitated by the establishment of a fly camp at the location indicated on the Sample Location Map, Figure 4 (in the map pocket).

Sampling and prospecting in the area targeted the prominent gossans located during previous reconnaissance flights in the area and was specifically focused on the areas that produced the most significant stream sediment anomalies as reported from work completed by the GSC.

ANALYSIS AND RESULTS

Of the 15 samples collected and submitted for assay, samples 98R062 and 98R203 as well as 98R065, 104, 105 and 106 produced the most noteworthy results (see Appendices B and C).

Samples 98R062 and 98R203 collected from the area just south of Mount Murphy on the north side of the main drainage in the area (see Figure 4) both showed elevated Pb levels with Zn and Ba also elevated in 98R062. These samples were taken from quite close together in the stratigraphic sequence and each contained pyrite and galena as disseminations and thin laminae.

Sampling across the valley, in what is assumed to be higher in the the same stratigraphic sequence produced a number of elevated Ba responses over a fairly widespread area that also showed a high degree of sulfidization.

CONCLUSIONS AND RECOMMENDATIONS

The widespread occurrence of various types of alteration, the anomalous character of stream sediment samples collected from the majority of streams in the area, the presence of disseminated sulfide mineralization in the form of pyrite, galena and sphalerite and numerous lithologies containing elevated Ba values are all indicative of the potential of this area to host volcanogenic massive sulfides.

Detailed prospecting of this entire package of rocks from Red Mountain Creek as far east as the intrusive contact is recommended. To facilitate further exploration in the area a program involving the collection of detailed stream sediment data from the entire catchment area is proposed. Owing to difficulties in ready access to the area, a number of fly camps would likely prove to be the most efficient method of continuing to investigate the potential of this target. During the course of collecting stream sediments the drainage courses should be thoroughly prospected and any outcrop encountered should be sampled to provide a better picture of the various lithologies present in the area.

TARGET B

PROJECT SUMMARY

No exploration was completed in this area during the course of the 1998 field season.

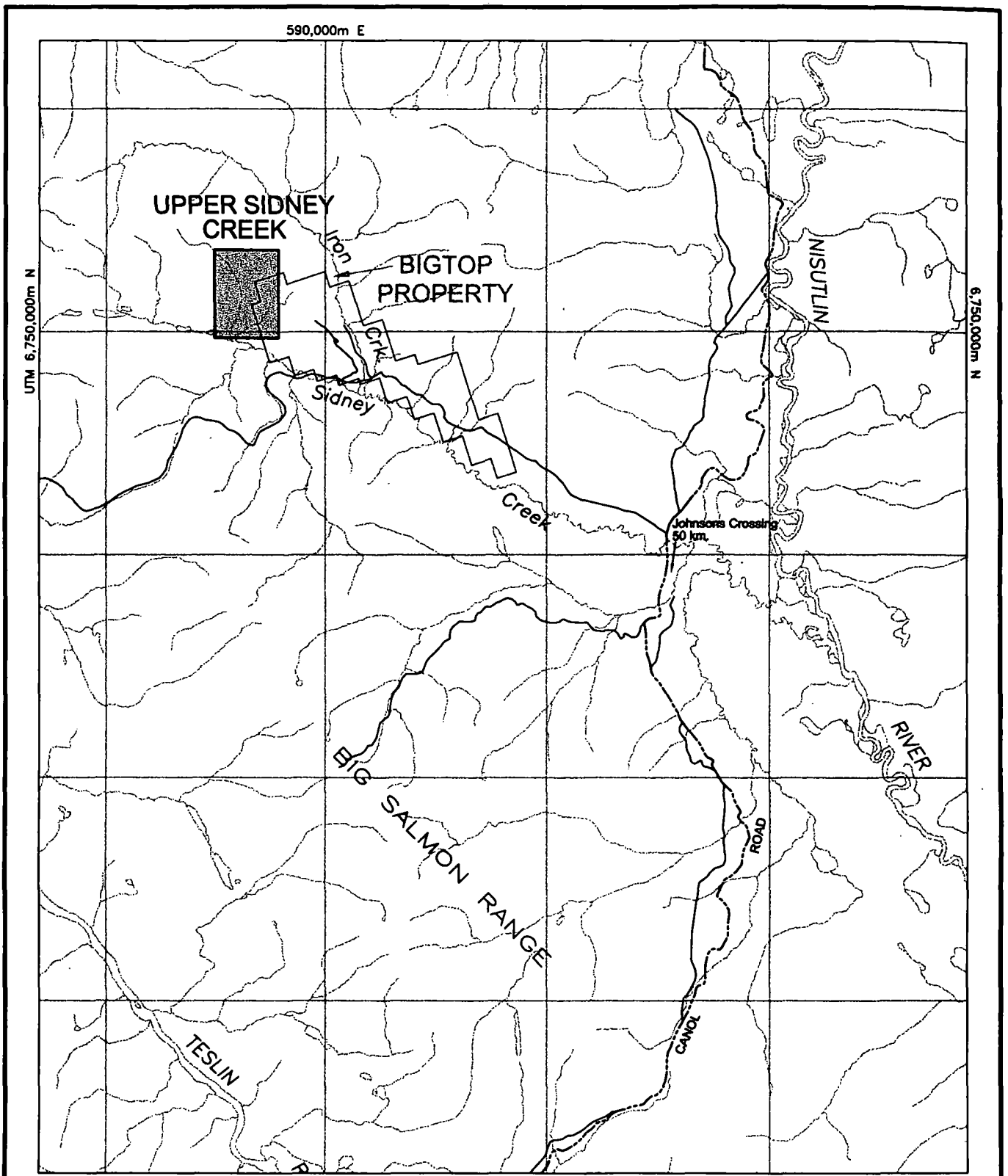
TARGET C – UPPER SIDNEY CREEK

PROJECT SUMMARY

Reconnaissance and prospecting of this target was hampered by extensive Quaternary cover in the area investigated in late July 1998. Prospective lithologies exposed on a WNW trending ridge situated across the northern edge of the target area showed good potential as a result of the degree and types of alteration present.

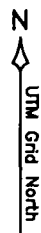
AREA LOCATION AND ACCESS

The target area lies at the beginning of the upper Sidney Creek valley immediately west of the Bigtop property (see Figure 5). Located in the Whitehorse Mining District, it is shown on Claim Sheet Map 105 C 14.



LEGEND

- stream, creek
- road, trail
- all weather road
- claim group boundary
- target zone



CLAYTON WILSON - YMIP 98-033		
UPPER SIDNEY CREEK Target Location Map		
<i>Steve Traynor, Geologist</i>		
SCALE: 1 : 250,000	FILE: CW98_5	DATE: 98.12.06
NTS: 105 C	DRAWN:	FIGURE 5

Access to the area is from Km. 53 on the South Canal Road, north of the Alaska Highway at Johnson's Crossing, along the Sidney Creek tote road for about 20 km. Past this point a number of old pack trails dating from the late 1920's can be used to reach the lower ends of Top and Little Beaver Creeks (local names) near their confluence with Sidney Creek. A cat road located approximately 2 km past Iron Creek can also be followed to the western end of the Bigtop ridge and from there open hiking above treeline provides relatively easy access to the headwaters of both Top and Little Beaver Creeks.

PREVIOUS WORK AND EXPLORATION ACTIVITY

The Sidney and Iron Creek valleys have historically seen intermittent placer activity since the turn of the century with considerable work focused on Iron Creek during the early 1930's. During the 1960's and early 1970's much of both creeks was held under claim or lease. Today a number of smaller outfits are still active on the lower half of Iron Creek.

Prior to the staking of the Bigtop property which began late in 1995 the area had seen only limited activity related to the staking of Quartz claims. The Bigtop property currently comprises 176 claims and is being explored for volcanogenic massive sulfide mineralization.

The rest of the Sidney Creek valley has received very little interest over the years although it represents one the most accessible parts of the south central Yukon and has seen only limited staking of Quartz claims, most of which lapsed after the first year.

REGIONAL AND GENERAL GEOLOGY

The rocks underlying the Sidney Creek valley are mainly metasedimentary and include argillites, phyllites, limestones, slates, schists and quartzites of upper Proterozoic to Mississippian age of the Nisutlin subterrane. Interbedded in the metasediments are felsic to mafic volcanic and tuffaceous horizons, and meta-plutonic units. The volcano-sedimentary sequence is part of the broad Yukon-Tanana terrane which lies northeast of the complex Teslin Suture zone (refer back to Figure 3). North and south of the Sidney Creek area large bodies of Cretaceous granite intrude the layered rocks. Conformable lenses and sills of greenstone, probably Triassic in age, occur in profusion in places in the metasediments (especially in the lower Twin Creek area) and a few narrow lamprophyre, diorite and quartz-porphphy sills, probably Jurassic or younger, are present locally. Near the granitic intrusions, characteristic replacement mineralization is

developed in calcareous rocks. In the late Mesozoic, extensive thrust faulting along the Teslin Suture caused regional ductile deformation forming tectonites. A later compressional episode caused deformation and folding.

Recent mapping by Gordey and Stevens (1974) of the Canada-Yukon Geoscience program during the period from 1990-1993 is reported in two GSC Open Files, numbered 2768 and 2886.

