

**REPORT OF 1997 FIELD ACTIVITIES
FUNDED UNDER YMIP GRANT #97-024**

PREPARED FOR
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INTRODUCTION

This report prepared for Wade Carrell, summarizes prospecting funded under Grant #97-024 of the Yukon Mineral Incentives Program (YMIP). A detailed summary of 1997 field activities and copies of the prospector's field notes are included as Appendix A.

Three projects are discussed in detail, they include Pelly Crossing, Williams Creek (Merrice Lake) and the upper Sidney Creek Valley areas.

The writer assisted with field work in the upper Sidney Creek Valley area during July 1997 and has reviewed research materials, field notes, maps and rock samples supplied by Mr Carrell, during the preparation of this report.

AREA 1 – PELLY CROSSING

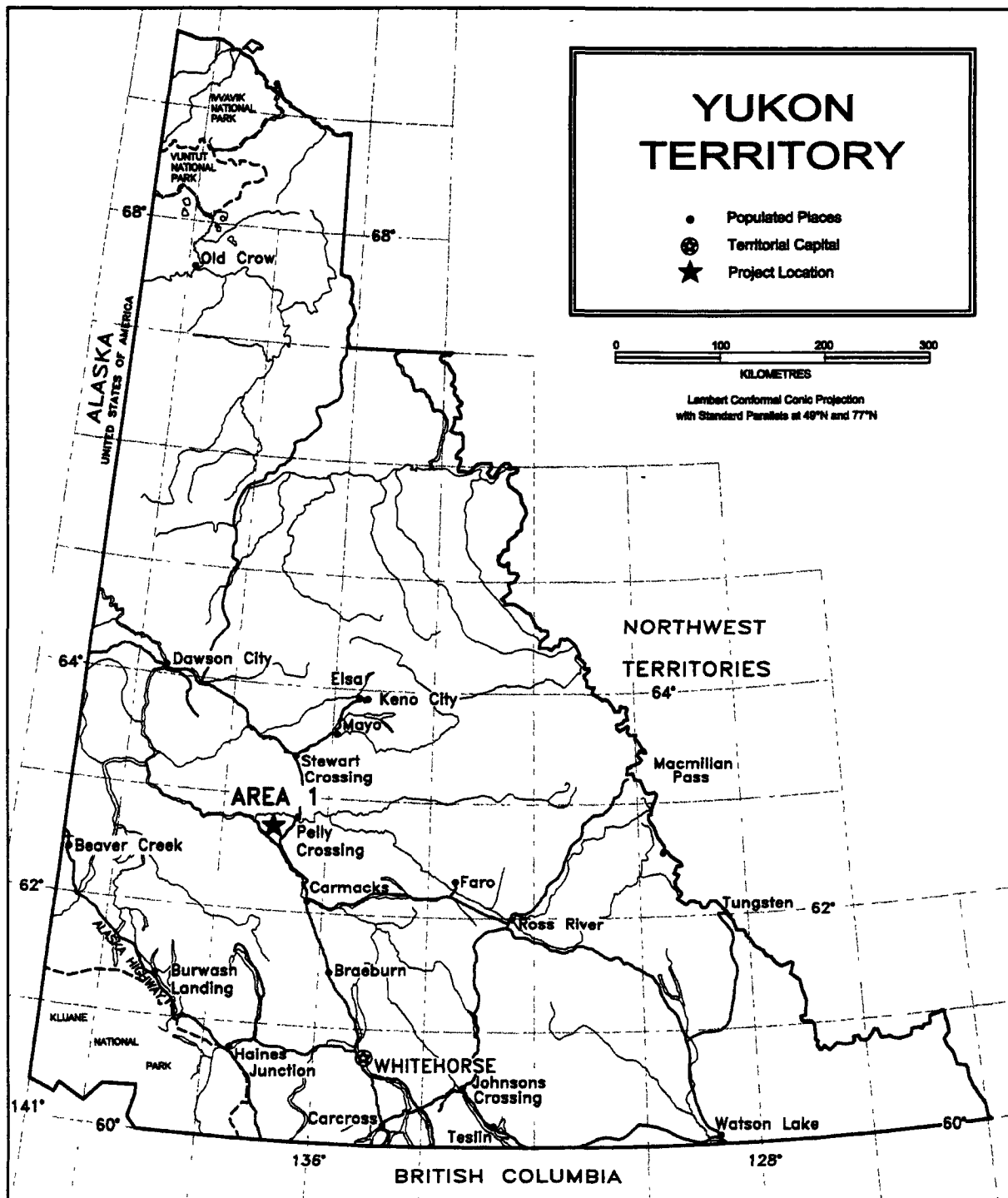
PROJECT SUMMARY

Ground orientation, access improvement and aerial reconnaissance of the area were carried out during the 1997 field season. Early season reconnaissance work, on the north side of the Pelly River identified well pyritized quartz rich float and volcano-sedimentary lithologies associated with massive sulfides occurrences elsewhere in Yukon-Tanana terrane rocks. Later aerial reconnaissance detected a number of gossanous areas in creek valleys draining into the Pelly River from the south. An extensive area of downed trees blocking an old cat trail from the south, was cleared late in the season and will provide improved access to the area for future work.

AREA LOCATION AND ACCESS

This project covers an area located south of the Pelly River, between Pelly Farms and Pelly Crossing centred on Bradens Canyon. The area is in the Whitehorse Mining District and is shown on Claim Sheet Maps 115 I 14 and 15, see Figure 1.

Access to the area via a loose surface road running west from Pelly Crossing on the north side of the Pelly River was first investigated, later aerial and ground reconnaissance showed a number of cat trails originating from the Klondike Highway south of Pelly Crossing, that would provide access to the project area from the south side of the Pelly River. Clearing of sections of these trails blocked by wind-downed trees was completed by hand before the end of season and now provides good access with the use of trucks.



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**PELLEY CROSSING
Area 1 Location Map**

Steve Traynor, Geologist

SCALE: 1 : 6,000,000	FILE: WC97_1	DATE 97.12.19
NTS: 105 C/14	DRAWN:	FIGURE 1

and 4 wheel ATV vehicles.

PREVIOUS WORK AND EXPLORATION

Known occurrences in the area include the Bradens Canyon copper showing found in the early 1900's and the Pelly prospect which was drilled for Cu in the early 1970's. The 1972 drilling by Canadian Occidental Petroleum Ltd. is reported to have intersected volcano-sedimentary lithologies comparable to those now known to host massive sulfide mineralization elsewhere in the southern Yukon.

Other reports on the area include GSC regional stream sediment geochemical data and regional aeromagnetic data. In addition a recent Yukon Geology Program pilot project testing the application of biogeochemical methods to explore for VMS deposits was conducted in the Bradens Canyon area

REGIONAL AND GENERAL GEOLOGY

Metasedimentary and metavolcanic rocks, in part consisting of chloritic schist, graphitic argillite and pyritic tuffaceous rocks occur in a wide WNW trending belt across much of the area. The area has undergone recent glaciation and till deposits associated with this event blanket the area. The metamorphic sequence of Paleozoic and Mesozoic rocks, is part of the Yukon-Tanana terrane, which is currently being explored for volcanogenic massive sulfides elsewhere in the territory.

DESCRIPTION AND SUMMARY OF WORK

A total of 7 days was spent exploring this area in 1997. An early season trip met with difficult conditions during breakup, but did result in the identification of a number of prospective lithologies. Well sulfidized, somewhat angular felsic float showing brecciated textures was noted in a number of locations along the Pelly River and fixed wing aerial reconnaissance of the area was useful in identifying a number of gossans and areas of limonitic soil staining indicative of possible mineralization.

A number of old cat trails, also identified during the course of the reconnaissance flight, apparently providing access to the area from the Klondike Highway south of Pelly Crossing were investigated during a trip in October. The trail was followed for a number of kilometers before an extensive area of trees downed by wind was encountered. The remainder of this trip was spent working to clear various sections of trail to provide improved access to the area next season. Heavy snow and colder temperatures halted this work and effectively ended the field season on Oct. 13, 1997

ANALYSIS AND RESULTS

Prospecting was successful in identifying volcano-sedimentary lithologies comparable to those hosting massive sulfide mineralization elsewhere in the Yukon-Tanana terrane.

Limited lithological sampling was completed during the course of reconnaissance work in this project area, the better mineralized samples were all float and therefore were not submitted for analysis.

CONCLUSIONS AND RECOMMENDATIONS

This area is considered to have good potential for hosting massive sulfide mineralization and further work should be carried out during the upcoming season. Improved access from the south will facilitate the completion of an orientation survey, in the area along strike to the east of the Pelly Prospect, in anticipation of a more detailed soil geochemical program if results warrant it.

Followup of the regional stream sediment geochemistry indicative of VMS deposits, previously identified through the analysis of GSC data should be completed. Detailed prospecting of the drainage in the areas of anomalous coincidence, between the geochemical and aeromagnetic data and the areas identified during this season's aerial reconnaissance.

AREA 2 – WILLIAMS CREEK

PROJECT SUMMARY

The area lies to the southwest of the Williams Creek (Carmacks Copper) property, which is one of several metamorphosed copper deposits which occur along the boundary between the Yukon-Tanana and Northern Stikine terranes.

Research and reconnaissance in the area identified a number of structures potentially important to any model used to direct exploration efforts. Detailed prospecting of an area showing magnetic responses similar to those in areas of known mineralization was unsuccessful, but increased understanding of the conditions in the area will assist in planning any future exploration efforts in the area.

PROJECT LOCATION AND ACCESS

The project area is located north of Carmacks on the southwest side of the Yukon River, roughly midway between Yukon Crossing and McCabe Creek. It is within the Whitehorse Mining District and is shown on parts of Claim Map Sheets 115 I 7 and 115 I 8, see Figure 2.

Access to the area is via the Freegold Road from Carmacks and numerous old roads and cat trails which abound throughout the area, many of which are still in fairly good shape.

PROJECT AREA DESCRIPTION

The project area contains predominately open pine forest with little or no undergrowth, providing for easy traversing. Glacial accumulation and in places considerable amounts of recent volcanic ash cover much of the area and restrict outcrop exposure.

The area lies to the southwest of the Williams Creek (Carmacks Copper) property, which is one of several metamorphosed copper deposits which occur along the boundary between the Yukon-Tanana and Northern Stikine terranes at the extreme southeastern end of the Dawson Range.

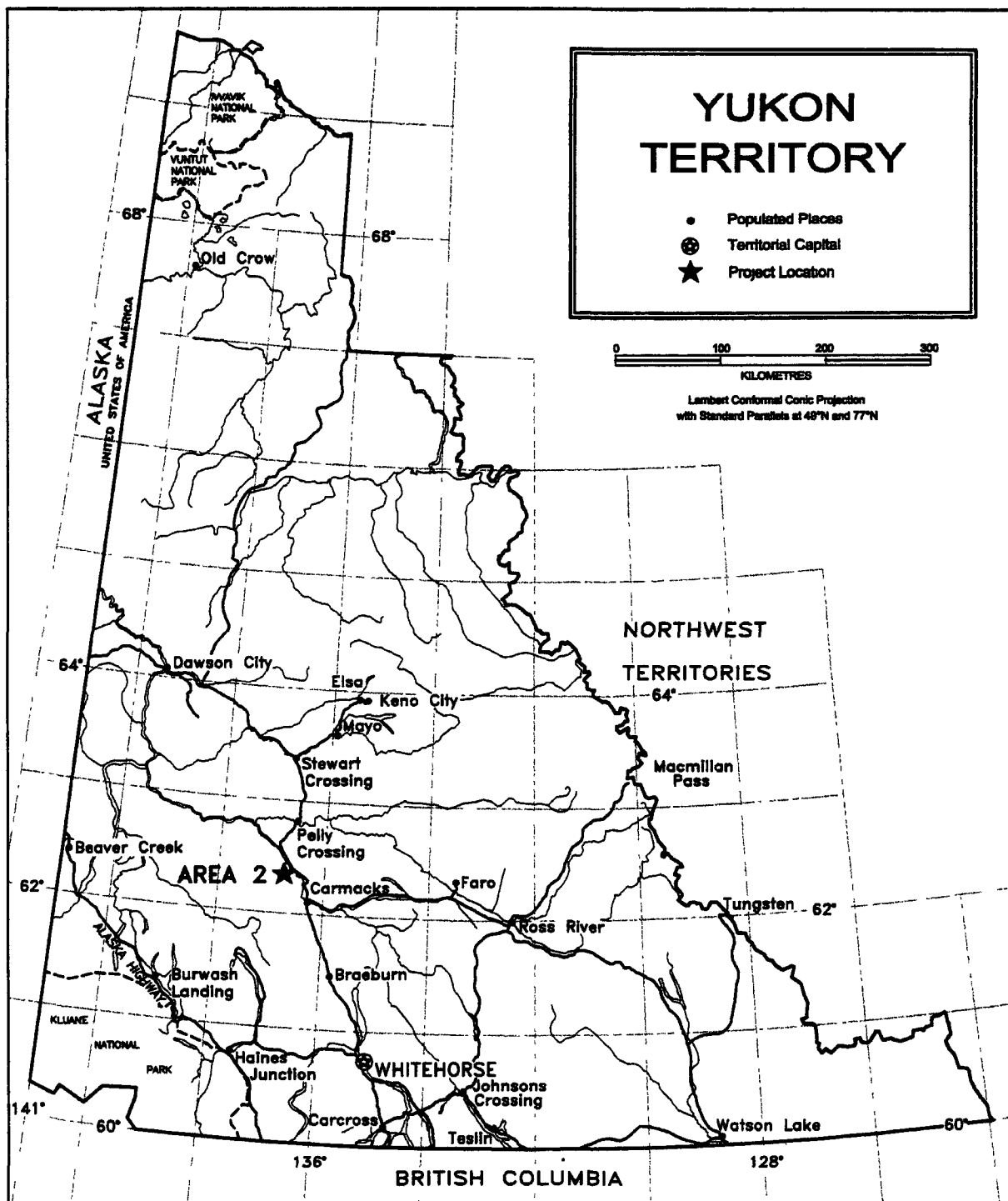
PREVIOUS WORK AND EXPLORATION

Mineralization consisting mostly of disseminated chalcopyrite and bornite has been reported in the immediate area since 1902 and regionally since 1898. Activity in the area increased dramatically in the early 1970's with the discovery of Williams Creek and numerous other properties were staked and explored during this period.