DESCRIPTION AND SUMMARY OF WORK

Work on this target was completed during the 5 day period from July 27 to July 31, 1998. Detailed prospecting of the area shown in Figure 6 between Top and Little Beaver Creek and the Sidney Creek valley and the high ground overlooking the area was carried out during this period.

Investigation revealed that most of the area is cover by a continuous blanket of glacial till and recent alluvial deposits. The only outcrop exposures occurred in the lowest reaches of Little Beaver Creek and on the WNW trending ridge that forms the high ground across the northern part of the area.

Two grab samples were taken off the upper ridge for analysis and lithological comparison, no other sampling was completed due to limited outcrop exposure. The outcrop in the lower part of Little Beaver Creek was not sampled as no significant mineralization was noted in this area. One section of the creek above this did show a significant accumulation of iron oxide in the peat bogs above the first beaver dam, but no outcrop could be found in or beyond this area.

ANALYSIS AND RESULTS

Both samples collected from the area of the upper ridge showed moderate to strong alteration, particularly in the case of sample 98R351 which was heavily chloritized and silicified, with analytical results indicating strong depletion of Ca and Na (refer to Appendicies B and C). This alteration is suggestive of the type that accompanies active fluid pathways often found in areas of known massive sulfide deposits and indicates the potential for VMS style mineralization in the overlying rocks.

CONCLUSIONS AND RECOMMENDATIONS

Continued prospecting is warrented in this area and may be assisted with the use of ground geophysics to locate areas of highest priority. Electromagnetic and magnetic geophysical surveys are the primary tools used in the exploration for this type of target model and may be useful in locating higher

concentrations of sulfide mineralization within or adjacent to the argillite horizons detected during this reconnaissance work.

TARGET D, E and F

PROJECT SUMMARIES

Due to health considerations, the propector was unable to complete any exploration in these areas during the 1998 field season. Work on Target E which is considered a highly prospective area was actually completed by Wade Carrell, a part-time prospecting partner of Mr. Wilson, the result of which are reported in separate report titled 'Report of 1998 Filed Activities Funded Under YMIP Grant #98-034'.

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APPENDIX A

**SUMMARY OF PROSPECTING ACTIVITIES
AND
FIELD NOTES**

SUMMARY OF 1998 FIELD ACTIVITIES – CLAYTON WILSON, YMIP 98-033

RED RIDGE TARGET AREA

- June 25, 1998 -Mobilization to Boswell River Camp (CRW & WSC in A.M. and SDT in P.M.).
-Orientation of access trail and reconnaissance of creek crossings (CRW and WSC).
-WSC, CRW (and SDT).
- June 26, 1998 -Prospecting and grab sampling of RGS multielement geochemical target on southwest face of Mount Murphy.
-CRW, WSC and SDT.
- June 27, 1998 -Traverse and prospect ridge ('Red Ridge') opposite yesterdays target to the south.
-Detailed prospecting and grab sampling of extensively gossanous scree slope on north facing slope of main body of ridge.
-CRW, WSC and SDT.
- June 28, 1998 -Traverse to prospect gossanous outcrop on lower part of first left limit tributary of Red Mountain Creek ('Red Ridge' Creek).
-Sampled pophyritic intrusive sill for comparison with Red Ridge intrusions.
-CRW, WSC and SDT.
- June 29, 1998 -Prospected ridge northeast of Boswell River and Red Mountain Creek confluence (WSC and SDT).
-Prospected and panned Boswell River east of Red Mountain Creek (CRW).
-CRW, WSC and SDT.
- June 30, 1998 -Prospected lower end of 'Red Ridge Creek' (CRW).
-Prospected Boswell River valley west of Red Mountain Creek (SDT).
-Prospected open ground on lower north face of Red Mountain (WSC).
-CRW, WSC and SDT.
- July 1, 1998 -Rain day and resupply flight in mid morning.
-CRW, WSC and SDT.
- July 2, 1998 -Planned to prospect headwaters of Red Mountain Creek (Target B).
-Wrecked one of the 3 wheelers navigating around Red Mountain (WSC and SDT).
-CRW, WSC and SDT.
- July 3, 1998 -Returned to Red Mountain and recovered 3 wheeler.
-CRW and SDT.
- July 4, 1998 -Prospected and sampled open ground on north side of Boswell River.
-Steady rain by the later part of afternoon, returned to camp to breakdown.
-CRW, WSC and SDT.
- July 5, 1998 -Packed up and closed down camp.
-Returned to Whitehorse via two 206 flights by mid afternoon.
-CRW, WSC and SDT.

UPPER SIDNEY CREEK TARGET AREA

- July 27, 1998 -Reconnaissance of historic hiking trail in Sidney Creek valley.
-Prospect benches on north side of Sidney Creek up to Top Creek.
-CRW, SDT and WSC.

SUMMARY OF 1998 FIELD ACTIVITIES – CLAYTON WILSON, YMIP 98-033

UPPER SIDNEY CREEK TARGET AREA – Continued

- July 28, 1998 -Prospected down Top Creek from Bigtop ridge to the confluence with Sidney Creek.
-CRW, SDT and WSC.
- July 29, 1998 -Prospected upper area between Top Creek and Little Beaver Creek.
-CRW, SDT and WSC.
- July 30, 1998 -Prospected lower and middle sections of Little Beaver Creek (1st creek past Top Creek).
-CRW, SDT and WSC.
- July 31, 1998 -Prospected ridge west of Bigtop property and completed limited lithogeochemical sampling of the area.
-CRW, SDT and WSC.

No. Baswell River Recon.

Date May 25 Page

SIB June

got together fuel etc
for flight into Baswell
river

loaded landed at the
air strip 9:00

set up camp fueled
up truck

checked access to
the left limit of reef
summit creek, south
west face of summit
scrub

plugged in car
access trail returned
to camp.

No. Baswell River Recon.

Date May 26 Page

SIB June

traveled into the area
where red eggs were had
been sighted during and
briefly released in the spring
got to the area at
2:30 p.m. inside to where
perched the red eggs were
gone I prospected on
hills just south of them
on a ~~rock~~ scree slope.
this area contained most
of a fallen volcanic
landed specimens.
white talcose with
black bands
sample taken # R 98203
this sample appears to
contain zircon in quartz
then deposits. Returned to
camp at 9:30 p.m.

Part cloudy hail

No.

Date

June 27

Page

ripped back into the
same area as yesterday
checking the outcrop along
the opposite valley.
there is a lot of red
gossens along this slope.

the gossens come from
iron staining
- they are on west edge of
graphite just around the
line.

the gossens here contain
about 2-5% pyrite but
no mineralization was found
inly hold was a purple
dike and several quartz
bands.

the rest was felsic volcanic
and graphite shale.

No.

Date

Red Ridge Creek

Page

June 28

No. Layer limit Roswell
Date June 29 Page Five

prospected lower
branch of Roswell River
above the confluence of
red mountain creek.

most rock in the creek
bed is large rounded
granite boulders this is
a fast moving creek so
any flint in the
sand is scattered, it
is very fine and hard
to identify even under
26x

unfortunately per
concentrating dig net
work within them some
fine gold in a few
pans, 6-15 colors
per.

Sunny Hot

No. Layer Red Mountain creek
Date June 30 Page

traveled up red mountain
creek from Roswell up
up stream checking the
area that was impassable
on the 28 (cut off by a
canyon).

very little outcrop is
exposed. Now this canyon
is a gap in the
glacial till.

some shist is exposed
with very fine quartz
cross bedding $\frac{1}{8}$ - $\frac{1}{4}$ "

this area is very rough
and difficult to work
in.

Cloudy Rain

No.

Basswood Camp

Date.

July 1

Page

No.

Date.

July 2

Page

Rain all day.
 airplane finally came
 in with fuel and
 food supply on his
 second attempt.

rain finally stopped
 at around 2:30 so used
 the day planning the
 next few days work.

traveled by 3 upbeers
 up past red mountains
 to check up above ~~the~~
 on the head waters of
 red mountains creek
 work and Steve rolled
 a spare wheel of the
 side of the mountain.
 Also, with people had
 medical attention cuts,
 scrapes, bruises,
 and possibly broken
 ribs returned to camp.

Sunny

No. Red Mountain
Date July 3 Page

Spent the day
recovering the survey
wheels, down about
a 350 paces.

found enough cable
at red mountain camp
to reach the lake

returned to camp 5:30

Survey Hat

No.
Date July 4 Page

Proceeded the way
on the north side of
Barrett River.
The out crops along
this area consist of
quartz with interbedded
of quartz and the quartz
is stained yellow etc.
a pretty rich and
streaks small crystals
no mineralization was
found except one sample
which contained a
few small grains of
pyrite and chalcopite.

Rain in the afternoon.
Returned to camp.

No.

Popple river

Date

July 5

Page

closed down the
camp. cleaned up
- top pick up
- to get two trips
to ~~take~~ remove all the
supplies
- loaded in White top
cleaned up and planned
for next trip.

JOB... BOSWELL RIVER RECON

DATE... JUNE 25/98... PAGE... 01

MOBILIZED INTO BOSWELL
RIVER CAMP

CLAY & I FOUND THE
HORSE TRAIL INTO THE
LEFT LIMIT OF RED
MOUNTAIN CREEK.

RETURNED TO CAMP AT
7:PM

GOT SET UP FOR STEVE'S
ARRIVAL AT 9:PM.

PARTY CHIEF

C. WILSON

WEATHER

BADLY CLOUDY - WARM

W
WADO

JOB. BOSWELL RIVER RECON

DATE. JUNE 26/98 PAGE 02

PROSPECTED THE SOUTH
WEST FACE OF MOUNT
MURPHY

I TOOK SAMPLE #98R
103 FROM OUTCROP NEAR THE
TOP OF A GOSSAN ON THE
WEST SIDE OF OF THE FIRST
PUP ON MOUNT MURPHY.

SAMPLE IS A VOLCANIC
SEDIMENTARY MIX WITH 5%
SULFIDE MINERALIZATION.

RETURNED TO CAMP BY
9:PM



PARTY CHIEF

WEATHER

C. WILSON
BROKEN CLOUD,
WARM

JOB. BOSWELL RIVER AREA

DATE. JUNE 27/98 PAGE 03

PROSPECTED RED RIDGE
SOUTH WEST OF MOUNT
MURPHY.

I TOOK SAMPLE #98R 104
FROM AN OUTCROP OF
DRUSY ARGILITE BELOW A
FELSIC UNIT STRIKE SAMPLED.

STRIKE IS 115° & DIPS
 61° SOUTH

TOOK SAMPLE #98R 105
50 METERS DOWN SLOPE
& 100 METERS NORTH WEST
OF LAST SAMPLE.

SAMPLE IS DRUSY ARGILITE

SAMPLE #98R 106 TAKEN
FROM FLOAT AT TOP OF SCREE
SLOPE.

PARTY CHIEF

WEATHER

C. WILSON
BROKEN CLOUD - WARM



JOB... BOSWELL RIVER REGION

DATE... JUNE 28..... PAGE... 04

STEVE, CLAYTON & I PROSPECTED
THE LOWER CANYON ON THE
LEFT LIMIT OF RED MOUNTAIN
CREEK.

THE UPPER 20 METERS OF
OUTCROP IS A MIX OF FELSIC
VOLCANICS & SEDIMENTS WITH
ABOUT 2% SULFIDES.

THE STRIKE & DIP ARE THE
SAME AS RED RIDGE.
115° STRIKE & 61° DIP SOUTH.

THE REST OF THE CANYON IS
MICACIOUS SCHIST WITH QUARTZ
BLEBS & URINETS.

THE SCHIST UNIT IS OVERLAIN
BY A SILL OF PORPHONITIC
ANDASITE.

PARTY CHIEF

C. WILSON

WEATHER

BROKEN CLOUD - HOT



JOB... BOSWELL RIVER AREA

DATE... JUNE 29/98..... PAGE... 05

I PROSPECTED THE RIDGE
NORTH OF THE CONFLUENCE
OF RED MTN. CREEK WITH
BOSWELL RIVER.

THE RIDGE IS CUT BY A SMALL
CREEK THAT RUNS SOUTH TO
JOIN BOSWELL RIVER.

THE UPPER END OF THIS CREEK
FLOWS OFF GRANITE.

THE GRANITE IS BEDDED WITH
PORPHONITIC ANDASITE WITH
LARGE QUARTZ REYS.
THIS UNIT STRIKES 340° &
DIPS 29° SOUTH.

I PROSPECTED DOWN STREAM.

THE ANDASITE GRADES INTO A
FINE GRAINED TUFF 100 METERS
BELOW THE GRANITE CONTACT.

PARTY CHIEF

C. WILSON

WEATHER

SUNNY - WARM



JOB BOSWEL RIVER AREA
DATE JUNE 29/98 PAGE 06

THE TUFF UNIT CONTINUES
DOWN SLOPE FOR 300 METERS.

AT THIS POINT THE CANYON
WIDENS AS IT ENTERS BOSWEL
RIVER VALLEY.

FLOAT ON THE GRASSY SLOPES
CONTINUES TO BE SOLELY
ANGULAR PIECES OF TUFF.

I PROSPECTED NORTH OF THE
ROAD FROM RED MTN CREEK
TO THE BOSWEL AIR STRIP.

I FOUND SEVERAL OUTCROPS
OF MICACIOUS SCHIST WITH QUARTZ
VEINS & VEINLETS.

A PORPHONITIC ANDASITE DIKE
10 METERS WIDE SEPARATES THE
MICACIOUS SCHIST FROM A MORE
HEMATITE RICH SCHIST, ONE
KILOMETER EAST OF THE AIR STRIP.



PARTY CHIEF

WEATHER

C. WILSON

SUNNY - HOT

JOB BOSWEL RIVER REGION
DATE JUNE 30/98 PAGE 07

I PROSPECTED THE LOWER
NORTH FACE OF RED MOUNT
AIN, JUST SOUTH OF
BOSWEL RIVER & WEST OF
RED MTN CREEK.

THERE IS AN EXPOSURE OF
GREENSTONE THREE METERS
WIDE JUST BELOW THE CREST
OF THE RIDGE. 1380 M. ELEVATION

THE GREENSTONE IS BEDDED
WITH PORPHONITIC ANDASITE TO
THE NORTH.

THE PORPHONITIC ANDASITE GRADUALLY
INTO A FINE GRAINED TUFF
WHICH HAS SMALL HORNBLENDE
CRYSTALS AS WELL AS QUARTZ
VEINS & FELDSPAR CRYSTALS.
EXPOSED INTERMITTANTLY DOWN
TO 1020 M. ELEVATION

PARTY CHIEF

WEATHER

C. WILSON

SUNNY - HOT



JOB. BOSWELL RIVER REGION

DATE. JUNE 30 1988 PAGE 08

I CONTINUED PROSPECTING
DOWN TO 980 METERS ELEVATION
WHERE I LOST OUTCROP UNDER
THE DIRT OF BOSWELL VALLEY.

THE LAST OUTCROP WAS TURF.
HOWEVER I WAS FINDING A LOT
OF ANGLIAN FLOAT, THAT IS A
MIX OF SILICIOUS GRAPHITIC SHALE
& QUARTZ

ALL OF THE ROCK UNITS HAVE
THE SAME STRIKE OF 280°
& DIP 30° SOUTH

RETURNED TO CAMP BY
5:20 PM

RAIN STRUCK 5:30; WOW
IT'S WFT.



PARTY CHIEF

C. WILSON

WEATHER

SUNNY - MORNING
RAIN - EVENING

JOB. BOSWELL RIVER REGION

DATE. JULY 1 1988 PAGE 09

RAINED ALL DAY.

PHONE CAME IN AT

11:AM TO RESUPPLY.

HAPPY CANADA
DAY!

PARTY CHIEF

C. WILSON

WEATHER

RAIN



JOB. BOSWELL RIVER REGION

DATE. JULY 2/98. PAGE 10

I GOT WRECKED, ROLLING
THE THREE WHEEL A.T.V.
OFF THE EAST SIDE OF
RED MOUNTAIN.

MY CHUTE IS SHOT.

wade

PARTY CHIEF.....

C. WILSON

WEATHER.....

JOB. BOSWELL RIVER

DATE. JULY 3/98. PAGE 11

WADE RECOVERED IN
CAMP. DUE TO BRUISED
LEG, ETC.

PARTY CHIEF.....

C. WILSON

WEATHER.....

wade

JOB..... BOSWEL RIVER AREA
DATE..... JULY 4 1988..... PAGE..... 12.....

CLAYTON, STEVE & I
PROSPECTED THE RIDGE NORTH
OF BOSWEL RIVER & RED
MTN. CREEK

STEVE TOOK SAMPLES OF
THE SCHIST UNITS FOR LITHO-
GEOCHEM.

RETURNED TO CAMP 4:30
PM - RAINING.

 NW
wade

PARTY CHIEF.....

WEATHER.....

C. Wilson
CLOUDY - RAIN

JOB..... BOSWEL RIVER REGION
DATE..... JULY 5 1988..... PAGE..... 13.....

BROKE DOWN CAMP

* RETURNED TO TOWN.

PARTY CHIEF.....

WEATHER.....

C. Wilson
SUNNY - CLEAR

 NW
wade

JOB... Boswell River Recon.
DATE... June 26/98... PAGE.....

⊗' 60°59' 84N
133°36' 84W 5400ft.

Grossly scree slope
containing a variety of phylites,
tuffaceous(?) volcanics and black
siliceous glassy rock that appears
to carry abundant disseminated
sulfides and sphalerite.

Took grab samples

98R061 & 98R062

- Noted porphyritic dykelets
crosscutting volcanic-sedimentary
Package. Granitic to
granodioritic in composition.

NW
waco

PARTY CHIEF

WACO

JOB.....
DATE... June 27, 1998... PAGE.....

hiked up middle ridge.
- Contact with graphitic shale
from ridge crest south.
Mixed felsics and shales
argillites north ~~and~~ down
scree slope.

Took samples 98R063
and 98R064 of felsic material

98R064 is more siliceous and
contains more sulfides than 98R063.

60°58' 94N

133°37' 00W

Altitude 5353 feet.

PARTY CHIEF

WACO

115/63 & S

NW
waco

JOB.....

om

1000000

DATE.....

PAGE.....

- Sample 98R065, highly gossanous. Very silicified lg. angular float block. Near source as other smaller pieces of same matrix. Silicified argillite/felsic mix with ~~sub~~ abundant sulfides.