With the exception of the Williams Creek prospect, most other properties soon lapsed. Continuing work on the Williams Creek property in the form of machine trenching and drilling identified a number of mineralized zones. The property was inactive until 1982, when Archer Cathro and Associates (1981) purchased it and continued to explore with trenching, drilling and bulk sampling. Optioned to Western Copper Holdings in 1989 the property contains an open pit mineable reserve of 14 million tonnes grading 1.01% copper and 0.51 grams per tonne gold.

REGIONAL AND GENERAL GEOLOGY

The area is underlain by predominately granodioritic rocks of the Carmacks Batholith near the boundary between rocks of the Yukon-Tanana terrane to the ENE and those of the Northern Stikine terrane



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**WILLIAMS CREEK
Area 2 Location Map**

Steve Traynor, Geologist

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NTS 105 C/14	DRAWN:	FIGURE 2

to the WSW. The granodiorites are seen to contain variable amounts of biotite and hornblende and range in color from light grey to pink. A number of regional scale NW trending linear structures were noted during aerial reconnaissance of the area and are reflected locally in a well developed rectilinear drainage pattern.

A porphyry type model has been proposed for the Carmacks Copper deposit with copper and gold mineralization associated with intrusions into a sheared host rock. This leads one to conclude that the structural lineations visible on a regional scale may well represent extensions of these hosting features

Porphyritic quartz-feldspar dikes and minor quartz veining were noted in a number of locations and were invariably found to occur parallel to the direction of these regional structures. Minor sulfide mineralization, consisting of fine grained disseminated pyrite grains was noted at one location just north of Merrice Lake, no copper minerals either primary or secondary were reported.

DESCRIPTION AND SUMMARY OF WORK

An early season orientation trip was made to determine road access in the area. Snow and trail conditions off the Freegold Road, which had recently been plowed restricted any more detailed work. A reconnaissance flight over the area late in August 1997, was useful in providing a regional perspective and resulted in the identification of the regional lineaments discussed above. Overflying of the Carmacks Copper property also allowed some investigation of the trenching on that deposit and revealed the existence of limonitically stained zones presumably related to mineralization in the area.

Detailed ground investigation and prospecting of old Minfile showings and lapsed claim blocks in an area ESE of the above noted deposit was carried out in early October 1997. Research had indicated that areas of low magnetic response are found coincident with zones of known mineralization elsewhere in the area, one such feature identified on GSC regional aeromagnetic maps cuts across the area of investigation.

ANALYSIS AND RESULTS

Prospecting was unsuccessful in detecting any significant mineralization, efforts in the area were hampered by extremely limited outcropping throughout the area. Concerns over the usefulness of soil geochemical sampling, due to overburden and the filtering effect of the volcanic ash layer in the area, postponed this work until a detailed orientation survey can be carried out, to determine what if any effects this cover will have on the results. No areas of limonitically stained soil, similar to those noted above on the

Carmacks Copper property, were noted. But indicators such as these may also be masked by the extensive covering layers.

Alteration suites typical of porphyritic intrusives were not noted and it has been reported that even on the Carmacks Copper property alteration is not widespread and is narrowly confined to mineralized zones

CONCLUSIONS AND RECOMMENDATIONS

While no mineralization was reported as a result of this work, the research which identified this area as prospective is still sound and continuing investigation by other methods may well prove successful in the long run. A soil geochemical orientation survey should be carried out in the area and would likely be assisted by the use of soil augers, given the nature of the overburden in the area. If soil geochemical sampling can be proven useful as a result of this survey, then more detailed sampling in combination with an electromagnetic ground geophysical survey in the area identified in Fig. ?? is recommended.

AREA 3 – AISHIHIK

PROJECT SUMMARY

Identified in 1996 during YMIP funded regional reconnaissance (see YMIP 96-032), prospecting and sampling identified elevated Cu, Zn and precious metal values in a number of locations across a wide band of metavolcanic and metasedimentary rocks. Of particular interest, an area south of Houghton Lake is considered to have high potential for the discovery of mineralization.

No exploration work was carried out in this area during the 1997 season, as a result of time constraints imposed due to work on projects in other areas.

Continuing research and improved understanding of the geological framework of the area indicates that followup of the encouraging results obtained in 1996 should be considered a priority in 1998.

AREA 4 – MOUNT COCKFIELD

PROJECT SUMMARY

No exploration work was carried out in this area during the 1997 season, as a result of time constraints imposed due to work on projects in other areas.

Ongoing study in this area by Craig Hart, continues to show excellent potential in this belt of intrusives known as the Dawson Range. A considerable increase in the data base for parts of this area will necessitate ongoing re-evaluation of potential targets across the entire belt.

AREA 5 – UPPER SIDNEY CREEK

PROJECT SUMMARY

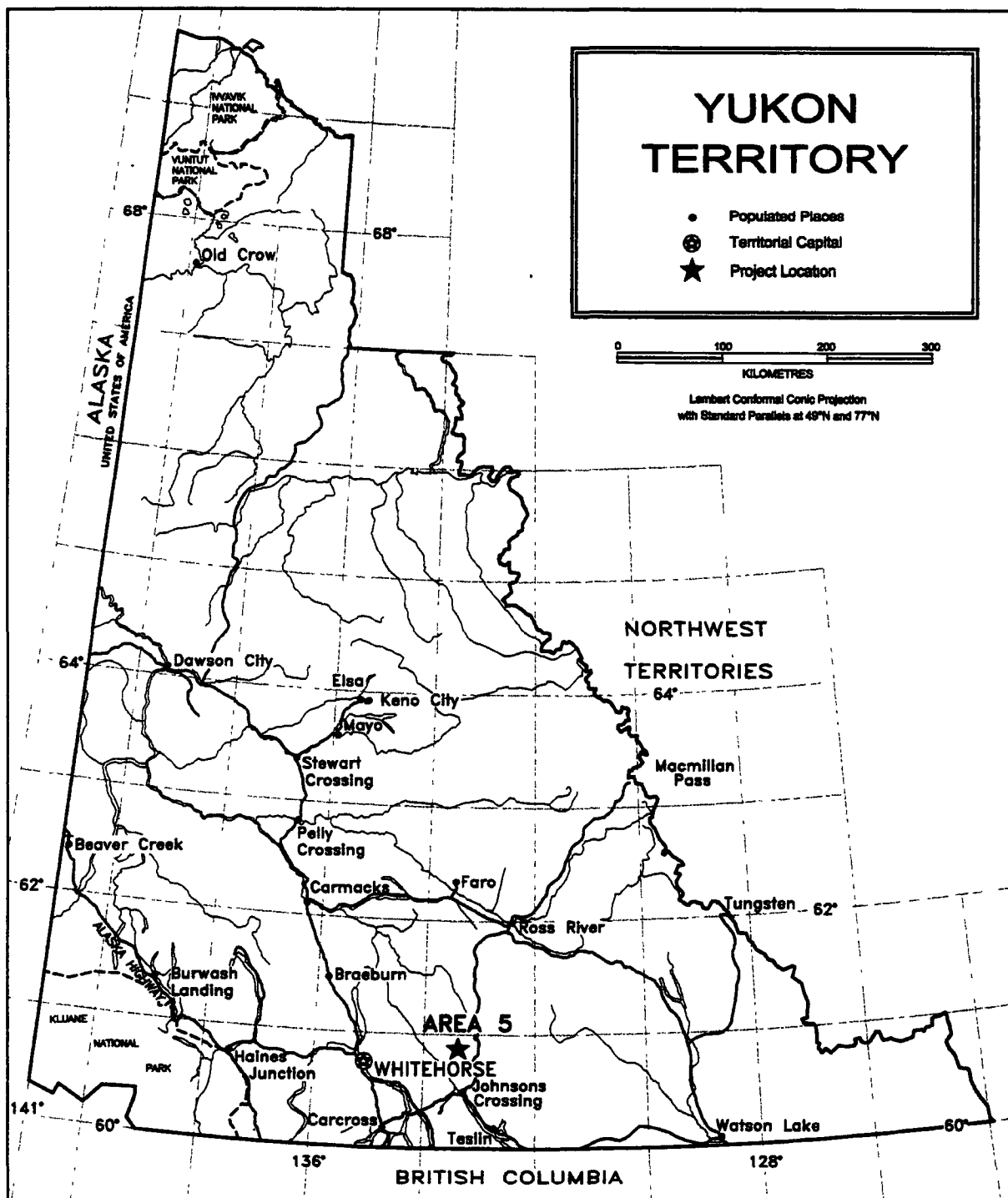
Devono-Mississippian metasedimentary and metavolcanic rocks of the Yukon-Tanana terrane, that form part of northwest trending band of rocks lying along the Sidney Creek valley, were the focus of the project. Elevated levels of Cu, Pb, Zn and Ba were detected in samples collected in two separate areas during prospecting in July and August 1997. Soil sampling in conjunction with further prospecting and more detailed lithological sampling is recommended.

AREA LOCATION AND ACCESS

The project area is located in the upper Sidney creek valley, an area that lies in the southern part of the Big Salmon range, south of Quiet Lake and west of the south Canol Road. Access to the eastern part of the area is via the Alaska highway east of Whitehorse to Johnson's Crossing and north on the Canol Road to the Sidney Creek tote road. Approximately 65 km of travel on loose surface bush roads is necessary after leaving the highway at Johnson's Crossing. The western end of the project area is accessible by aircraft from Whitehorse, located approximately 60 km to the southwest. The area is shown on Claim Map Sheet 105 C 13, see Figure 3

PREVIOUS WORK AND EXPLORATION

Historically, the Sidney Creek valley area has seen intermittent placer activity since the turn of the century, most of which was concentrated on Iron Creek during the early 1930's. In the 1970's considerable



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**UPPER SIDNEY CREEK
Area 5 Location Map**

Steve Traynor, Geologist

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NTS 105 C/14	DRAWN:	FIGURE 3

effort was focused on Red Mountain, a copper/moly porphyry which drilling showed to contain sub-economic grades of mineralization. Earlier work just to the south of Red Mountain intersected disseminated sulfides in one of three holes drilled into a package of schists and phyllites.

Ongoing work on the Bigtop property, to the east of the project area, has shown that the Sidney Creek valley contains a promising geological environment with good potential for the discovery of volcanogenic massive sulfide mineralization.

REGIONAL AND GENERAL GEOLOGY

A wide west-northwest trending band of strongly deformed marine volcanic rocks associated with thinly laminated terrigenous clastic rocks, metamorphosed to greenschist to amphibolite facies, can be traced from the south Canol Road through the Sidney Creek valley past the headwaters of Red Mountain Creek in the west. Within this band, a mixed volcano-sedimentary package consisting of interlayered carbonaceous shales and argillites, felsic volcanic and tuffaceous units was identified during general mapping and prospecting at Top Creek and Tarn Lake. These rocks are included in the Yukon-Tanana terrane and are thought to be Devonian-Mississippian in age.

Two phases of deformation, which have masked most primary textures in the rocks, were identified in the area. The first was a penetrative ductile deformation event producing tectonites, while the second was a folding event that has produced widespread crenulation of earlier fabrics and local cleavage development.

DESCRIPTION AND SUMMARY OF WORK

Work west of the Bigtop property, in the Top Creek area, was completed during two separate trips in July and August, 1997, see Figure 4. Other work in the area took the form of two 2 days of fixed wing and helicopter reconnaissance in the headwater areas of Sidney Creek and west to Baker Lakes, see field map in pocket.

Detailed prospecting and sampling of prospective host lithologies as well as some mapping of other possible areas of interest formed the bulk of the work. During the course of this work a total of fourteen claims were staked, two of these were staked in a cirque near the head of Red Mountain Creek and the other twelve were staked in the Top Creek area. As the result of an agreement, with the privately

funded exploration company that owns the Bigtop property, which contains commitments for ongoing work and a carried interest for the prospector, the claims have been transferred to 15053 Yukon Inc.

Work in the Tarn Lake area, see Figure 5, was proposed after strong gossans were observed in the walls of a north facing cirque that contains the two claims staked. Reconnaissance prospecting and sampling identified metasedimentary and metavolcanic lithologies similar to those identified as prospective elsewhere in the belt that contained elevated levels of Cu, Zn and As. Two parallel sample lines were run perpendicular to the regional strike across a scree slope in one of the more gossanous parts of the exposed sequence and grab sampling of various lithologies along strike to the west was completed.