- Float Sample 98R066 - Brecciated graphitic shale and qtz vein with enclosed breccia pieces. Qtz has altered shale along chill margin to green acicular mineral, possibly actinolite.

NW
wade

PARTY CHIEF.....

WEATHER.....

JOB.....

DATE.....

June 28 / 98

PAGE.....

- Traverse to check gossanous etc on lower Red Ridge creek below fork.

Country rock is a quartz biotite schist, with approx same orientation as Red Ridge area. Numerous intrusive sills of more mafic material noted. Sampled large X-cutting dike that is a fine grained tan colored matrix ~~with~~ with feldspar phenocrysts and ~~of~~ abundant qtz ~~at~~ eyes.

Sample 98R067

PARTY CHIEF.....

WEATHER.....

NW
wade

JOB.....

DATE June 29 / 98 PAGE.....

Prospected with W. Carroll
in area of old AG claims
of Boswell River Mines. Attempted
to locate Phyllite / tuff
contact. Located tuff that
was buff gray with feldspar
phenocrysts. Failed to identify
dark green tuff previously
mapped, maybe further west.
Minor gossoms with limited
sulfide content were noted.



PARTY CHIEF.....

WEATHER.....

JOB.....

DATE June 30 / 98 PAGE.....

Worked Boswell River valley
downstream from confluence with
Red Mountain Creek on
either side of road
crossing. Limited exposure
as valley widens at this
point, was unable to identify
any significant contact
relationships. Abundance
of granitic cobbles and
variety of previously identified
rock types

PARTY CHIEF.....

WEATHER.....



JOB.....

DATE.....

July 1, 98

PAGE.....

Rain Day (also Canada day) Steady rain till 3 or 4, slowed down enough to get flight in with fuel and more supplies late in morning.

~~Cleared by dinner time.~~

~~Wade and I~~

Wade

W
wade

PARTY CHIEF.....

WEATHER.....

JOB.....

DATE.....

July 2, 98

PAGE.....

Truck and Bulheelers to camp area on Red Mountain and then planned to take Bulheelers to anomalous area at head of ~~Red~~ Red Mountain Creek. Hadn't gone more than 1 km before Wade and I hit rock on badly sloped section of road and tossed the Bulheelers and ourselves off the mountain. Wade ~~and I~~ suffered bruised ribs and multiple contusions and minor convulsions. My damage limited to basket ~~and~~ right leg.

PARTY CHIEF.....

WEATHER.....

W
wade

JOB.....

DATE.....

July 3 198

PAGE.....

Wade stayed in camp recovering. Clayton, myself and Margam returned to Red Mountain in the truck to recover 3 wheeler.

Scavanged roll of drill casing recovery cable from old camp and finally dragged the old whale back up to the road. Damage appeared extensive, but was limited to rounding off of handle bars and front and rear fenders. Returned to camp and tripped damaged parts off bike to take back to town for repair.



 PARTY CHIEF
 WEATHER

JOB.....

DATE.....

July 4 198

PAGE.....

Prospected open ground on north side of Boswell River. Predominately gtz biotite (sericite?) schists, with minor terrigenous clastic rocks. At times dark green tuffaceous(?) clastic unit interbedded. Sampled 100m ~~off~~ section that could possibly contain piemontite.

Grab samples 98068, 98069 and 98070 taken in this section. Quit at 4pm when rain started.

PARTY CHIEF

WEATHER



JOB.....

Little Beaver Creek Recon

DATE.....

July 30, 1988 PAGE.....

- Named (31) prospected and
work area of lower ~~canyon~~ ^{creek}
just above 1st canyon

Intersected canyon with
 $\frac{1}{2}$ km at confluence. Wide
intermediate to mafic sequence
predominates up to above
canyon. Flattens out for
3 or 4 km and is covered by
fairly continuous alluvial cover.
Walked creek for 1.5 km at
about 1 km above waterfall
there was a new Beaver Dam.

Extensive iron staining in ponds.

NW
wadePARTY CHIEF.....
No STE
WEATHER.....

JOB.....

July 31, 1988 PAGE.....

DATE.....

Prospected main ridge
west of Big Top property

98R350 (float, new source)

Well gossamed shales and
argillites. Sample appears
brecciated (?) with
abundant sulfides (incl.
chalcocite and sphalerite?)

Abundant sericite noted
at times.

PARTY CHIEF.....

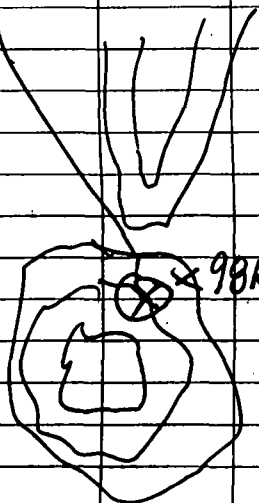
WEATHER.....

NW
wade

JOB.....

DATE..... PAGE.....

306/28°S



98R350



PARTY CHIEF.....

WEATHER.....

JOB.....

DATE..... PAGE.....

98R351

Chloritically altered
~~See~~ silicified argillite
 Aluminant ^{5%} Sulp ~~wt.~~ Also
 with sericite



PARTY CHIEF.....

WEATHER.....

APPENDIX B

ROCK SAMPLE REPORT

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	ANALYTICAL HIGHLIGHTS
98R061	Area A	Shaly, silicified argillite with 2 – 3 % sulfides.	
98R062	Area A	Darker, biotite rich argillite with lighter felsic (?) bands. Disseminated sulfides throughout.	Sampled contained elevated levels of Pb Zn and Ba.
98R063	Area A	Well gossaned quartz>>sericite schist with disseminated sulfides and quartz eyes (?).	
98R064	Area A	Felsic containing fragments of argillite and 3% sulfides. Shows a somewhat mottled texture.	
98R065	Area A	Thinly laminated felsic, possibly a quartzite/argillite mix. Contains disseminated sulfides throughout.	Contains Ba values in excess of normal background values.
98R066	Area A	Highly altered, brecciated graphitic shale with greenish alteration product (epidote?) in chill margins of quartz veins.	
98R067	Area A	Fine grained apalite (?) dike material. Tan colored with quartz phenocrysts. Slightly gossanous.	
98R068	Area A	Quartz mica schist showing deep reddish stain that is was originally thought to be piedmontite.	
98R069	Area A	Quartz mica schist showing deep reddish stain that is was originally thought to be piedmontite.	
98R070	Area A	Quartz mica schist showing deep reddish stain that is was originally thought to be piedmontite.	
98R103	Area A	Mottled felsic with darker biotite rich bands carrying 3% sulfides.	
98R104	Area A	Very similar to 98R065.	Contains Ba values in excess of normal background values.
98R105	Area A	Massive, black very silicified argillite.	Contains Ba values in excess of normal background values.
98R106	Area A	Dark black, highly siliceous volcanic (?) containing abundant lighter and sulfide fragments. Near source scree.	Contains Ba values in excess of normal background values. Au value of 43 ppb
98R203	Area A	Felsic volcanic showing thin sulfide laminations and with visible galena along fracture surfaces.	Moderately elevated Pb values.
98R350	Area C	Well gossaned shaly argillite. Sample is brecciated with abundant sulfides and with abundant sericite in the area.	Moderately elevated Cu values.
98R351	Area C	Chloritically altered and silicified argillite with 5% disseminated sulfides and some sericite.	Shows strong Ca and Na depletion.

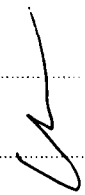
APPENDIX C

**CERTIFICATES
OF
ANALYSIS**



Intertek Testing Services
Bondar Clegg

Geochemical
Lab
Report



TANANA EXPLORATION
MR. STEVE TRAYNOR
214 ALSEK RD
WHITEHORSE YT Y1A 3T5

+

+

+

+



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

REPORT: V98-01142.0 (COMPLETE)

REFERENCE:

CLIENT: TANANA EXPLORATION

SUBMITTED BY: S. TRAYNOR

PROJECT: RED RIDGE

DATE RECEIVED: 10-JUL-98 DATE PRINTED: 29-JUL-98

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD																		
980723	1 Au30 Gold	15	5 PPB	Fire Assay of 30g	30g Fire Assay - AA	980723	37 SiO2 Silica (SiO2)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	2 Ag Silver	15	0.5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	38 TiO2 Titanium (TiO2)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	3 Cu Copper	15	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	39 Al2O3 Alumina (Al2O3)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	4 Pb Lead	15	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	40 Fe2O3* Total Iron (Fe2O3)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	5 Zn Zinc	15	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	41 MnO Manganese (MnO)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	6 Mo Molybdenum	15	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	42 MgO Magnesium (MgO)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	7 Ni Nickel	15	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	43 CaO Calcium (CaO)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	8 Co Cobalt	15	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	44 Na2O Sodium (Na2O)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	9 Cd Cadmium	15	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	45 K2O Potassium (K2O)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	10 Bi Bismuth	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	46 P2O5 Phosphorous (P2O5)	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	11 As Arsenic	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	47 LOI Loss on Ignition	2	-2.00 PCT	Ignition 1000 Deg.	GRAVIMETRIC																		
980723	12 Sb Antimony	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	48 Total Whole Rock Total	15	0.01 PCT																				
980723	13 Fe Tot Total Iron	15	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	49 Cr2O3 Chromium Oxide	2	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE																		
980723	14 Mn Manganese	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980723	50 Ba Barium	3	10 PPM	Pressed Pellet	XRAY FLUORESCENCE																		
980723	15 Te Tellurium	15	25 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	<table border="1"> <thead> <tr> <th>SAMPLE TYPES</th> <th>NUMBER</th> <th>SIZE FRACTIONS</th> <th>NUMBER</th> <th>SAMPLE PREPARATIONS</th> <th>NUMBER</th> </tr> </thead> <tbody> <tr> <td>R ROCK</td> <td>15</td> <td>2 -150</td> <td>15</td> <td>CRUSH ONLY</td> <td>15</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>PULVERIZE 500 G</td> <td>15</td> </tr> </tbody> </table>						SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	R ROCK	15	2 -150	15	CRUSH ONLY	15					PULVERIZE 500 G	15
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R ROCK	15	2 -150	15	CRUSH ONLY	15																								
				PULVERIZE 500 G	15																								
980723	16 Ba Barium	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	17 Cr Chrome	15	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	18 V Vanadium	15	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	19 Sn Tin	15	20 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	20 W Tungsten	15	20 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	21 Li Lithium	15	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	22 Ga Gallium	15	10 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	23 La Lanthanum	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	24 Sc Scandium	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	25 Ta Tantalum	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	<p>REPORT COPIES TO: MR. STEVE TRAYNOR</p> <p>INVOICE TO: MR. STEVE TRAYNOR</p> <p>*****</p> <p>This report must not be reproduced except in full. The data presented in this report is specific to those samples identified under "Sample Number" and is applicable only to the samples as received expressed on a dry basis unless otherwise indicated</p> <p>*****</p>																							
980723	26 Ti Titanium	15	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	27 Al Aluminum	15	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	28 Mg Magnesium	15	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	29 Ca Calcium	15	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	30 Ca Calcium	1	0.01 PCT	HF-HNO3-HClO4-HCL	ATOMIC ABSORPTION																								
980723	31 Na Sodium	15	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	32 K Potassium	15	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	33 Nb Niobium	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	34 Sr Strontium	15	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	35 Y Yttrium	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								
980723	36 Zr Zirconium	15	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																								



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION
REPORT: V98-01142.0 (COMPLETE)

DATE RECEIVED: 10-JUL-98 DATE PRINTED: 29-JUL-98 PAGE 1A(1/ 6)

PROJECT: RED RIDGE

SAMPLE NUMBER	ELEMENT UNITS	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe Tot	Mn	Te	Ba	Cr	V	Sn	W	Li	Ga	La	Sc	Ta	Ti	Al	Mg	Ca	Ca	Na	K	Nb	Sr	Y	Zr	SiO2	TiO				
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PCT	PC		
98R061	<5	<5	75	10	94	14	52	12	3	<5	7	<5	3.41	376	<25	508	283	135	<20	<20	47	13	18	10	<5	0.24	5.73	1.48	0.72	0.53	1.89	14	51	10	28								
98R062	<5	1.1	64	197	346	4	56	18	14	<5	6	<5	4.49	379	<25	1100	153	122	<20	<20	57	16	37	15	<5	0.41	8.17	2.47	2.49	1.27	2.44	17	144	16	46								
98R063	<5	<5	32	8	27	14	16	8	<1	<5	6	<5	2.54	102	<25	610	317	165	<20	<20	28	10	23	11	<5	0.22	5.81	1.21	0.36	2.67	1.50	16	108	8	70	70.11	0.6						
98R064	<5	<5	59	11	54	3	46	15	<1	<5	<5	<5	2.70	149	<25	485	310	132	<20	<20	20	<10	18	9	<5	0.21	4.45	1.06	0.84	1.96	1.00	13	173	11	54								
98R065	9	<5	36	27	76	19	25	13	<1	<5	56	<5	3.04	356	<25	1612	286	242	<20	<20	35	<10	12	20	<5	0.28	6.59	1.54	2.77	2.11	1.23	19	319	28	61								
98R066	<5	<5	3	<2	76	2	9	<1	<1	<5	5	<5	1.64	1451	<25	73	31	84	<20	<20	55	<10	15	<5	<5	0.07	2.23	6.22	>10.00	22.12	0.04	0.15	7	89	16	23							
98R067	<5	<5	6	16	16	2	1	<1	<1	<5	11	<5	0.34	210	<25	414	114	13	<20	<20	22	<10	21	<5	<5	0.08	5.45	0.10	0.94	1.02	2.60	15	64	6	34								
98R068	<5	<5	23	6	57	3	12	8	<1	<5	<5	<5	3.27	380	<25	711	295	96	<20	<20	25	14	16	13	<5	0.35	7.10	1.25	0.09	0.77	2.42	14	32	6	14								
98R069	<5	<5	20	5	8	20	6	3	<1	<5	<5	<5	0.91	144	<25	142	462	16	<20	<20	18	<10	5	<5	<5	0.08	2.19	0.08	0.02	0.48	0.59	<5	12	<5	6								
98R070	7	<5	23	6	34	3	15	7	<1	<5	<5	<5	2.30	364	<25	364	317	55	<20	<20	24	<10	12	8	<5	0.28	4.94	0.64	0.21	1.42	1.43	11	37	5	8								
98R103	9	0.6	55	78	48	11	9	6	<1	<5	15	<5	2.62	523	<25	746	270	105	<20	<20	31	11	21	10	<5	0.27	6.05	1.58	1.10	0.80	2.47	15	116	12	33	69.19	0.5						
98R104	15	<5	32	14	203	20	49	7	2	<5	9	<5	2.37	676	<25	1167	288	410	<20	<20	24	<10	28	8	<5	0.23	5.85	2.49	4.27	1.35	1.55	39	296	28	86								
98R105	7	<5	49	11	86	13	56	12	<1	<5	15	<5	2.29	249	<25	1898	215	485	<20	<20	26	12	33	14	<5	0.25	7.05	1.08	2.41	1.77	1.99	42	328	22	109								
98R106	43	0.6	48	10	44	10	57	11	<1	<5	25	<5	2.97	402	<25	1439	283	368	<20	<20	35	11	30	14	<5	0.32	7.57	1.47	2.73	1.79	2.19	35	252	31	108								
98R203	6	1.0	44	147	53	17	27	9	<1	<5	<5	<5	1.73	268	<25	244	423	55	<20	<20	7	<10	14	<5	<5	0.16	1.97	0.87	2.13	0.30	0.75	9	57	9	20								



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION
REPORT: V98-01142.0 (COMPLETE)

DATE RECEIVED: 10-JUL-98 DATE PRINTED: 29-JUL-98 PAGE 1B(2/ 6)

PROJECT: RED RIDGE

SAMPLE NUMBER	ELEMENT Al2O3		Fe2O3*	MnO	MgO	CaO	Na2O	K2O	P2O5	LOI	Total	Cr2O3	Ba
	UNITS	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM
98R061													
98R062													
98R063		12.08	4.38	0.02	2.07	0.58	3.97	1.95	0.22	3.52	99.61	0.11	
98R064													
98R065													
98R066													
98R067													
98R068													780
98R069													149
98R070													405
98R103		12.43	4.20	0.07	2.74	1.60	1.18	5.53	0.10	2.64	100.28	0.07	
98R104													
98R105													
98R106													
98R203													



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION

PROJECT: RED RIDGE

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DATE RECEIVED: 10-JUL-98

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PAGE 2A(3/ 6)

STANDARD NAME	ELEMENT UNITS	Al ₂ O ₃	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Tot	Mn	Te	Ba	Cr	V	Sn	W	Li	Ga	La	Sc	Ta	Ti	Al	Mg	Ca	Ca	Na	K	Nb	Sr	Y	Zr	SiO ₂	TiO ₂
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT
ANALYTICAL BLANK		<5	<.5	2	<2	2	<1	<1	<1	<1	<5	<5	<5	<0.01	<5	<25	<5	<2	<2	<20	<20	<2	<10	<5	<5	<5	<.01	0.01	<.01	<0.01	-	0.01	0.01	<5	<1	<5	<5	-	-	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	-	-
Mean Value		3	0.3	2	1	2	0.5	0.5	0.5	0.5	3	3	3	0.005	3	13	3	1	1	10	10	1	5	3	3	3	.005	0.01	.005	0.005	-	0.01	0.01	3	0.5	3	3	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.2	1	2	1	1	1	1	0.5	2	5	5	0.05	1	.01	.005	1	1	.01	.01	.01	.01	.01	.01	.01	.01	<.01	-	<.01	<.0001	<.001	-	<.01	.01	.01	.01	.01	<.001	<.01
Garnet Ref. Material	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5	-	0.6	94	6	83	1	36	24	<1	<5	11	<5	5.38	896	<25	704	86	189	<20	<20	32	10	12	21	<5	0.50	7.30	2.16	2.19	-	1.77	1.24	20	282	13	48	-	-		
Number of Analyses	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	-	-	
Mean Value	-	0.6	94	6	83	1	36	24	0.5	3	11	3	5.38	896	13	704	86	189	10	10	32	10	12	21	3	0.50	7.30	2.16	2.19	-	1.77	1.24	20	282	13	48	-	-		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	-	0.7	102	11	80	2	40	18	0.1	1	8	1	4.95	850	-	800	100	175	4	2	32	4	10	18	1	0.51	8.30	1.90	1.85	-	1.82	1.00	17	265	13	45	-	-		
CANMET SO-2 REF STD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET STREAM-SED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.70	1.38
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.03	0.76	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	0.5	47	66	246	13	53	19	0.8	-	42	5	5.20	1060	-	-	116	101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.70	0.79	
Granite - Cert. Ref. M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION
REPORT: V98-01142.0 (COMPLETE)