A few grab samples were also collected in the Baker Lakes area further to the west in conjunction with this reconnaissance from a strongly gossanous and limonitically stained group of volcanic rocks.

ANALYSIS AND RESULTS

Samples from both the Tarn Lake and Top Creek area returned encouraging results, with elevated levels of Cu, Pb, Zn and Ba being detected. Rock descriptions, sample locations and selected results are presented as Appendix B and full results and certificates of analysis follow as Appendix C.

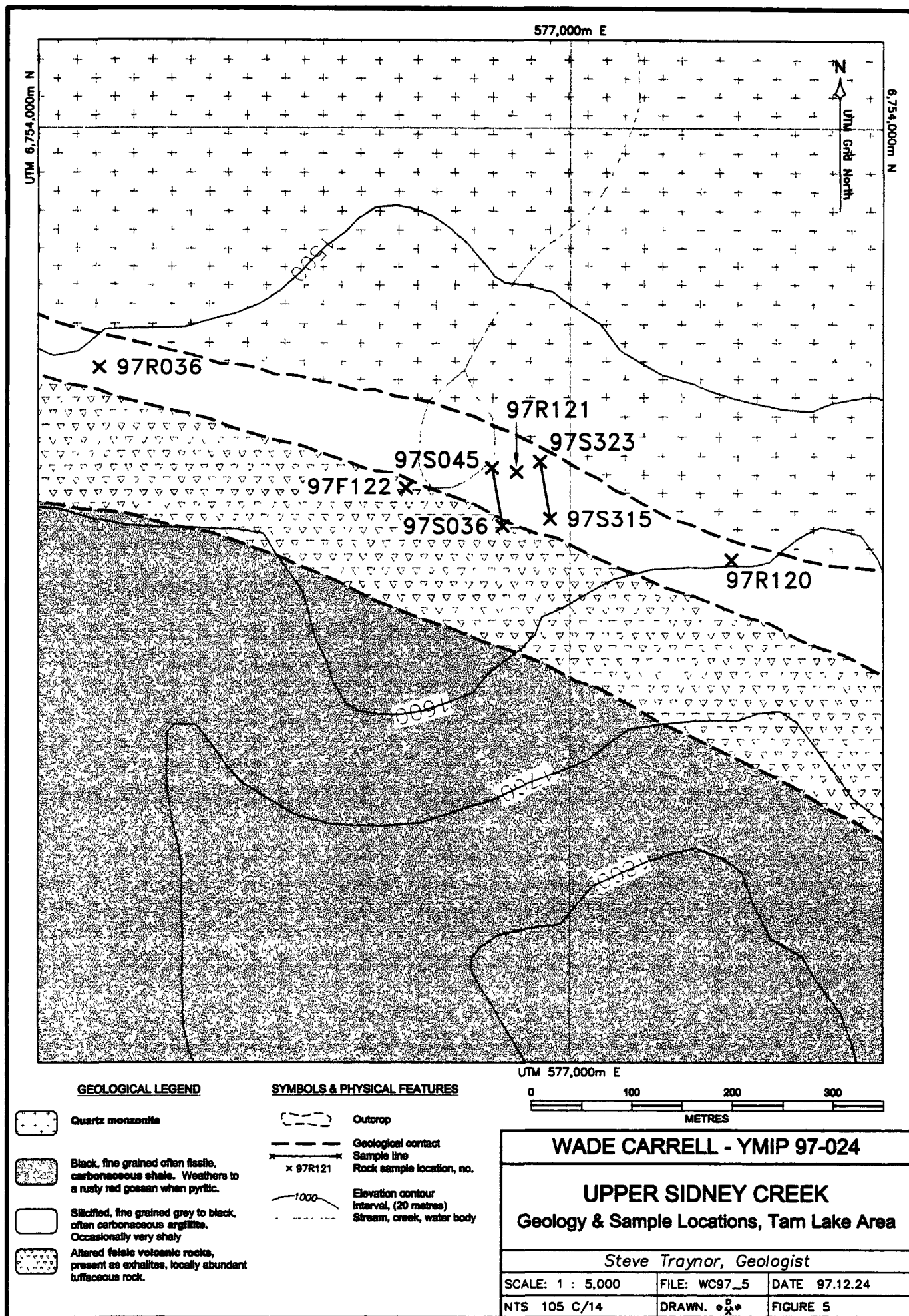
Peak values were obtained in the Tarn Lake area, where a sample of silicified carbonaceous argillite returned a value of 4,755ppm Zn and 234ppm Cu.

Sample 97R125 from a well sulfidized, partially brecciated volcanic rock, possibly a rhyolite, returned high As and Sb values and should be considered indicative of an environment that has good gold potential.

CONCLUSIONS AND RECOMMENDATIONS

Encouraging results, indicative of massive sulfide potential, were obtained from rock samples collected in the Tarn Lake and Top Creek area. Indications from this work and that of others in the area has shown that the entire belt of rocks that occupies the Sidney Creek valley should be considered prospective for the discovery of volcanogenic massive sulfides

Grid soil geochemistry and detailed prospecting are recommended for both areas and continuing grassroots reconnaissance of other targets in headwaters area of Red Mountain Creek is definitely indicated.



APPENDIX A
SUMMARY OF PROSPECTING ACTIVITIES
AND
FIELD NOTES

SUMMARY OF YMIP FUNDED 1997 FIELD ACTIVITIES – WADE CARRELL, YMIP 97-024

AREA 1- PELLY CROSSING AREA

- May 16 - 19, 1997
- General reconnaissance of area and roads, south and north of Pelly River.
 - Prospecting of river terraces and regional geological orientation.
 - Trace and grab sample prospective float
 - WSC and CRW
- Sept. 1, 1997
- Aerial reconnaissance of area to determine regional structural features and geological framework.
 - WSC and CRW
- Oct. 12 and 13, 1997
- Worked clearing old cat trail, identified during aerial reconnaissance, to provide improved access to target area.
 - WSC and CRW

AREA 2 – WILLIAMS CREEK (MERRICE LAKE) AREA

- May 3 and 4, 1997
- Orientation trip to determine road access and regional characteristics.
 - Investigated Freegold and Williams Creek roads as conditions permitted.
 - WSC and CRW
- August 31, 1997
- Aerial reconnaissance of area to assist in identifying regional control structures.
 - Investigated Williams Creek area trenching from the air and identified various overburden characteristics and limonitically stained zones.
 - WSC and CRW
- Oct. 2 - 11, 1997
- Detailed ground investigation and prospecting of areas of old claim blocks and various Minfile showings in the surrounding area.
 - Followup of GSC regional airborne magnetic survey and regional features during regional aerial reconnaissance on Aug. 31, 1997.
 - WSC and CRW

AREA 3 - AISHIHIK

No exploration activity in 1997, continuing research indicates this should be a priority target in 1998.

AREA 4 – MOUNT COCKFIELD

No exploration activity in 1997, C. Hart's ongoing study continues to show excellent potential in this belt.

AREA 5 (JULY 4/97 AMENDMENT) – UPPER SIDNEY CREEK VALLEY

- July 11 - 15, 1997
- Orientation reconnaissance of area west of Bigtop Property.
 - Prospecting and general mapping of Top Creek area and west.
 - Ground investigation of airborne geophysical targets.
 - Grab sampling of prospective lithologies.
 - WSC, SDT (12, 13), MC and JW.
- July 16, 1997
- Fixed wing reconnaissance of upper Sidney Creek valley to map gossans, areas of limonitic staining, as preparation for planned helicopter traverses
 - WSC, SDT and CRW

AREA 5 (JULY 4/97 AMENDMENT) – UPPER SIDNEY CREEK VALLEY – CONTINUED

- | | |
|--------------------|--|
| July 19, 1997 | <ul style="list-style-type: none">- Helicopter prospecting and sampling of upper Sidney Creek valley and Baker Lakes area.- Stake spoiler claims on Tarn Lake showing.- WSC, SDT, BS and CRW |
| Aug. 11 - 13, 1997 | <ul style="list-style-type: none">- Additional detailed prospecting and sampling of the Top Creek area.- WSC, JW. |
| Sept. 11, 12, 1997 | <ul style="list-style-type: none">- Claim staking to secure ground position in Top Creek area on the basis of favourable coincident geochemical, geophysical and geological indicators.- WSC. |

MENNICE LAKE AREA
May 3 / 97 1

F CARY & I LEFT FOR CAN-
M MACKS AT 8:AM. TO LOCATE
C ROAD ACCESS TO AREA OF
P INTEREST.

(FOLLOWED THE MOUNT FREE
I GOLD ROAD WEST OF CANMACKS

(THE OLD WILLIAMS CREEK ROAD
T WILL GIVE US ACCESS TO THE
I OLD TRAIL TO MENNIC LAKE.

9 WE CAMPED AT ~~THE~~ MENNIC
C CREEK.

(WE HIKE ALONG CANMACKS
COPPER LTD'S NEW ROAD
CUT & FOUND THE OLD CAT
ROAD TO MENNIC LAKE.

SOME BOGGY GROUND, BUT A
4X4 A.T.V. WILL HAVE NO REAL
PROBLEMS.

W. CARRELL
SUNNY - WARM

MENNICE LK. AREA
May 4 / 97 2

PACKED UP & MOVED TO
THE OLD WHITEHORSE - DAWSON
TRAIL.

THIS ROAD RUNS NORTH ALONG
THE YUKON RIVER A FEW
KILOMETERS WEST OF CANMACKS

WE DROVE IN AS FAR AS
CROSSING CREEK.

THE WATER LEVEL IS TOO
HIGH TO RISK CROSSING THE
CREEK WITH THE TRUCK.

WE WILL HAVE EASY ACCESS
TO THE OLD TOON CLAIMS
FROM THIS ROAD.

LEFT FOR WHITEHORSE AT
7.30 PM.

W. CARRELL
SUNNY - WARM

~~MAY 16~~ PELLY AREA
MAY 16/97 1

F LEFT FOR PELLY CROSSING
A AT 8:AM.
C
F RECONNAIRED THE ROADS ON
C THE NORTH SIDE OF PELLY
F RIVER.
C THE PELLY FARM ROAD IS
T OPEN TO TWO WHEEL DRIVE
F TRAFFIC.
q THE DEMAINE LAKE ROAD IS
C OPEN TO THE EAST OF
C PELLY AIR STRIP WITH
F SOME WET SPOTS.

WE MADE CAMP BY THE
RIVER JUST EAST OF PELLY.

W. CARRELL
SUNNY - WARM

PELLY CROSSING AREA
MAY 17/97 2

CLAYTON & I PROSPECTED
EAST OF AN OLD FISH
CAMP AT THE END OF THE
ROAD

WE TRAVERSED ALONG THE
RIVER BANK TO THE SOUTH
END OF GRANITE CANYON.

THE PELLY RIVER TERRACES
ARE GENTLY ROLLING EAST OF
THE MAYO ROAD WITH NO
OUTCROP WEST OF GRANITE
CANYON.

THE VEGETATION CONSISTS OF
SMALL POPLAR & SPRUCE TREES
WITH SOME GRASSY MEADOWS.

I SAMPLED AN AREA OF
RUSTY STAINED COBSUE STONES
ABOUT ONE HUNDRED METERS
WIDE. SEE MAP 115 I-16.

W. CARRELL
SUNNY - WARM

MAY 17 - PELLY KING
MAY 17/97 3

- F. SAMPLE 97R000 IS FROM
N THREE DIFFERENT COBBLES.
O
F ① A FINELY BEDDED BLACK SHALE
C WITH PYRITE CRYSTALS & 5%
F DISSEMINATED SULFIDES.
C ② A FINE GRAINED BLACK ULTRA-
T. MARIC ROCK WITH BLENDS OF SUL-
FIDE MINERALIZATION.
F ③ A BLACK ULTRAMARIC & WHITE
Q. QUARTZ BRETTA. THIS ROCK
C CONTAINS GREATER THAN 30%
F SULFIDES.
C
F THESE COBBLES ARE WELL
ROUNDED FROM GLACIAL ACTION,
HOWEVER THERE ARE A GREAT
NUMBER OF MINERALIZED ROCKS
IN A SMALL AREA OF RIVER
BED.

RETURNED TO CAMP 7:PM.

W. CARRELL
SUNNY WARM

PELLE CROSSING AREA
MAY 18/97 4

BROKE CAMP IN MORNING.

RECONNIED ROAD EAST OF
PELLE VILLAGE ON SOUTH
SIDE OF PELLE RIVER.

TURNED AROUND AT BOGGY
SPOT ABOUT HALF WAY TO
PTARMIGAN MOUNTAIN. THIS
ROAD SHOULD BE PASSABLE AS
SOON AS IT DRIES UP A BIT.

SET UP CAMP AT MINTO
LANDING & RECONNIED THE
WHITEHORSE - DAWSON TRAIL TO
THE WEST OF THE AIRSTRIP.

FIRE KILLED TREES HAVE BLOWN
DOWN BLOCKING THE ROAD.
WE WILL TRY THE ACCESS
ROAD AT KILOMETER 434 IN
THE MORNING.

W. CARRELL
BROKEN CLOUD - WARM

PELLE CROSSING AREA
MAY 19 1975 5

P. CLAYTON & I PACKED UP
N CAMP IN THE MORNING.
O
F. WE DROVE IN ON THE
C ACCESS ROAD NORTH WEST OF
F MINTO LANDING.
C WE TURNED BACK AT THE
T FIRST CREEK CROSSING ABOUT
F SIX MILES WEST OF THE HIWAY.
F THE WATER IS TOO DEEP TO
Q1 CROSS AT THIS TIME.
C THE CREEK IS JUST WEST
F OF THE RECENT FIRE KILL
AREA, THAT RUNS FROM NEAR
MINTO TO PELLE. THIS
ROAD WILL BE BETTER ONCE
IT DRIES UP.

WE PROSPECTED EAST OF
THE MAYO ROAD NEAR

W. CARRELL
BROKEN CLOUD

PELLE CROSSING AREA
MAY 19 1975 6

KILOMETER 428. THE FIRE
HAS EXPOSED AREAS OF
OUTCROP EAST OF THE HI-
WAY.
OUTCROP IS LIMONITICALLY STA-
INED CONGLOMERATE OF BASALT.

TOOK SOIL SAMPLE #975001-
975004 FROM RUSTY RED
SOILS NEAR THIS OUTCROP.

RETURNED TO WHITEHOUSE
AT 6: PM

W. CARRELL
CLOUD - WARM

UPPER SIDNEY CREEK
JULY 11/97 1

P. My son Morgan, Michael
M. Wilson & I prospected
O. west to the creek that
F. enters Sidney Creek above
C. Top Creek.

F. We traversed upstream on
C. ridge creek looking for
T. outcrop.

F. Lots of angular float in
Q. the stream bed. No out
C. crop found. This creek
F. valley is fairly wide com-
pared to Top Creek.

Most of the rocks are pieces
of carbonaceous shale.

No mineralization found.
Returned to camp by 7: PM.

W. Carrell
Sunny - Warm

UPPER SIDNEY CREEK
JULY 12/97 2

STEVE TRAYNOR, Morgan,
Michael & I traversed to
the top of Top Creek

No outcrop in the lower
Top Creek valley.

Angular pieces of shale in
float.

Bed rock exposed along last
one hundred meters of creek.

Bedrock is limonitic carbon-
shale & strikes 310° .

No samples taken.

Returned to camp 6: PM

W. Carrell
Cloudy - Warm

UPPER SIDNEY CREEK
JULY 13/97 3

P. STEVE, MICHAEL, MORGAN &
M. I TRAVERSED UP WEST OF THE
O. END OF BIG TOP RIDGE, TO
F. PROSPECT AIRBORN GEOPHYSICAL
C. TARGETS.

F. STEVE TOOK SAMPLES FROM
C. OUTCROP IN A FAULT AREA
TA. ABOVE TOP CREEK.

F. THE BOYS & I HELPED STEVE
QA. WITH GENERAL MAPPING OF THE
C. AREA.

F. WE RETURNED TO CAMP 6:30
PM

W. CARRELL
SUNNY - WARM

UPPER SIDNEY CREEK
JULY 14/97 4

STEVE & MICHAEL LEFT FOR
TOWN IN MORNING.

I PROSPECTED THE RIDGE
WEST OF TOP CREEK DOWN
TO SIDNEY CREEK.

LIMONITIC SHALES ON THE SOUTH
SIDE OF THE RIDGE TOP.

THE RIDGE DROPS STEEPLY FOR
ABOUT 1500 METERS, THEN SLOW
LY DROPS IN THREE BENCHES
TO SIDNEY CREEK.

NO OUTCROP FOUND.

RETURNED TO CAMP 7:PM

W. CARRELL
SUNNY WARM.

UPPER SIDNEY CREEK
JULY 15/97 5

PA
M
OL
FA

MORGAN & I TRAVERSED UP
TO THE RIDGE WEST OF
TOP CREEK.

C
FA
CI
TH

MAJOR RAIN FRONT MOVED IN
FROM THE WEST ABOUT 1.P.M.

RETURNED TO CAMP 134
3:30

FO
9A

NO SAMPLES TAKEN.

C
FC

W. CARRELL
RAIN - COOL

UPPER SIDNEY CREEK
JULY 16/97 6

CLAYTON THE BOYS & I
BROKE DOWN CAMP 134
NOON.

RETURNED TO WHITEHORSE
134 4: P.M.

WILL GO FLYING TOMORROW
WEATHER PERMITTING.

W. CARRELL
BROKEN CLOUD - SHOWERS

Upper Sidney Creek
July 17/97 7

P STEVE TRAYNOR, CLAYTON
M WILSON & I FLEW A FIXED
WING RECONNAISSANCE OF
SIDNEY CREEK VALLEY WEST
TO BAKER LAKE

C VERY DISTINCT GOSSAN ON NORTH
F SIDE OF THE MOUNTAIN, WHICH
C LIES ON THE NORTH SIDE OF
TA SIDNEY LAKES. THIS MOUNTAIN IS
F TEN KILOMETERS WEST OF BIG TOP.
91

C LESS DISTINCT GOSSANS CAN BE
F SEEN SOUTH WEST OF RED
MOUNTAIN THRU TO BAKER
LAKES.

THE BRIGHT PURPLE GOSSANS
EAST OF BAKER LAKE ARE
QUITE STRIKING.

MARKED AREAS OF INTEREST ON
TOPO MAPS.

W. CARRELL
BROKEN CLOUD

Upper Sidney Creek
July 18/97 8

CLAYTON & I RESUPPLIED
WITH GROCERIES.

WE PICKED UP SOME 4X4
POSTS FOR STAKING ON OUR
WAY OUT OF TOWN.

RETURNED TO CAMP &
GOT ORGANIZED FOR OUR
HELICOPTER EXPEDITION
TOMORROW

W. CARRELL
BROKEN CLOUD - SHOWERS

JOE Upper Sidney Creek
July 19/97 9

SIDNEY CREEK - BAKER LAKE
July 19/97

P. STEVE TRAYNOR, CLAYTON
M. WILSON, BERNARD STEHELIN
O. & I WENT HELICOPTER
FI PROSPECTING & STAKING WEST
OF BIG TOP RIDGE.

C
F. SAMPLE # 97R036, OUTCROP WEST
C OF TARN LAKE. STRIKE 298° DIP
TA 70° NORTH. ROCK IS STRONG
BLACK ARGILLITE, BEDDED WITH
F. CARBONACEOUS SHALE.

9A TOOK SAMPLES SOUTH OF TARN LAKE.
C. SOIL SAMPLE #S 97S037-045
F.

SAMPLE # 97R046 FROM FLOAT.
BUTCHER WITH SULFIDES.
TAKEN FROM SCREE SLOPE SOUTH
OF TARN LAKE.

SAMPLE #S 97S047 TO 97S049
NORTH EAST OF BAKER LAKE

W. CARRELL
BROKEN CLOUD

ALL FOUR OF US PROSPECTED
TARN LAKE. THEN CLAY &
STEVE USED THE HELICOPTER
TO STAKE THE SHOWING, AS
BERNARD & I TOOK SOIL SAMPLES.

BERNARD & I SOIL SAMPLED
A PURPLE GROSSAN N.E. OF
BAKER LAKE. STEVE & CLAYTON
PROSPECTED THE ROCK RIDGE
EAST OF US.

ALL OUTCROP IN THIS AREA IS
BASALT.

ALL FOUR OF US PROSPECTED
THE MOUNTAIN AT THE HEAD
WATERS OF RED MOUNTAIN CREEK.
NO MINERALIZATION FOUND.

THE TARN LAKE AREA APPEARS
TO BE A CONTINUATION OF THE
ROCK SUITE FOUND ON BIG TOP
RIDGE.

W. CARRELL
BROKEN CLOUD, WARM

UPPER SIDNEY CREEK
Aug 11/97

JAYSON WILSON & I PROSPECT
ED THE RIDGE WEST OF TOP
CREEK.

SAMPLE 97R-075 & 97R-076
TAKEN FROM LIMONITIC OUTCROP.
ROCK UNIT IS SILICIOUS ARG-
ILITE WITH QUARTZ IN THE
BEDDING. STRIKE IS 335° &
DIP IS 30° SOUTH.

SAMPLE 97R-077 TAKEN FIVE
METERS SOUTH OF FIRST SAMPLES
DRUSY ARGILITE WITH LESS QUARTZ.

SAMPLE 97R-078 TAKEN ON
NORTH SIDE OF OUTCROP 60
METERS NORTH, 20 METERS
WEST OF FIRST SAMPLE LOC-
ATION.

SAMPLE 97R-079 TAKEN

W. CARRELL
CLOUDY - WARM

UPPER SIDNEY CREEK
Aug 11/97

FIFTY METERS NORTH, TWENTY
METERS WEST OF LAST LOCATION.

LAST TWO SAMPLES WERE SIL-
ICIOUS BLACK ARGILITE WITH 20%
SULFIDES.

SAMPLE 97R-080 TAKEN FROM
DRUSY ARGILITE UNIT, FIFTY
METERS NORTH OF LAST
SAMPLE LOCATION. 25% SULFIDE.

ROCK OUTCROP ALONG THE
TOP OF THIS RIDGE IS A
MIX OF INTERBEDDED CARBON-
ACIOUS SHALES & SILICIOUS BLACK
ARGILITES.

ROCK IS EXPOSED IN THIS
AREA TO A WIDTH OF ONE
HUNDRED SIXTY METERS.

W. CARRELL
BROKEN CLOUD - WARM

UPPER SIDNEY CREEK
Aug 12 / 97 3

JAYSON & I RETURNED TO
THE RIDGE WEST OF TOP
CREEK.

INTERBEDDED SHALES &
ARGILITES ARE EXPOSED
ALONG STRIKE FOR TWO
HUNDRED METERS.

STARTED RAINING HEAVILY
AT NOON.

RETURNED TO CAMP BY
FIVE P.M.

NO SAMPLES TAKEN.

W. CARRELL
CLOUD - RAIN

UPPER SIDNEY CREEK
Aug 13 / 97 4

I PROSPECTED WEST SIDE
OF RIDGE WEST OF TOP
CREEK.

TOOK SAMPLE 97R-083 FROM
OUTCROP, FIFTY METERS DOWN
SLOPE FROM CENTRE OF HILL.

SAMPLE IS DRUSY BLACK ARGILITE
WITH TWENTY FIVE % SULFIDES.
STRIKE IS 350° & DIP IS 78°
NORTH

SAMPLE 97R-084 TAKEN TWENTY
METERS NORTH & THIRTY METERS
UP SLOPE FROM LAST SAMPLE.

SAMPLE - LIMONITIC BLACK
ARGILITE 25 % SULFIDES.

W. CARRELL
CLOUD - RAIN

MENNIE LAKE AREA
August 31/97 1

CLAYTON & I FLEW FIXED
WING RECON OF MENNICIE
LAKE AREA.

WE OVER FLEW THE WILLIAMS
CREEK PROPERTY OF CARMACKS
COPPER LTD.

THE TRENCHING DONE TO THE
NORTH & WEST OF THE PIT
& PAD AREA, HAS EXPOSED
SOILS OF A YELLOW COLOR.

THIS COLOR IF SEEN ELSE-
WHERE IN THE AREA, COULD
INDICATE MINERALIZATION.

WE FOLLOWED WILLIAMS CREEK
TO THE YUKON RIVER. THEN
WE FLEW THE RIVER VALLEY
EAST TO THE FREEGOLD ROAD.

W. CARRELL
SUNNY - WARM

MENNIE LAKE AREA
Aug 31/97 2

WE OVER FLEW MENNICIE LAKE,
FROM EAST TO WEST.

MENNIE CREEK FLOWS NORTH
FROM THE NORTH WEST END
OF THE LAKE.

THERE IS A YELLOW GOSSAN
ON THE WEST SIDE OF THE
CREEK CANYON, ABOUT ONE
HALF MILE FROM THE END
OF THE LAKE.

WE FLEW THE CREEK VALLEY
THREE TIMES. THERE IS
ANOTHER STAINED AREA OR
OUTCROP, ABOUT HALF A MILE
NORTH OF THE FIRST ONE.

THESE AREAS OF COUNTRY
ROCK APPEAR TO BE CUT
BY VERTICAL DIKES.

W. CARRELL
SUNNY - WARM

MERRICK LAKE AREA
Aug 31 1973 3

WE OVERFLEW THE HILLS
NORTH OF MERRICK LAKE &
EAST TO YUKON RIVER.

ALL OUTCROP IS EXPOSED NEAR
THE TOPS OF THE HILLS.

THE ROCK NORTH & EAST OF
MERRICK LAKE IS GREY AND
UNMINERALIZED.

OUR BEST TARGET FOR PROS-
PECTING IS MERRICK CREEK.

RETURNED TO WHITEHOUSE
3:30 PM.

W. CARRELL
SUNNY - WARM

PELLY CROSSING AREA
SEPT. 1/97 1

P. CLAYTON & I FLEW FIXED
M. WING RECON OF PELLY
O. AREA, FROM PTARMIGAN MTN.,
F. TO FT. SELKINK.

C. PTARMIGAN MTN APPEARS TO BE
F. UNMINERALIZED GREY LIMESTONE.

C. GRANITE CANYON HAS DEFINITE
T. LIMONITIC GLOSS ON BOTH
F. SIDES OF THE RIVER.

q. THE GLOSSANOUS ROCK IS EXPOSED
FOR HALF THE LENGTH OF THE
C. CANYON.