PROJECT: RED RIDGE
DATE RECEIVED: 10-JUL-98 DATE PRINTED: 29-JUL-98 PAGE 28(4/ 6)

STANDARD NAME	ELEMENT UNITS	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		<.001	<.0001	<.01	<.01	<.01	<.01	<.01	<.01	<.001	<.0001	<.001	.005
Gannet Ref.Material		-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 5		-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	1082
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	-	-	-	1082
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		14.75	7.69	0.09	0.87	2.64	2.48	2.85	0.67	14.26	-	0.001	1000
CANMET STREAM-SED		15.69	7.35	0.13	3.05	4.15	1.71	2.12	0.32	10.33	89.33	0.02	-
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	-
Mean Value		15.69	7.35	0.13	3.05	4.15	1.71	2.12	0.32	10.33	89.33	0.02	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		15.75	7.25	0.14	3.11	4.00	1.72	2.12	0.32	10.30	-	0.01	-
Granite - Cert.Ref.M		-	-	-	-	-	-	-	-	-	-	-	1432
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	-	-	-	1432
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	1400



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION

PROJECT: RED RIDGE

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DATE RECEIVED: 10-JUL-98

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PAGE 3A(5/ 6)

SAMPLE NUMBER	ELEMENT UNITS	Al ₂ O ₃	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Tot	Mn	Te	Ba	Cr	V	Sn	W	Li	Ga	La	Sc	Ta	Ti	Al	Mg	Ca	Ca	Na	K	Nb	Sr	Y	Zr	SiO ₂	TiO ₂		
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT			
98R063		<5	<.5	32	8	27	14	16	8	<1	<5	6	<5	2.54	102	<25	610	317	165	<20	<20	28	10	23	11	<5	0.22	5.81	1.21	0.36		2.67	1.50	16	108	8	70	70.11	0.61			
Duplicate		<5	<.5	36	10	27	14	20	9	<1	<5	8	<5	2.88	114	<25	673	371	182	<20	<20	29	10	29	12	<5	0.24	6.54	1.33	0.42		2.95	1.68	17	122	10	76					
98R066		<5	<.5	3	<2	76	2	9	<1	<1	<5	5	<5	1.64	1451	<25	73	31	84	<20	<20	55	<10	15	<5	<5	0.07	2.23	6.22	>10.00	22.12	0.04	0.15	7	89	16	23					
Duplicate																														21.86												
98R070		7	<.5	23	6	34	3	15	7	<1	<5	<5	<5	2.30	364	<25	364	317	55	<20	<20	24	<10	12	8	<5	0.28	4.94	0.64	0.21		1.42	1.43	11	37	5	8					
Duplicate																																										



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION

PROJECT: RED RIDGE

REPORT: V98-01142.0 (COMPLETE)

DATE RECEIVED: 10-JUL-98

DATE PRINTED: 29-JUL-98

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SAMPLE NUMBER	ELEMENT	Al2O3	Fe2O3*	MnO	MgO	CaO	Na2O	K2O	P2O5	LOI	Total	Cr2O3	Ba
	UNITS	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM

98R063		12.08	4.38	0.02	2.07	0.58	3.97	1.95	0.22	3.52	99.61	0.11	
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Duplicate

98R066

Duplicate

98R070

405

Duplicate

412



Intertek Testing Services
Bondar Clegg

Geochemical
Lab
Report

TANANA EXPLORATION
MR. STEVE TRAYNOR
P.O. BOX 4375
STN. MAIN
WHITEHORSE, YT Y1A 3T5

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Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

REPORT: V98-01357.1 (COMPLETE)

REFERENCE:

CLIENT: TANANA EXPLORATION

SUBMITTED BY: S. TRAYNOR

PROJECT: BIG TOP

DATE RECEIVED: 06-AUG-98 DATE PRINTED: 17-AUG-98

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
980813	1 Au30 Gold	2	5 PPB	Fire Assay of 30g	30g Fire Assay - AA	980813	37 SiO2 Silica (SiO2)	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	2 Ag Silver	2	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	38 TiO2 Titanium (TiO2)	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	3 Cu Copper	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	39 Al2O3 Alumina (Al2O3)	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	4 Pb Lead	2	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	40 Fe2O3* Total Iron (Fe2O3)	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	5 Zn Zinc	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	41 MnO Manganese (MnO)	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	6 Mo Molybdenum	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	42 MgO Magnesium (MgO)	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	7 Ni Nickel	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	43 CaO Calcium (CaO)	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	8 Co Cobalt	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	44 Na2O Sodium (Na2O)	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	9 Cd Cadmium	2	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	45 K2O Potassium (K2O)	1	0.05 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	10 Bi Bismuth	2	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	46 P2O5 Phosphorous (P2O5)	1	0.03 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	11 As Arsenic	2	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	47 LOI Loss on Ignition	1	0.05 PCT	Ignition 1000 Deg.	GRAVIMETRIC
980813	12 Sb Antimony	2	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	48 Total Whole Rock Total	2	0.01 PCT		
980813	13 Hg Mercury	2	0.010 PPM	HCL:HNO3 (3:1)	COLD VAPOR AA	980813	49 Cr2O3 Chromium Oxide	1	0.01 PCT	BORATE FUSION	INDUC. COUP. PLA:
980813	14 Fe Iron	2	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	50 Ba Barium	1	10 PPM	Pressed Pellet	XRAY FLUORESCENCE
980813	15 Mn Manganese	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	51 Sr Strontium	1	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
980813	16 Te Tellurium	2	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	52 Y Yttrium	1	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
980813	17 Ba Barium	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	53 Nb Niobium	1	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
980813	18 Cr Chromium	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	54 Zr Zirconium	1	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
980813	19 V Vanadium	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	980813	55 Rb Rubidium	1	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
980813	20 Sn Tin	2	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	21 W Tungsten	2	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	22 La Lanthanum	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	23 Al Aluminum	2	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	24 Mg Magnesium	2	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	25 Ca Calcium	2	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	26 Na Sodium	2	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	27 K Potassium	2	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	28 Sr Strontium	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	29 Y Yttrium	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	30 Ga Gallium	2	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	31 Li Lithium	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	32 Nb Niobium	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	33 Sc Scandium	2	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	34 Ta Tantalum	2	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	35 Ti Titanium	2	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
980813	36 Zr Zirconium	2	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK	2	2 -150	2	CRUSH/SPLIT & PULV.	7

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INVOICE TO: MR. STEVE TRAYNOR

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Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION

PROJECT: BIG TOP

REPORT: V98-01357.1 (COMPLETE)

DATE RECEIVED: 06-AUG-98

DATE PRINTED: 17-AUG-98

PAGE 1A(1/ 8)

SAMPLE NUMBER	ELEMENT	Au30	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Hg	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	SiO2	TiO2	Al2O3
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PCT	PCT	PCT	
98R350		<5	0.9	128	<2	58	2	28	30	0.2	<5	<5	<5	<.010	6.44	380	<10	60	45	44	<20	<20	<1	3.66	0.52	2.43	0.08	0.31	80	4	3	9	<1	6	<10	0.08	<1			
98R355		8	0.4	31	6	265	18	23	3	2.9	<5	<5	<5	0.118	0.60	46	<10	597	172	67	<20	<20	1	0.40	0.05	<.01	0.03	0.20	3	1	<2	1	<1	<5	<10	0.01	7	84.00	0.28	7.7



Intertek Testing Services

Bondar Clegg

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PAGE 18(2/ 8)

SAMPLE NUMBER	ELEMENT	Fe2O3*	MnO	MgO	CaO	Na2O	K2O	P2O5	LOI	Total	Cr2O3	Ba	Sr	Y	Nb	Zr	Rb	
		UNITS	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
98R350																		
98R355		0.93	0.01	0.48	0.12	1.12	1.67	<.03	3.06	99.46	0.04	4885	35	22	5	73	45	



Intertek Testing Services

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Geochemical Lab Report

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PROJECT: BIG TOP

STANDARD NAME	ELEMENT UNITS	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM
CANMET STD SY-3		6.41	0.33	2.70	8.24	4.10	4.22	0.53	98.39	<0.01	-	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	1	1	-	-	-	-	-	-
Mean Value		6.41	0.33	2.70	8.24	4.10	4.22	0.53	98.39	0.005	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		6.42	0.32	2.67	8.26	4.15	4.20	0.54	1.20	-	-	-	-	-	-	-
ANALYTICAL BLANK		<0.01	<.01	<.01	<.01	<.01	<.05	<.03	-	<0.01	-	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	-	1	-	-	-	-	-	-
Mean Value		0.005	.005	.005	.005	.005	0.03	0.02	-	0.005	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		<.0001	<.01	<.01	<.01	<.01	<.01	<.01	<.001	<.001	.005	.01	.01	.01	.01	.01
Loss on Ignition Std		-	-	-	-	-	-	-	4.16	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	4.16	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	4.24	-	-	-	-	-	-	-
Loss On Ignition Std		-	-	-	-	-	-	-	41.00	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	41.00	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	41.08	-	-	-	-	-	-	-
CANMET STREAM-SED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granite - Cert.Ref.M		-	-	-	-	-	-	-	-	-	1411	567	13	23	242	191
Number of Analyses		-	-	-	-	-	-	-	-	-	1	1	1	1	1	1
Mean Value		-	-	-	-	-	-	-	-	-	1411	567	13	23	242	191
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	1400	570	14	21	235	185