F. HIGHLY LIMONITIC ROCK IS EXPOSED
ON BOTH SIDES OF PELLY RIVER
FROM BRADENS CANYON TO
PELLY FARMS.

FROM PELLY FARMS DOWN-
STREAM TO FT. SELKINK, THE

W. CARRELL
BROKEN CLOUD - WARM

PELLY CROSSING AREA
SEPT 1/97 2

NORTH BANK OF THE RIVER
FORMS A LARGE PLATEAU.
THIS PLATEAU IS COMPOSED
OF FIVE LAYERS OF BASALT.
THE BASALT IS EXPOSED IN
STEEP CLIFFS THAT SURROUND
THE PLATEAU.

WE FLEW BACK TO PELLY
CROSSING ON THE SOUTH SIDE
OF THE RIVER.

THE MOUNTAIN RIDGES JUST
SOUTH OF PELLY RIVER APPEAR
TO BE LIMESTONE.

LIMONITIC ROCK IS EXPOSED TO
A WIDTH OF TWO MILES FROM
THE LIMESTONE RIDGES NORTH TO
PELLY RIVER. ACCESS TO WEST
END OF THIS AREA VIA THE WHITE-
HORSE - DAWSON TRAIL IS POSSIBLE.

W. CARRELL
BROKEN CLOUD - WARM

UPPER SIDNEY CREEK
SEPT 11/97 1

CLAIM STAKING WEST
OF TOP CREEK.

I STARTED STAKING AT 11:30
AM & STOPPED FOR DAY
AT 4: PM.

CLAIMS WERE AS FOLLOWS

Post # 1	11:30 AM
Big Top #65 & Big Top #66	
1500' S.	1500' S
1500' LEFT	1500' RIGHT
SEPT 11/97	SEPT 11/97
W. CARRELL	W. CARRELL

Post # 1	12:15 PM
Big Top #67 & Big Top #68	
1500' S	1500' S
1500' LEFT	1500' RIGHT
SEPT 11/97	SEPT 11/97
W. CARRELL	W. CARRELL

W. CARRELL
RAIN SHOWERS - COOL

UPPER SIDNEY CREEK
SEPT 11/97 2

Post #1 1: PM
Big Top #69 & Big Top #70

Post #1 1:45 PM
Big Top #71 & Big Top #72

Post #1 2:30 PM
Big Top #73 & Big Top #74

Post #1 3:15 PM
Big Top #75 & Big Top #76

FROM POST #2 ON BIG TOP
75 & 76 I TOOK A DIRECT
BEARING TO SIDNEY CREEK.

I FOLLOWED THE TRAIL TO
THE ROAD AT SIDNEY CREEK
CROSSING & THE TRUCK CRAYTON
HAD LEFT FOR ME.

BACK AT CAMP 5:30 PM

W. CARRELL
RAIN SHOWERS - COOL

UPPER SIDNEY CREEK
SEPT 12/97 3

I RETURNED TO THE NEW
CLAIM BLOCK WEST OF TOP
CREEK.

I SLASHED & FLAGGED THE
COMMON LINE FROM POST #
1 BIG TOP 65 & 66 TO POST
#2 BIG TOP 75 & 76.

I MADE SUCH GOOD TIME
YESTERDAY BECAUSE I DIDN'T
SLASH OR FLAG THE COMMON
LINE.

HIKED OUT TO ROAD 134
4:30 PM.

RETURNED TO CAMP 5:PM

W. CARRELL
CLOUD - RAIN

FOR MERRICK LAKE
DATE OCT 2/97 PAGE 1

SET UP CAMP ON MERRICK
CREEK, 1/2 MILE FROM NORTH
END OF MERRICK LAKE.

TRAVERSED NORTH ON MERRICK
CREEK.

BEDROCK OUTCROPS ON WEST SIDE
OF CREEK, MOSTLY HORNBLEND
GRANODIORITE, CUT BY QUARTZ-
FELDSPAR DIKES.

THE DIKES HAVE A PORPHYRITIC
TEXTURE & STRIKE IN A NORTH-
NORTHWESTERLY DIRECTION, DIPPING
AT 90° .

THE GRANODIORITE IS UNMINERAL-
IZED. SOME DIKES CONTAIN 1%
SULFIDES.

TOOK SAMPLE 97R 270 FROM
QUARTZ-FELDSPAR DIKE.

W. CARROLL
SUNNY - COLD

FOR MERRICK LK.
DATE OCT. 3/97 PAGE 2

TRAVERSED NORTH ON EAST SIDE
OF MERRICK CREEK. STARTED AT
NORTH END OF MERRICK LAKE.

VALLEY FLOOR IS 200 METERS WIDE
AT THE HEAD OF THE LAKE.

NO OUTCROP ON THE EAST SIDE
OF THE CREEK. THE SLOPE IS
MUCH SHALLOWER THAN ON THE WEST.

THE CREEK APPEARS TO FOLLOW A
THRUST FAULT, AS THE WEST
SIDE, RISES SHARPLY, EXPOSING
BEDROCK IN NUMEROUS CLIFF
FACES.

TOOK SAMPLE 97R-271 FROM
FLOAT IN CREEK. SAMPLE IS A
FINE GRAINED PORPHYRY WITH SMALL
CLASTS OF FELDSPAR. NO
VISIBLE MINERALIZATION.

W. CARROLL
SUNNY - COLD

JOB

DATE

DEER AREA

MERRICK LAKE
OCT 4 1977 3

F TRAVERSED TO NORTH EAST OF
C MERRICK LAKE, TO PROSPECT AEROMAG
F HIGH.

C SOME WILLOW GROWTH IN THE VALLEY
F BOTTOM. OTHERWISE THE TERRAIN
C IS COVERED BY OPEN PINE FOREST,
T WITH LITTLE UNDERGROWTH.

F PROSPECTED BEDROCK EXPOSED ALONG
Q THE UPPER EDGE OF MERRICK CREEK
C VALLEY.

F THE ROCK IS UNMINERALIZED HORN-
BLENDED GRANODIORITE, WITH SOME
SMALL QUARTZ VEINS.
NO LIMONITIC STAINING.

RETURNED TO CAMP 6:PM.

W. CARRELL
SUNNY - COLD

MERRICK LK.

OCT 5 1977 4

TRAVERSED EAST OF NORTH END
OF MERRICK LAKE.

EASY HIKING WITH LITTLE UNDER-
GROWTH.

OCCASIONAL OUTCROPS OF GRANO-
DIORITE ON THE HIGH GROUND.

NO LIMONITIC STAINING.

NO MINERALIZATION.

NO SAMPLES TAKEN.

RETURN TO CAMP 5:30 PM

W. CARRELL
BROKEN CLOUD - COOL

MERRICK LAKE

OCT 6/97 5

CLAY & I TRAVERSED THE
OLD WILLIAMS CREEK ACCESS
ROAD.

THE ROAD FOLLOWS THE RIDGE
BETWEEN WILLIAMS & MERRICK
CREEKS.

WE PROSPECTED NORTH AS FAR
AS THE YUKON RIVER.

ALL OF THE OUTCROP EXPOSED
ALONG THE RIDGE OR IN THE
ROAD CUT IS UNMINERALIZED
GRANODIORITE.

SOME SMALL QUARTZ VEINS,
NO LIMONITE.

NO SAMPLES TAKEN

W. CARRELL
CLEARING - COOL

MERRICK LK.

OCT. 7/97 6

CLAY & I RECONNOITERED
THE OLD WHITEHORSE - DAWSON
TRAIL, SOUTH OF THE OLD
WILLIAMS CREEK ROAD.

THIS ROAD FOLLOWS THE YUKON
RIVER VALLEY & JOINS WITH
THE FREEGOLD ROAD, NORTH -
WEST OF CARMACKS.

TRAVELED SOUTH AS FAR AS THE
BANKS OF CROSSING CREEK,
NEAR THE YUKON RIVER.

WITH SOME POWER SAW WORK,
THIS ROAD WOULD BE PASSABLE
FOR FOUR WHEEL DRIVE TRUCKS.

NO OUTCROP.

RETURNED TO CAMP 6:15 PM

W. CARRELL
SUNNY - COLD

MERRICK LAKE
OCT 8 / 97 7

- 1 CLAY & I TRAVERSED UP TO
- 1 THE OLD POON CLAIMS.
- 1 STARTED THE HIKE FROM THE
- 1 NEW ACCESS ROAD TO WILLIAMS
- 1 CREEK.
- 1 EASY HIKING THROUGH OPEN
- 1 PINE FOREST.
- 1 GENTLY ROLLING TERRAIN, WITH
- 1 FEW OUTCROPS.
- 1 OUTCROPS ARE GRANODIORITE.
- 1 NO MINERALIZATION FOUND.
- 1 NO SAMPLES TAKEN.

RETURNED TO CAMP 5: PM

W. CARRELL
SUNNY - COLD

MERRICK LAKE
OCT 9 / 97 8

WE TRAVERSED UP TO THE
OLD POON CLAIMS FROM THE
FREEGOLD ROAD.

THERE ARE SOME QUANTZ &
FELDSPAR VEINS IN THE GRANO-
DIORITE, WHICH OUTCROPS ON THE
NORTH SIDE OF THE ROAD CUT.

200 METERS NORTH OF THE ROAD
THE HILLS ARE GENTLY SLOPING,
COVERED WITH TILL & OPEN PINE
FOREST.

DIRT COVER IS SHALLOW ON
THE HIGHTS & DEEP IN THE
GULLIES & THE VALLEY OF CROSS-
ING CREEK.

DEPTH OF DIRT COVER IS
BEST SEEN ALONG THE NORTH
SIDE OF THE FREEGOLD ROAD
CUT.

ASH LAYERS VARY FROM

W. CARRELL
BROKEN CLOUD - SNOW
IN MORNING - CLEAR AFTERNOON

MERRICK LAKE
OCT 9/97 9

- 1 THREE INCHES TO TWO FEET IN THICKNESS, AT THE SURFACE.
- 1
- 1
- 1 A LAYER OF ORGANIC DIRT FROM ONE TO TWO FEET THICK, SEPARATES THE SURFACE ASH FROM A 2ND. ASH LAYER.
- 1
- 1
- 7 THE SECOND ASH LAYER IS MIXED WITH GRAVEL UP TO TWO FEET IN THICKNESS.
- 9
- 1 UNDER THE SECOND ASH LAYER IS GLACIAL TILL OF INDETERMINATE DEPTH.

RETURNED TO CAMP 6: PM

WILL MOVE CAMP TOMORROW.

W. CARRELL
SNOW IN MORNING
CLEAR IN AFTERNOON

MERRICK LAKE AREA
OCT 10/97 10

SET UP CAMP NEAR YUKON RIVER ON DAWSON TRAIL.

PROSPECTED SOUTH END OF OLD TOON CLAIM BLOCK.

A SHARPLY RISING ROCK BLUFF ON THE WEST SIDE OF CROSSING CREEK IS HORNBLEND GRANODIORITE.

THE DIORITE IS CUT BY NORTHWEST TRENDING VEINS & DIKES OF QUARTZ & FELDSPAR.

THIS AREA IS IDENTICAL TO THAT FOUND ON THE WEST SIDE OF MERRICK CREEK.

NO VISIBLE MINERALIZATION FOUND.

W. CARRELL
BROKEN CLOUD - COLD

MERRICK LAKE AREA

OCT 11/97 11

CLAY & I TRAVERSED TO THE WEST OF CAMP.

WE PROSPECTED THE NORTH END OF THE OLD TOON CLAIM BLOCK.

WE FOLLOWED THE EDGE OF THE RIDGE ON THE SOUTH SIDE OF THE WEST FORK OF CROSSING CREEK.

OPEN PINE FOREST WITH A FEW OUTCROPS OF GRANODIORITE.

NO MINERALIZATION FOUND.

TURNED BACK FOR CAMP AT NOON. SNOW FALLING STEADILY SINCE EARLY MORNING & THE SLOPES ARE ~~TRECH~~ TREACHEROUS.

TWO INCHES OF SNOW AT 6:PM

W. CARRELL
SNOW - COLD

PELLY XING AREA

OCT 12/97 12

MOVED CAMP TO ACCESS ROAD JUST NORTH OF MINTO LANDING.

CLAY & I POWER SAWED DEAD FALL FROM THE OLD CAT TRAIL.

CUT OUR WAY WEST TO FIRST CREEK CROSSING.

BY NIGHTFALL WE HAD OPENED UP FOUR MILES OF ROAD.

ABOUT THREE INCHES OF SNOW ON GROUND.

WILL PACK UP FOR TOWN TOMORROW.

W. CARRELL
SNOW - COLD

PELLY CROSSING
OCT 13/97 13

F PACKED up CAMP BY
M 11: AM.

C
F WORKED ON THE ROAD
TILL 3: PM.

C
F FOUR INCHES OF SNOW
C & MORE FALLING.

T
F PULLED INTO WHITEHORSE
6:45 PM.

9.
C WILL HAVE TO CUT MORE
F DEAD FALL NEXT YEAR.

W. CARRELL
SNOW - COLD

APPENDIX B

ROCK SAMPLE REPORT

AND

SELECTED RESULTS

[illegible]

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	ANALYTICAL RESULTS (Partial) (Au in ppb, Fe in %, all other elements in ppm)									
			Au	Ag	Cu	Pb	Zn	Mo	Cd	As	Fe	Ba
97R047	Baker Lakes– Area 5	Soil sample over gossanous basalt.	<5	<0.2	13	5	27	<1	<0.2	<5	4.94	257
97R048	Baker Lakes– Area 5	Soil sample over gossanous basalt	<5	<0.2	19	5	28	<1	<0.2	<5	3.56	375
97R049	Baker Lakes– Area 5	Soil sample over gossanous basalt	<5	<0.2	11	5	24	<1	<0.2	<5	2.67	340
97R075	Top Creek – Area 5	Carbonaceous, very silicified argillite with up to 10% sulfides	<5	2.5	243	21	662	33	11.2	73	0.89	53
97R076	Top Creek – Area 5	similar to 075, but with prominent quartz rich(felsic?) laminations.										
97R077	Top Creek – Area 5	Similar to 073 May contain what represent quartz veinlets flattened into the plane of schistosity										
97R078	Top Creek – Area 5	Similar to 073, but with neat aphyric texture	<5	1.0	130	5	668	21	11.0	14	2.69	47
97R079	Top Creek – Area 5	???Thinly laminated black sediment and felsics(?) showing possible fragmental or flow textures Moderatly schistose										
97R080	Top Creek – Area 5	Similar to 079, except more silicified.	<5	0.7	90	3	202	15	1.8	6	4.53	41
97R083	Top Creek – Area 5	Very fine grained, black shaly argillite, with minor graphite and biotite developed Up to 5% sulfides.	16	<.5	79	17	1015	26	15	<5	0.99	>2000
97R084	Top Creek – Area 5	Similar to 083 with more felsic(possibly quartz rich sediment?). Well gossaned and silicified.	16	<.5	94	10	670	17	9	<5	2.21	1887
97R106	Top Creek – Area 5	Very silicified, dark grey felsic with up to 5% sulfides. Possibly interbedded with tuff(?)	<5	0.7	70	32	52	2	0.7	16	2.74	58
97R107	Top Creek – Area 5	Altered felsic, showing strong silicification and biotization										
97R108	Top Creek – Area 5	Felsic(biotite quartz schist), very thinly laminated and gossanous.										
97R119	Tarn Lake – Area 5	Cemented highly oxidized sulfide leach cap.	<5	1.2	114	6	34	4	<0.2	<5	>10.00	33

[illegible]

APPENDIX C

**CERTIFICATES
OF
ANALYSIS**



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

REPORT: V97-01744.0 (COMPLETE)

REFERENCE:

CLIENT: TANANA EXPLORATION

SUBMITTED BY: S. TRAYNOR

PROJECT: IRON CREEK

DATE RECEIVED: 23-JUL-97 DATE PRINTED: 31-JUL-97

DATE APPROVED	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
970729	1 Au30	Gold	20	5 PPB	Fire Assay of 30g	30g Fire Assay - AA	S SOIL	39	1 -80	39	CRUSH/SPLIT & PULV.	7
970729	2 Ag	Silver	47	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	R ROCK	8	2 -150	8	DRY, SIEVE -80	38
970729	3 Cu	Copper	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	REPORT COPIES TO: P.O. BOX 4375				INVOICE TO: P.O. BOX 4375	
970729	4 Pb	Lead	47	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	***** This report must not be produced 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 *****					
970729	5 Zn	Zinc	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	6 Mo	Molybdenum	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	7 Ni	Nickel	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	8 Co	Cobalt	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	9 Cd	Cadmium	47	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	10 Bi	Bismuth	47	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	11 As	Arsenic	47	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	12 Sb	Antimony	47	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	13 Fe	Iron	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	14 Mn	Manganese	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	15 Te	Tellurium	47	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	16 Ba	Barium	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	17 Cr	Chromium	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	18 V	Vanadium	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	19 Sn	Tin	47	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	20 W	Tungsten	47	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	21 La	Lanthanum	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	22 Al	Aluminum	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	23 Mg	Magnesium	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	24 Ca	Calcium	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	25 Na	Sodium	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	26 K	Potassium	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	27 Sr	Strontium	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	28 Y	Yttrium	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	29 Ga	Gallium	47	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	30 Li	Lithium	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	31 Nb	Niobium	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	32 Sc	Scandium	47	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	33 Ta	Tantalum	47	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	34 Ti	Titanium	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970729	35 Zr	Zirconium	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
1000W-50N		<.2	9	5	156	<1	10	9	4.4	<5	<5	<5	<5	1.45	789	<10	128	15	34	<20	<20	6	0.73	0.24	0.20	0.02	0.06	13	2	3	5	<1	<5	<10	0.07	<1
1000W-100N		<.2	9	7	738	<1	27	14	13.7	<5	<5	<5	<5	1.91	935	<10	258	23	42	<20	<20	9	1.00	0.34	0.30	0.01	0.06	25	3	4	8	<1	<5	<10	0.08	<1
1000W-150N		<.2	5	6	104	<1	7	5	2.4	<5	<5	<5	<5	1.66	137	<10	85	21	42	<20	<20	11	0.72	0.19	0.19	0.01	0.05	13	2	4	3	<1	<5	<10	0.09	<1
1000W-200N		1.0	185	69	616	10	55	5	2.1	<5	8	<5	<5	4.84	148	<10	131	61	96	<20	<20	11	1.78	0.47	0.17	0.02	0.05	26	24	5	11	<1	<5	<10	0.05	<1
1000W-250N		<.2	10	8	282	2	16	8	3.9	<5	<5	<5	<5	2.41	294	<10	155	29	59	<20	<20	11	1.26	0.44	0.22	0.01	0.08	17	3	5	12	<1	<5	<10	0.09	3
1000W-300N		1.9	94	21	300	33	35	4	1.5	<5	8	<5	<5	5.34	154	<10	92	16	109	<20	<20	4	1.20	0.27	0.07	0.02	0.05	26	3	6	5	<1	<5	<10	0.06	1
1000W-400N		0.3	47	13	362	8	33	5	2.5	<5	<5	<5	<5	2.21	172	<10	113	35	96	<20	<20	9	1.35	0.63	0.17	0.01	0.05	17	7	5	9	<1	<5	<10	0.09	1
1000W-450N		<.2	60	8	1188	6	79	11	4.1	<5	<5	<5	<5	3.00	342	<10	217	23	79	<20	<20	8	1.76	0.73	0.39	0.02	0.08	53	8	5	24	<1	5	<10	0.11	1
1000W-500N		0.5	71	10	338	7	56	11	2.7	<5	<5	<5	<5	3.28	320	<10	272	43	85	<20	<20	12	1.74	0.72	0.50	0.03	0.11	61	11	5	11	<1	<5	<10	0.08	1
1100W-50N		0.6	54	14	892	8	61	16	5.2	<5	19	<5	<5	4.29	337	<10	217	45	136	<20	<20	8	2.16	0.75	0.13	0.02	0.11	31	5	7	14	<1	<5	<10	0.13	4
1100W-100N		0.4	28	27	137	10	16	5	1.9	<5	14	<5	<5	4.44	147	<10	367	49	128	<20	<20	9	1.23	0.41	0.12	0.03	0.13	77	3	6	7	<1	<5	<10	0.09	1
1100W-150N		0.7	158	26	558	14	38	3	1.5	<5	6	<5	<5	3.14	111	<10	138	54	92	<20	<20	12	1.35	0.39	0.09	0.01	0.06	33	25	4	6	<1	<5	<10	0.03	<1
1100W-200N		0.3	26	14	359	4	30	10	1.9	<5	7	<5	<5	3.27	241	<10	253	34	95	<20	<20	10	1.22	0.45	0.17	0.02	0.11	43	3	5	11	<1	<5	<10	0.09	1
1100W-250N		0.7	71	15	451	16	25	7	3.0	<5	7	<5	<5	5.73	295	<10	330	40	161	<20	<20	8	1.76	0.78	0.20	0.04	0.20	88	5	6	10	<1	6	<10	0.11	3
1100W-300N		1.3	42	22	127	34	18	3	1.5	<5	28	<5	<5	5.68	86	<10	260	44	137	<20	<20	9	1.68	0.26	0.06	0.06	0.13	104	3	6	5	<1	<5	<10	0.07	3
1100W-350N		0.6	71	22	217	16	28	4	2.4	<5	9	<5	<5	4.80	167	<10	269	44	127	<20	<20	11	1.50	0.59	0.11	0.05	0.18	96	5	5	8	<1	<5	<10	0.08	<1
1100W-400N		0.4	28	12	294	6	36	10	1.8	<5	<5	<5	<5	3.05	319	<10	210	37	87	<20	<20	10	1.64	0.62	0.31	0.02	0.10	31	6	5	10	<1	<5	<10	0.11	2
1100W-500N		0.5	29	10	191	5	32	10	1.3	<5	<5	<5	<5	2.32	662	<10	181	24	66	<20	<20	7	1.03	0.39	0.52	0.02	0.06	30	7	4	5	<1	<5	<10	0.06	<1
975037	<5	0.6	155	8	408	26	58	25	2.2	<5	62	6	6.49	744	<10	589	47	176	<20	<20	11	2.54	1.16	0.44	0.03	0.26	30	15	8	33	<1	11	<10	0.12	1	
975038	<5	0.6	115	8	282	17	45	27	1.4	<5	42	<5	<5	5.60	747	<10	396	40	140	<20	<20	10	2.47	1.19	0.64	0.03	0.26	31	12	7	30	<1	9	<10	0.11	<1
975039	12	0.9	149	9	389	27	56	26	1.8	<5	78	8	6.67	820	<10	552	47	186	<20	<20	10	2.53	1.09	0.48	0.03	0.25	30	14	8	31	<1	10	<10	0.10	<1	
975040	6	0.7	141	11	444	24	64	25	3.3	<5	97	9	6.24	827	<10	612	43	171	<20	<20	10	2.30	1.05	0.47	0.03	0.23	31	14	7	30	<1	9	<10	0.10	1	
975041	6	0.7	200	10	798	51	117	23	3.4	<5	124	9	6.20	925	<10	906	54	351	<20	<20	13	2.16	0.81	0.35	0.02	0.17	22	19	7	29	<1	9	<10	0.07	<1	
975042	9	0.7	188	9	668	43	91	21	2.5	<5	133	8	6.37	806	<10	778	55	319	<20	<20	12	2.33	0.93	0.35	0.03	0.20	24	17	7	32	<1	10	<10	0.08	<1	
975043	<5	0.7	166	9	598	43	83	11	1.6	<5	126	9	6.80	444	<10	731	55	326	<20	<20	10	2.11	0.86	0.36	0.02	0.18	24	13	7	29	<1	9	<10	0.08	1	
975044	6	0.8	185	9	637	44	94	21	2.4	<5	133	9	6.55	785	<10	762	58	325	<20	<20	12	2.34	0.91	0.35	0.02	0.19	25	17	7	31	<1	10	<10	0.09	1	
975045	6	0.8	188	9	664	45	96	21	2.5	<5	132	10	6.48	802	<10	777	57	334	<20	<20	12	2.36	0.91	0.36	0.02	0.19	24	17	7	31	<1	10	<10	0.08	1	
975047	<5	<.2	13	7	27	<1	34	11	<0.2	<5	<5	8	4.94	636	<10	257	131	75	<20	<20	3	0.94	0.33	1.00	<.01	0.18	44	12	5	5	<1	15	<10	0.03	3	
975048	<5	<.2	19	5	28	<1	34	12	<0.2	<5	<5	<5	3.56	518	<10	375	79	69	<20	<20	7	1.55	0.34	0.42	<.01	0.19	35	10	5	7	<1	13	<10	0.02	4	
975049	<5	<.2	11	5	24	<1	20	8	<0.2	<5	<5	<5	2.67	453	<10	340	56	50	<20	<20	5	1.31	0.23	0.31	0.01	0.21	27	4	4	8	<1	7	<10	0.03	3	