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION
REPORT: V98-01357.1 (COMPLETE)

PROJECT: BIG TOP
DATE RECEIVED: 06-AUG-98 DATE PRINTED: 17-AUG-98 PAGE 3A(5/ 8)

STANDARD NAME	ELEMENT UNITS	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Hg	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	SiO2	TiO2	Al2O3				
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PCT	PCT	PC			
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.46	15.2
Garnet Ref. Material	194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		



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Geochemical Lab Report

CLIENT: TANANA EXPLORATION
 REPORT: V98-01357.1 (COMPLETE)

DATE RECEIVED: 06-AUG-98 DATE PRINTED: 17-AUG-98 PAGE 38(6/ 8) PROJECT: BIG TOP

STANDARD NAME	ELEMENT UNITS	Fe2O3* PCT	MnO PCT	MgO PCT	CaO:Na2O PCT	K2O PCT	P2O5 PCT	LOI Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	1016	348	41	19	776	74
Number of Analyses		-	-	-	-	-	-	-	-	1	1	1	1	1	1
Mean Value		-	-	-	-	-	-	-	-	1016	348	41	19	776	74
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	1000	340	40	22	760	78
Gannet Ref.Material		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-



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Geochemical Lab Report

CLIENT: TANANA EXPLORATION
 REPORT: V98-01357.1 (COMPLETE)

DATE RECEIVED: 06-AUG-98 DATE PRINTED: 17-AUG-98 PAGE 4A(7 / 8) PROJECT: BIG TOP

SAMPLE NUMBER	ELEMENT	Au30	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Hg	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	SiO2	TiO2	Al2O3
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PCT	PCT	PC
98R355		8	0.4	31	6	265	18	23	3	2.9	<5	<5	<5	0.118	0.60	46	<10	597	172	67	<20	<20	1	0.40	0.05	<.01	0.03	0.20	3	1	<2	1	<1	<5	<10	0.01	7	84.00	0.28	7.7
Duplicate																																								



Intertek Testing Services
Bondar Clegg

**Geochemical
Lab
Report**

CLIENT: TANANA EXPLORATION

PROJECT: BIG TOP

REPORT: V98-01357.1 (COMPLETE)

DATE RECEIVED: 06-AUG-98

DATE PRINTED: 17-AUG-98

PAGE 48(8/ 8)

SAMPLE NUMBER	ELEMENT	Fe2O3*	MnO	MgO	CaO	Na2O	K2O	P2O5	LOI Total	Cr2O3	Ba	Sr	Y	Nb	Zr	Rb	
	UNITS	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	
98R355		0.93	0.01	0.48	0.12	1.12	1.67	<.03	3.06	99.46	0.04	4885	35	22	5	73	45
Duplicate									3.05								



Intertek Testing Services
Bondar Clegg

Geochemical
Lab
Report

TANANA EXPLORATION
MR. STEVE TRAYNOR
P.O. BOX 4375
STN. MAIN
WHITEHORSE, YT Y1A 3T5

+

+

+

+



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

REPORT: V98-01357.0 (COMPLETE)

REFERENCE:

CLIENT: TANANA EXPLORATION

SUBMITTED BY: S. TRAYNOR

PROJECT: BIG TOP

DATE RECEIVED: 06-AUG-98

DATE PRINTED: 16-AUG-98

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD												
980812	1 Au30 Gold	5	5 PPB	Fire Assay of 30g	30g Fire Assay - AA	980812	37 TiO2 Titanium (TiO2)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	2 Ag Silver	5	0.5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	38 Al2O3 Alumina (Al2O3)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	3 Cu Copper	5	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	39 Fe2O3* Total Iron (Fe2O3)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	4 Pb Lead	5	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	40 MnO Manganese (MnO)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	5 Zn Zinc	5	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	41 MgO Magnesium (MgO)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	6 Mo Molybdenum	5	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	42 CaO Calcium (CaO)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	7 Ni Nickel	5	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	43 Na2O Sodium (Na2O)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	8 Co Cobalt	5	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	44 K2O Potassium (K2O)	5	0.05 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	9 Cd Cadmium	5	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	45 P2O5 Phosphorous (P2O5)	5	0.03 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	10 Bi Bismuth	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	46 LOI Loss on Ignition	5	0.05 PCT	Ignition 1000 Deg.	GRAVIMETRIC												
980812	11 As Arsenic	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	47 Total Whole Rock Total	5	0.01 PCT														
980812	12 Sb Antimony	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	48 Cr2O3 Chromium Oxide	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS												
980812	13 Fe Tot Total Iron	5	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	49 Ba Barium	5	10 PPM	Pressed Pellet	XRAY FLUORESCENCE												
980812	14 Mn Manganese	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	50 Sr Strontium	5	1 PPM	Pressed Pellet	XRAY FLUORESCENCE												
980812	15 Te Tellurium	5	25 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	51 Y Yttrium	5	1 PPM	Pressed Pellet	XRAY FLUORESCENCE												
980812	16 Ba Barium	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	52 Nb Niobium	5	2 PPM	Pressed Pellet	XRAY FLUORESCENCE												
980812	17 Cr Chrome	5	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	53 Zr Zirconium	5	1 PPM	Pressed Pellet	XRAY FLUORESCENCE												
980812	18 V Vanadium	5	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	980812	54 Rb Rubidium	5	2 PPM	Pressed Pellet	XRAY FLUORESCENCE												
980812	19 Sn Tin	5	20 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA	<table border="1"> <thead> <tr> <th>SAMPLE TYPES</th> <th>NUMBER</th> <th>SIZE FRACTIONS</th> <th>NUMBER</th> <th>SAMPLE PREPARATIONS</th> <th>NUMBER</th> </tr> </thead> <tbody> <tr> <td>R ROCK</td> <td>5</td> <td>2 -150</td> <td>5</td> <td>CRUSH/SPLIT & PULV.</td> <td>7</td> </tr> </tbody> </table>						SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	R ROCK	5	2 -150	5	CRUSH/SPLIT & PULV.	7
SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER																		
R ROCK	5	2 -150	5	CRUSH/SPLIT & PULV.	7																		
980812	20 W Tungsten	5	20 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	21 Li Lithium	5	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	22 Ga Gallium	5	10 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	23 La Lanthanum	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	24 Sc Scandium	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	25 Ta Tantalum	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	26 Ti Titanium	5	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	27 Al Aluminum	5	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	28 Mg Magnesium	5	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	29 Ca Calcium	5	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	30 Na Sodium	5	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	31 K Potassium	5	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	32 Nb Niobium	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	33 Sr Strontium	5	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	34 Y Yttrium	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	35 Zr Zirconium	5	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA																		
980812	36 SiO2 Silica (SiO2)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLASMA																		

REPORT COPIES TO: MR. STEVE TRAYNOR

INVOICE TO: MR. STEVE TRAYNOR

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Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION

PROJECT: BIG TOP

REPORT: V98-01357.0 (COMPLETE)

DATE RECEIVED: 06-AUG-98

DATE PRINTED: 16-AUG-98

PAGE 1A(1/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Au	30	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Tot	Mn	Te	Ba	Cr	V	Sn	W	Li	Ga	La	Sc	Ta	Ti	Al	Mg	Ca	Na	K	Nb	Sr	Y	Zr	SiO2	TiO2	Al2O3
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PCT
98R351		<5	<.5	20	3	38	6	12	1	<1	<5	<5	<5	1.70	376	<25	652	229	88	<20	<20	14	<10	9	5	<5	0.20	4.06	0.28	0.11	0.32	1.16	<5	42	<5	20	84.11	0.36	7.87		
98R352		32	<.5	36	18	135	22	25	<1	4	<5	16	<5	0.81	90	<25	>2000	354	989	<20	<20	5	<10	8	6	<5	0.12	2.23	0.28	2.11	0.34	0.69	10	138	27	29	80.64	0.20	4.20		
98R353		<5	0.7	21	<2	57	3	3	<1	<1	<5	<5	<5	3.03	358	<25	>2000	65	151	<20	<20	8	<10	6	18	<5	0.28	7.53	0.81	1.34	3.39	0.71	<5	142	6	50	68.90	0.53	14.32		
98R354		<5	<.5	49	<2	62	15	13	2	2	<5	12	<5	1.68	136	<25	>2000	203	639	<20	<20	10	11	19	11	<5	0.23	6.26	0.62	0.69	1.21	1.65	7	147	13	104	73.13	0.45	12.20		
98R356		34	<.5	75	4	221	8	31	<1	1	<5	<5	8	4.36	234	<25	1292	398	461	<20	<20	8	<10	6	<5	<5	0.08	1.37	0.40	0.02	0.27	0.44	<5	45	8	32	86.90	0.16	2.62		