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	
975315			5.2	120	16	155	52	16	3	<0.2	<5	99	<5	>10.00	164	<10	331	161	796	<20	<20	7	1.01	0.49	0.10	0.02	0.24	18	7	11	11	<1	5	<10	0.04	<1	
975316			2.4	95	13	148	33	13	3	<0.2	<5	83	<5	>10.00	195	<10	256	102	417	<20	<20	7	1.14	0.65	0.11	0.02	0.18	18	6	13	13	<1	7	<10	0.06	<1	
975317			1.6	73	13	71	29	4	2	<0.2	<5	<5	<5	>10.00	217	<10	196	89	356	<20	<20	8	1.22	0.99	0.07	0.02	0.13	13	7	12	13	<1	7	<10	0.09	<1	
975318			1.2	133	8	229	16	39	16	0.6	<5	31	<5	6.94	472	<10	360	83	221	<20	<20	13	2.57	1.41	0.28	0.04	0.20	38	13	8	35	<1	9	<10	0.14	<1	
975319			1.2	132	10	266	22	41	13	0.8	<5	30	<5	7.93	394	<10	358	82	229	<20	<20	13	2.28	1.14	0.28	0.04	0.19	41	12	8	31	<1	8	<10	0.11	1	
975320			0.3	47	6	99	8	16	6	<0.2	<5	6	<5	3.48	196	<10	121	32	108	<20	<20	9	1.41	0.58	0.21	0.03	0.14	18	5	5	13	<1	<5	<10	0.08	1	
975321			1.3	136	9	256	25	39	11	0.8	<5	23	<5	8.24	359	<10	372	83	235	<20	<20	12	2.35	1.02	0.28	0.04	0.18	44	12	9	28	<1	7	<10	0.10	<1	
975322			0.3	60	14	354	8	58	18	1.1	<5	20	<5	3.61	603	<10	203	49	117	<20	<20	14	2.41	0.76	0.28	0.03	0.13	30	9	6	28	<1	6	<10	0.08	<1	
975323			0.3	49	15	244	6	40	14	1.1	<5	14	<5	2.88	549	<10	163	31	87	<20	<20	12	2.14	0.58	0.36	0.03	0.13	34	8	6	21	<1	<5	<10	0.07	<1	
97F122		36	2.1	183	2	64	112	55	4	0.5	<5	9	<5	7.18	296	<10	9	32	31	<20	<20	6	0.70	1.19	2.78	<.01	<.01	30	13	5	5	<1	<5	<10	<.01	3	
97F124			8	<.2	11	2	22	1	5	<0.2	<5	<5	<5	1.46	145	<10	68	56	64	<20	<20	13	0.56	0.13	0.59	0.27	0.08	53	6	<2	8	<1	<5	<10	0.13	6	
97R036			8	5.3	234	18	4755	10	211	7	37.6	6	42	<5	9.24	221	<10	27	99	39	<20	<20	<1	1.48	0.21	0.92	0.05	0.02	62	8	11	6	<1	<5	<10	0.02	2
97R046			<5	0.6	147	5	110	54	5	2	<0.2	<5	40	<5	>10.00	72	<10	154	131	236	<20	<20	3	0.38	0.13	<.01	<.01	0.13	18	3	18	3	<1	<5	<10	0.03	6
97R119			<5	1.2	114	6	34	4	<1	1	<0.2	<5	<5	<5	>10.00	19	<10	33	50	241	<20	<20	2	0.08	0.04	<.01	0.05	0.35	54	2	22	<1	<1	<5	<10	<.01	<1
97R120			<5	0.7	93	11	893	16	103	8	8.8	<5	<5	<5	2.92	193	<10	82	301	132	<20	<20	8	1.15	0.60	0.22	0.04	0.37	8	6	3	22	<1	<5	<10	0.02	14
97R121			<5	3.2	261	5	196	3	95	4	1.5	<5	19	<5	>10.00	181	<10	23	184	127	22	<20	9	1.34	0.25	1.24	0.04	0.08	103	22	11	8	<1	<5	<10	0.04	4
97R125			6	<.2	17	20	64	<1	25	11	<0.2	<5	1565	289	>10.00	208	<10	1309	44	39	<20	<20	9	1.08	0.04	0.14	<.01	0.08	47	6	11	9	1	6	<10	<.01	2



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STANDARD	ELEMENT	Au30	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr
NAME	UNITS	PPB	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
BCC GEOCHEM STD 6		- 0.3	128	16	120	2	118	31	<0.2	<5	131	<5	6.99	1322	<10	6	168	45	<20	<20	<1	1.83	2.54	3.53	0.01	0.04	74	3	6	19	<1	8	<10	<.01	6	
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	
Mean Value		- 0.3	128	16	120	2	118	31	0.1	3	131	3	6.99	1322	5	6	168	45	10	10	0.5	1.83	2.54	3.53	0.01	0.04	74	3	6	19	0.5	8	5	.005	6	
Standard Deviation		- -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		- 0.2	140	18	140	4	135	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-	24	2	6	1	.003	5	
ANALYTICAL BLANK		<5	<.2	<1	2	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1	
ANALYTICAL BLANK		- <.2	<1	2	<1	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1	
Number of Analyses		1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Mean Value		3	0.1	0.5	2	0.5	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	0.5
Standard Deviation		- +	-	0.1	-	-	-	+	-	+	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		5	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.005	1	1	.01	.01	.01	<.01	<.01	<.01	<.01	<.01	.01	.01	.01	.01	.01	.01	<.01	.01	
Gannet Standard		382	+	-	-	-	+	-	+	-	+	-	+	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Mean Value		382	+	-	+	-	+	+	-	+	-	-	-	-	+	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		394	+	-	-	-	+	-	+	-	+	-	+	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5		- 0.8	97	6	69	1	35	21	<0.2	<5	6	<5	4.95	722	<10	211	51	130	<20	<20	7	3.46	1.75	1.08	0.06	0.33	39	8	9	25	<1	11	<10	0.21	14	
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		
Mean Value		- 0.8	97	6	69	1	35	21	0.1	3	6	3	4.95	722	5	211	51	130	10	10	7	3.46	1.75	1.08	0.06	0.33	39	8	9	25	0.5	11	5	0.21	14	
Standard Deviation		- -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		- 0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18	1	-	9	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION

REPORT: V97-01744.0 (COMPLETE)

DATE RECEIVED: 23-JUL-97

DATE PRINTED: 31-JUL-97

PROJECT: IRON CREEK

PAGE 4 OF 4

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
1000W-250N			<.2	10	8	282	2	16	8	3.9	<5	<5	<5	2.41	294	<10	155	29	59	<20	<20	11	1.26	0.44	0.22	0.01	0.08	17	3	5	12	<1	<5	<10	0.09	3
Duplicate			<.2	10	9	290	2	16	8	4.0	<5	<5	<5	2.44	303	<10	159	29	60	<20	<20	11	1.28	0.45	0.22	0.01	0.08	17	3	5	12	<1	<5	<10	0.08	3
975040		6	0.7	141	11	444	24	64	25	3.3	<5	97	9	6.24	827	<10	612	43	171	<20	<20	10	2.30	1.05	0.47	0.03	0.23	31	14	7	30	<1	9	<10	0.10	1
Duplicate			0.7	145	9	455	24	65	26	3.3	<5	96	8	6.31	858	<10	619	43	178	<20	<20	11	2.34	1.07	0.48	0.03	0.24	31	14	7	31	<1	10	<10	0.10	1
975041		6	0.7	200	10	798	51	117	23	3.4	<5	124	9	6.20	925	<10	906	54	351	<20	<20	13	2.16	0.81	0.35	0.02	0.17	22	19	7	29	<1	9	<10	0.07	<1
Duplicate		<5																																		
97R036		8	5.3	234	18	4755	10	211	7	37.6	6	42	<5	9.24	221	<10	27	99	39	<20	<20	<1	1.48	0.21	0.92	0.05	0.02	62	8	11	6	<1	<5	<10	0.02	2
Duplicate			5.3	234	18	4873	10	211	7	37.8	6	38	<5	9.38	225	<10	23	100	39	<20	<20	<1	1.47	0.21	0.93	0.05	0.02	61	8	11	6	<1	<5	<10	0.02	2



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

REPORT: V97-02109.0 (COMPLETE)

REFERENCE:

CLIENT: TANANA EXPLORATION

SUBMITTED BY: S. TRAYNOR

PROJECT: BIG TOP

DATE RECEIVED: 18-AUG-97 DATE PRINTED: 26-AUG-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
970823	1 Au30 Gold	13	5 PPB	Fire Assay of 30g	30g Fire Assay - AA	R ROCK	13	2 -150	13	TOTAL SAMPLE PREP	13
970823	2 Ag Silver	13	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	REPORT COPIES TO: P.O. BOX 4375					
970823	3 Cu Copper	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	INVOICE TO: P.O. BOX 4375					
970823	4 Pb Lead	13	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	*****					
970823	5 Zn Zinc	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	This report must not be produced except in full. The data presented in this					
970823	6 Mo Molybdenum	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	report is specific to those samples identified under "Sample Number" and is					
970823	7 Ni Nickel	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	applicable only to the samples as received expressed on a dry basis unless					
970823	8 Co Cobalt	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	otherwise indicated					
970823	9 Cd Cadmium	13	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	*****					
970823	10 Bi Bismuth	13	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	11 As Arsenic	13	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	12 Sb Antimony	13	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	13 Fe Iron	13	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	14 Mn Manganese	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	15 Te Tellurium	13	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	16 Ba Barium	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	17 Cr Chromium	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	18 V Vanadium	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	19 Sn Tin	13	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	20 W Tungsten	13	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	21 La Lanthanum	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	22 Al Aluminum	13	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	23 Mg Magnesium	13	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	24 Ca Calcium	13	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	25 Na Sodium	13	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	26 K Potassium	13	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	27 Sr Strontium	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	28 Y Yttrium	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	29 Ga Gallium	13	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	30 Li Lithium	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	31 Nb Niobium	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	32 Sc Scandium	13	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	33 Ta Tantalum	13	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	34 Ti Titanium	13	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970823	35 Zr Zirconium	13	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION
REPORT: V97-02109.0 (COMPLETE)

DATE RECEIVED: 18-AUG-97

DATE PRINTED: 26-AUG-97

PAGE 1 OF 3

PROJECT: BIG TOP

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
97R075		<5	2.5	243	21	662	33	47	3	11.2	<5	73	25	0.89	89	<10	53	269	237	<20	<20	2	0.33	0.04	0.21	0.02	0.07	8	8	<2	1	<1	<5	<10	0.06	2
97R078		<5	1.0	130	5	668	21	61	11	11.0	<5	14	5	2.69	272	<10	47	240	338	<20	<20	3	3.17	0.61	1.83	0.32	0.49	76	11	5	10	<1	7	<10	0.07	3
97R080		<5	0.7	90	3	202	15	34	13	1.8	<5	6	<5	4.53	484	<10	41	168	170	<20	<20	<1	4.50	1.05	2.25	0.31	0.95	113	6	5	19	<1	13	<10	0.12	1
97R239		<5	0.7	88	<2	214	5	33	15	1.9	<5	13	<5	3.95	367	<10	104	119	243	<20	<20	4	1.58	0.86	0.15	0.07	0.70	4	6	<2	12	<1	16	<10	0.16	5
97R240		<5	0.6	48	14	193	15	10	3	1.8	<5	8	<5	4.30	223	<10	327	108	214	<20	<20	3	0.60	0.61	0.08	0.04	0.21	22	7	<2	5	<1	8	<10	0.11	10
97R241		<5	0.4	23	29	116	24	52	4	0.7	<5	31	5	3.75	79	<10	90	329	224	<20	<20	5	0.24	0.21	0.07	0.03	0.04	13	17	<2	2	<1	<5	<10	0.07	6
97R242		8	1.5	33	30	237	10	72	12	3.2	<5	150	7	7.00	127	<10	14	260	409	<20	<20	3	0.97	0.97	0.19	0.08	0.65	17	6	3	6	<1	5	<10	0.09	10
97R243		14	1.4	148	21	1736	77	221	9	21.5	<5	37	8	1.84	71	<10	31	91	187	<20	<20	3	0.60	0.38	0.13	0.01	0.26	4	13	<2	3	<1	<5	<10	0.07	7
97R244		18	2.1	57	42	617	11	92	12	4.7	<5	92	11	4.88	196	<10	18	202	334	<20	<20	2	1.14	1.10	0.41	0.07	0.64	14	9	3	7	<1	6	<10	0.07	10
97R245		6	0.7	70	20	368	36	53	5	7.5	<5	16	<5	0.83	51	<10	277	296	202	<20	<20	3	0.41	0.29	0.27	0.02	0.21	9	8	<2	2	<1	<5	<10	0.05	5
97R246		11	1.2	60	17	1427	4	140	7	14.5	<5	<5	<5	2.07	1810	<10	55	47	86	<20	<20	<1	1.14	1.44	2.09	<.01	0.11	44	15	<2	8	<1	<5	<10	0.03	3
97R247		12	1.6	41	24	625	8	79	12	4.5	<5	56	6	4.34	105	<10	23	111	169	<20	<20	3	0.75	0.46	0.40	0.10	0.19	27	6	<2	4	<1	<5	<10	0.12	6
97R248		13	1.3	39	22	1104	13	128	14	10.2	<5	96	7	5.28	112	<10	15	206	315	<20	<20	2	0.98	0.91	0.24	0.05	0.51	16	6	3	7	<1	<5	<10	0.06	10



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION
REPORT: V97-02109.0 (COMPLETE)

DATE RECEIVED: 18-AUG-97

DATE PRINTED: 26-AUG-97

PAGE 2 OF 3

PROJECT: BIG TOP

STANDARD	ELEMENT	Au30	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr
NAME	UNITS	PPB	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
ANALYTICAL BLANK		<5	<.2	<1	<2	<1	<1	<1	<1	<0.2	<5	<5	<5	<.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1
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		3	0.1	0.5	1	0.5	0.5	0.5	0.5	0.1	3	3	3	.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		5	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.01	.01	.01	<.01	<.01	<.01	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	<.01	.01
Garnet Standard	364	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	394	+	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	+	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		-	0.8	261	29	217	3	36	8	0.9	<5	26	<5	2.55	538	<10	59	72	7	<20	<20	2	0.78	1.08	1.26	0.05	0.15	35	3	<2	6	<1	<5	<10	<.01	10
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	
Mean Value		-	0.8	261	29	217	3	36	8	0.9	3	26	3	2.55	538	5	59	72	7	10	10	2	0.78	1.08	1.26	0.05	0.15	35	3	1	6	0.5	3	5	.005	10
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	0.8	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1	0.01	8



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION

REPORT: V97-02109.0 (COMPLETE)