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SAMPLE NUMBER	ELEMENT UNITS	Fe2O3*	MnO	MgO	CaO	Na2O	K2O	P2O5	LOI	Total	Cr2O3	Ba	Sr	Y	Nb	Zr	Rb
		PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
98R351		2.48	0.05	0.55	0.18	0.37	1.95	0.06	2.13	100.15	0.04	792	57	14	6	94	68
98R352		1.14	0.01	0.55	2.96	0.33	0.89	1.96	6.68	99.62	0.06	2824	168	34	7	58	24
98R353		4.32	0.05	1.48	1.91	4.85	0.90	0.09	2.34	99.70	0.01	4160	156	21	3	83	25
98R354		2.45	0.02	1.17	1.02	1.72	2.54	0.05	5.62	100.41	0.04	3426	173	18	6	151	75
98R356		6.26	0.03	0.77	0.06	0.32	0.58	0.05	2.74	100.55	0.06	2730	53	15	5	47	28



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STANDARD NAME	ELEMENT UNITS	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM
CANMET STD SY-3		6.46	0.33	2.66	8.26	4.13	4.19	0.54	-	98.83	<0.01	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	-	1	1	-	-	-	-	-
Mean Value		6.46	0.33	2.66	8.26	4.13	4.19	0.54	-	98.83	0.005	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		6.42	0.32	2.67	8.26	4.15	4.20	0.54	1.20	-	-	-	-	-	-	-
ANALYTICAL BLANK		<0.01	<.01	<.01	<.01	<.01	<.05	<.03	-	<0.01	-	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	-	1	-	-	-	-	-	-
Mean Value		0.005	.005	.005	.005	.005	0.03	0.02	-	0.005	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		<.0001	<.01	<.01	<.01	<.01	<.01	<.01	<.001	<.0001	<.001	.005	.01	.01	.01	.01
Loss on Ignition Std		-	-	-	-	-	-	-	4.22	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	4.22	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	4.24	-	-	-	-	-	-	-
Loss On Ignition Std		-	-	-	-	-	-	-	41.08	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	41.08	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	41.08	-	-	-	-	-	-	-
CANMET STREAM-SED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	1006	348	40	19	760	76
Number of Analyses		-	-	-	-	-	-	-	-	-	1	1	1	1	1	1
Mean Value		-	-	-	-	-	-	-	-	-	1006	348	40	19	760	76
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	1000	340	40	22	760	78



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STANDARD	ELEMENT	Au30	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Tot	Mn	Te	Ba	Cr	V	Sn	W	Li	Ga	La	Sc	Ta	Ti	Al	Mg	Ca	Na	K	Nb	Sr	Y	Zr	SiO2	TiO2	Al2O3			
NAME	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT				
Granite - Cert.Ref.M		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Garnet Ref.Material		194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



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STANDARD	ELEMENT	Fe2O3*	MnO	MgO	CaO	Na2O	K2O	P2O5	LOI	Total	Cr2O3	Ba	Sr	Y	Nb	Zr	Rb
NAME	UNITS	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
Granite - Cert.Ref.M		-	-	-	-	-	-	-	-	-	-	1400	558	14	22	235	190
Number of Analyses		-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1
Mean Value		-	-	-	-	-	-	-	-	-	-	1400	558	14	22	235	190
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	1400	570	14	21	235	185
Garnet Ref.Material		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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SAMPLE NUMBER	ELEMENT	AU30 UNITS	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Tot	Mn	Te	Ba	Cr	V	Sn	W	Li	Ga	La	Sc	Ta	Ti	Al	Mg	Ca	Na	K	Nb	Sr	Y	Zr	SiO2	TiO2	Al2O3			
			PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PCT	PCT	PCT		
98R351		<5	<.5	20	3	38	6	12	1	<1	<5	<5	<5	1.70	376	<25	652	229	88	<20	<20	14	<10	9	5	<5	0.20	4.06	0.28	0.11	0.32	1.16	<5	42	<5	20	84.11	0.36	7.87				
Duplicate																																											



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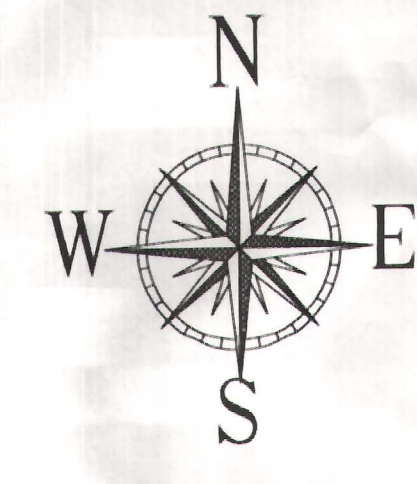
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SAMPLE NUMBER	ELEMENT UNITS	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM
98R351		2.48	0.05	0.55	0.18	0.37	1.95	0.06	2.13	100.15	0.04	792	57	14	6	94	68
Duplicate									2.17								

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105C-14
QUARTZ
 LATITUDE 66°45' TO 67°00'
 LONGITUDE 132°00' TO 132°30'
 CLAYTON WILSON - YMP 98 - 033
SAMPLE LOCATION MAP
 UPPER SIDNEY CREEK AREA
 FIGURE 6
 SCALE 1:31,680

VIKTOR ENERGY MINING
 10010 100 STREET
 WATSON LAKE, SASKATCHEWAN
 S4N 1Y2 0A5



NOTE:
 THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.
 TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES.
 CONTOUR INTERVAL 100 METRES.
 SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES.

105P-4	105P-3	105P-2
105C-12	105C-14	105C-15
105C-12	105C-11	105C-10

Canada

WHITEHORSE
 WATSON LAKE 01 JULY 98



105P-4	105P-3	105P-2
105C-12	105C-14	105C-15
105C-12	105C-11	105C-10

SHEET 105C-13

LATITUDE 60°45' To 61°00'
LONGITUDE 133°30' To 134°00'

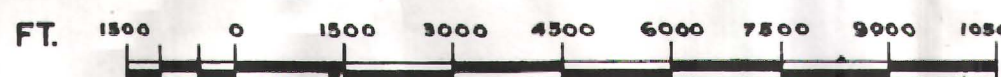
CLAYTON WILSON - YMP 98 - 033

SAMPLE LOCATION MAP

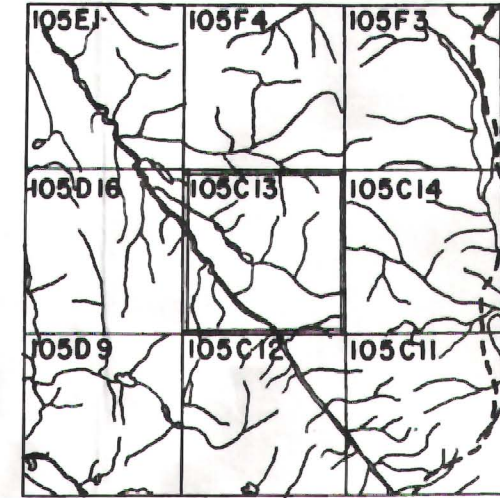
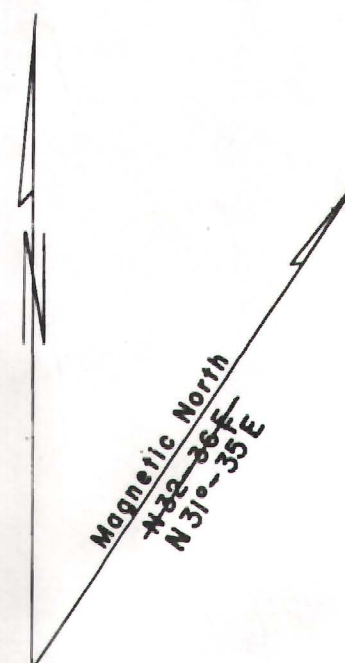
RED RIDGE TARGET AREA

FIGURE 4

SCALE: 1/2 MILE To 1 INCH



ISSUED UNDER THE AUTHORITY OF THE MINISTER
NORTHERN AFFAIRS AND NATIONAL RESOURCES



NOTICE

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11 Aug 69
12 MAY 70
13 FEB 71
14 FEB 72
15 AUG 72
16 APR 73
17 JAN 74
18 NOV 74

15 AUG 50
16 MAY 51
17 NOV 51
14 MAY 56

17 JUL 50
18 FEB 51
19 SEP 51
20 APR 52
21 NOV 52
22 JUN 53
23 JAN 54
24 AUG 54
25 FEB 55
26 SEP 55
27 JUN 56
28 JAN 57
29 AUG 57
30 FEB 58
31 OCT 58
32 MAY 59
33 DEC 59
34 SEPT 60
35 FEB 61
36 OCT 61
37 MAY 62
38 NOV 62
39 JUN 63
40 JAN 64
41 AUG 64
42 FEB 65
43 SEP 65
44 MAY 66
46 NOV 66
47 JUN 67
48 JAN 68
49 AUG 68
50 FEB 69

WHITEHORSE

Note: Entry on certain lands is withdrawn from staking in cross-hatched areas to facilitate the settlement of Native Land Claims without prejudice to Existing Surface and Subsurface Rights.