DATE RECEIVED: 18-AUG-97

DATE PRINTED: 26-AUG-97

PAGE 3 OF 3

PROJECT: BIG TOP

SAMPLE NUMBER	ELEMENT UNITS	Au30	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM
97R245		6 0.7	70	20	368	36	53	5	7.5	<5	16	<5	0.83	51	<10	277	296	202	<20	<20	3	0.41	0.29	0.27	0.02	0.21	9	8	<2	2	<1	<5	<10	0.05	5	
Duplicate		6 0.7	69	19	363	36	53	5	7.5	<5	16	<5	0.82	51	<10	212	299	203	<20	<20	3	0.41	0.29	0.27	0.02	0.21	9	8	<2	2	<1	<5	<10	0.05	5	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

REPORT: V97-02755.0 (COMPLETE)

CLIENT: TANANA EXPLORATION

PROJECT: BIG TOP

REFERENCE:

SUBMITTED BY: S. TRAYNOR

DATE RECEIVED: 09-OCT-97 DATE PRINTED: 28-OCT-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
971016	1 Au30	Gold	14	5 PPB	Fire Assay of 30g	30g Fire Assay - AA					
971016	2 Ag	Silver	14	0.5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	3 Cu	Copper	14	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	4 Pb	Lead	14	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	5 Zn	Zinc	14	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	6 Mo	Molybdenum	14	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	7 Ni	Nickel	14	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	8 Co	Cobalt	14	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	9 Cd	Cadmium	14	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	10 Bi	Bismuth	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	11 As	Arsenic	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	12 Sb	Antimony	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	13 Fe Tot	Total Iron	14	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	14 Mn	Manganese	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	15 Te	Tellurium	14	25 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	16 Ba	Barium	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	17 Cr	Chrome	14	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	18 V	Vanadium	14	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	19 Sn	Tin	14	20 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	20 W	Tungsten	14	20 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	21 Li	Lithium	14	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	22 Ga	Gallium	14	10 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	23 La	Lanthanum	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	24 Sc	Scandium	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	25 Ta	Tantalum	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	26 Ti	Titanium	14	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	27 Al	Aluminum	14	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	28 Mg	Magnesium	14	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	29 Ca	Calcium	14	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	30 Na	Sodium	14	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	31 K	Potassium	14	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	32 Nb	Niobium	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	33 Sr	Strontium	14	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	34 Y	Yttrium	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	35 Zr	Zirconium	14	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
971016	36 Ba	Barium	2	0.01 PCT		ATOMIC ABSORPTION					

R ROCK 14 2 -150 14 TOTAL SAMPLE PREP 14

REPORT COPIES TO: P.O. BOX 4375

INVOICE TO: P.O. BOX 4375

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



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION
REPORT: V97-02755.0 (COMPLETE)

DATE RECEIVED: 09-OCT-97 DATE PRINTED: 28-OCT-97 PAGE 1 OF 3

PROJECT: BIG TOP

SAMPLE NUMBER	ELEMENT UNITS	Al ₂ O ₃ PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Tot PPM	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	Li PPM	Ga PPM	La PPM	Sc PPM	Ta PPM	Ti PCT	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Nb PPM	Sr PPM	Y PPM	Zr PPM	Ba PCT
97R021		12	0.9	123	20	180	8	31	7	1	<5	6	8	2.47	218	<25	>2000	208	207	<20	<20	14	<10	17	11	<5	0.21	5.94	1.06	0.75	2.41	1.67	12	168	9	54		
97R022		14	0.9	130	16	160	21	36	6	6	<5	19	10	1.30	105	<25	>2000	178	567	<20	<20	5	<10	9	26	<5	0.33	6.00	0.26	0.93	2.27	1.19	24	169	12	37		
97R027		13	1.0	59	88	560	5	94	<1	4	<5	100	<5	>10.00	371	<25	72	362	486	<20	<20	4	<10	21	<5	<5	0.05	1.20	1.13	3.08	0.54	0.15	<5	557	51	45		
97R035		<5	<.5	35	20	46	4	32	<1	<1	<5	7	<5	1.77	24	<25	104	439	64	<20	<20	<2	<10	<5	<5	<5	0.02	0.40	0.04	0.27	0.26	0.02	<5	82	9	25		
97R083		16	<.5	79	17	1015	26	80	<1	15	<5	<5	<5	0.99	105	<25	>2000	248	718	<20	<20	7	<10	<5	11	<5	0.15	3.24	0.23	0.45	0.47	1.24	10	104	15	27		
97R084		16	<.5	94	10	670	17	70	4	9	<5	<5	<5	2.21	193	<25	1887	243	478	<20	<20	15	<10	11	15	<5	0.19	4.86	0.57	0.59	0.28	1.64	11	74	19	46		
97R095		8	<.5	23	19	20	22	29	2	<1	<5	22	<5	2.41	21	<25	149	390	30	<20	<20	<2	<10	8	<5	<5	0.06	1.03	0.13	0.02	0.70	0.06	9	82	<5	35		
97R096		8	1.0	35	5	69	13	7	<1	<1	<5	7	<5	1.90	64	<25	>2000	205	545	<20	<20	14	<10	18	8	8	0.17	5.82	0.51	0.07	0.72	2.03	13	72	6	77		
97R254		<5	1.0	37	153	294	104	47	<1	10	<5	36	<5	2.71	65	<25	303	420	281	<20	<20	2	<10	20	<5	<5	0.16	2.54	0.48	0.24	1.60	0.12	12	225	25	55		
97R255		5	<.5	13	18	20	16	6	<1	<1	<5	11	<5	1.63	31	<25	352	290	118	<20	<20	<2	<10	8	<5	<5	0.06	1.04	0.02	0.01	0.60	0.08	5	109	<5	25		
97R257		6	0.9	78	7	235	5	105	11	2	<5	12	<5	3.15	205	<25	1022	222	349	<20	<20	19	<10	16	11	6	0.32	5.28	1.14	0.24	1.44	1.75	24	65	15	56		
97R264		<5	<.5	30	49	1833	58	135	8	25	<5	18	<5	2.69	234	<25	141	258	377	<20	<20	6	<10	11	8	<5	0.19	3.41	0.42	0.20	2.03	0.04	13	215	23	51	0.24	
97R265		<5	<.5	42	26	44	8	47	<1	<1	<5	19	<5	7.23	81	<25	345	377	181	<20	<20	<2	<10	22	5	6	0.13	2.89	0.82	0.36	1.92	0.10	8	300	28	50		
97R267		20	2.9	243	23	672	15	124	8	13	<5	30	<5	5.72	129	<25	312	424	560	<20	<20	9	<10	24	7	6	0.16	3.91	1.01	1.40	0.46	0.92	8	248	44	44	0.45	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION
REPORT: V97-02755.0 (COMPLETE)

DATE RECEIVED: 09-OCT-97 DATE PRINTED: 28-OCT-97 PAGE 2 OF 3

PROJECT: BIG TOP

STANDARD	ELEMENT	Al ₂ O ₃	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	B	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	Ba	
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	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	
ANALYTICAL BLANK		<5	<.5	3	3	<2	<1	<1	<1	<1	<5	<5	<5	<0.01	<5	<25		<5	<2	<2	<20	<20	<2	<10	<5	<5	<5	<.01	<.01	<.01	<.01	0.01	<.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	3	3	1	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	.005	.005	.005	0.01	.005	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	0.005		1	1	.01	.01	.01	.01	.01	.01	.01	<.01	-	<.01	<.01	-	<.01	.01	.01	.01	.01	<.01	
Garnet Standard	2505	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	2505	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	2450	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-	*	-
BCC GEOCHEM STD 5		-	0.9	91	6	75	<1	37	15	<1	<5	17	<5	4.64	837	<25		674	81	154	<20	<20	28	<10	10	17	<5	0.48	7.19	1.82	1.81	1.56	0.98	22	252	12	51	-	
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		-	0.9	91	6	75	0.5	37	15	0.5	3	17	3	4.64	837	13		674	81	154	10	10	28	5	10	17	3	0.48	7.19	1.82	1.81	1.56	0.98	22	252	12	51	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	0.7	90	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	-	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

REPORT: V97-01694.0 (COMPLETE)

REFERENCE:

CLIENT: TANANA EXPLORATION

SUBMITTED BY: S. TRAYNOR

PROJECT: IRON CREEK

DATE RECEIVED: 18-JUL-97 DATE PRINTED: 12-AUG-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	
970723	1 Au30	Gold	7	5 PPB	Fire Assay of 30g	30g Fire Assay - AA	S SOIL	29	1 -80	29	DRY, SIEVE -80	29
970723	2 Ag	Silver	36	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	R ROCK	7	2 -150	7	CRUSH/SPLIT & PULV.	7
970723	3 Cu	Copper	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	REPORT COPIES TO: P.O. BOX 4375			INVOICE TO: P.O. BOX 4375		
970723	4 Pb	Lead	36	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	***** This report must not be produced 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 *****					
970723	5 Zn	Zinc	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	6 Mo	Molybdenum	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	7 Ni	Nickel	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	8 Co	Cobalt	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	9 Cd	Cadmium	36	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	10 Bi	Bismuth	36	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	11 As	Arsenic	36	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	12 Sb	Antimony	36	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	13 Fe	Iron	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	14 Mn	Manganese	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	15 Te	Tellurium	36	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	16 Ba	Barium	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	17 Cr	Chromium	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	18 V	Vanadium	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	19 Sn	Tin	36	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	20 W	Tungsten	36	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	21 La	Lanthanum	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	22 Al	Aluminum	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	23 Mg	Magnesium	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	24 Ca	Calcium	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	25 Na	Sodium	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	26 K	Potassium	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	27 Sr	Strontium	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	28 Y	Yttrium	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	29 Ga	Gallium	36	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	30 Li	Lithium	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	31 Nb	Niobium	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	32 Sc	Scandium	36	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	33 Ta	Tantalum	36	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	34 Ti	Titanium	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
970723	35 Zr	Zirconium	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						



Intertek Testing Services

Bondar Clegg

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REPORT: V97-01694.0 (COMPLETE)

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PAGE 1 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
550W-060N		<.2	85	8	174	3	75	18	1.3	<.5	<.5	<.5		2.50	521	<10	190	35	44	<20	<20	23	1.62	0.51	0.71	0.02	0.08	33	18	3	11	7	<.5	<10	0.07	4
550W-090N		<.2	27	8	126	2	43	13	1.1	<.5	5	<.5		2.67	701	<10	147	28	63	<20	<20	7	3.21	1.92	2.08	0.03	0.08	122	10	<2	22	11	<.5	<10	0.07	4
600W-050N		<.2	51	4	25	2	93	4	2.0	<.5	<.5	<.5		0.59	246	<10	146	10	8	<20	<20	8	0.52	0.13	2.53	0.02	0.03	87	9	<2	1	2	<.5	<10	0.02	3
600W-060N		<.2	31	7	176	<1	31	15	1.3	<.5	<.5	<.5		2.68	200	<10	49	28	67	<20	<20	5	3.56	1.04	0.68	0.15	0.06	64	9	6	14	12	6	<10	0.14	4
600W-090N		<.2	21	7	785	2	66	16	0.7	<.5	<.5	<.5		2.73	488	<10	174	30	58	<20	<20	6	1.86	0.89	0.69	0.02	0.05	36	4	3	25	9	<.5	<10	0.11	3
650W-050N		<.2	26	4	12	2	44	3	0.4	<.5	<.5	<.5		0.54	598	<10	114	5	8	<20	<20	4	0.64	0.08	2.51	0.02	0.02	83	4	<2	<1	2	<.5	<10	0.01	3
650W-060N		<.2	44	6	188	2	38	9	1.8	<.5	<.5	<.5		1.22	692	<10	101	18	26	<20	<20	7	0.74	0.30	0.97	0.01	0.04	40	6	<2	6	4	<.5	<10	0.04	2
650W-070N		<.2	44	5	186	1	44	5	2.3	<.5	<.5	<.5		0.85	258	<10	128	11	18	<20	<20	5	0.67	0.23	1.12	0.02	0.02	53	6	<2	4	3	<.5	<10	0.03	2
650W-090N		0.3	26	10	228	3	31	16	1.0	<.5	13	<.5		4.64	353	<10	111	37	115	<20	<20	6	2.01	0.90	0.20	0.02	0.09	16	3	7	18	15	6	<10	0.16	5
700W-060N		<.2	12	7	88	1	25	11	0.6	<.5	<.5	<.5		2.05	169	<10	113	33	45	<20	<20	6	1.18	0.43	0.29	0.02	0.09	17	2	3	9	7	<.5	<10	0.08	3
700V-100N		<.2	44	6	298	1	47	8	0.8	<.5	6	<.5		3.74	189	<10	130	37	54	<20	<20	8	1.74	0.50	0.22	0.01	0.07	26	3	4	11	8	<.5	<10	0.10	6
750W-060N		0.4	59	7	217	3	50	12	1.7	<.5	<.5	<.5		1.86	470	<10	244	27	40	<20	<20	8	1.12	0.38	1.35	0.01	0.05	60	6	2	10	7	<.5	<10	0.06	3
800W-070N		<.2	18	7	122	2	35	6	2.2	<.5	<.5	<.5		1.40	343	<10	164	18	25	<20	<20	7	0.85	0.40	1.65	0.02	0.05	65	5	<2	6	5	<.5	<10	0.04	3
800W-080N		0.4	28	5	722	5	144	20	16.1	<.5	<.5	<.5		1.19	1012	<10	310	16	20	<20	<20	4	0.83	0.32	2.35	0.03	0.04	97	2	2	4	4	<.5	<10	0.03	3
800W-100N		0.7	77	4	1412	11	372	46	13.5	<.5	<.5	<.5		5.02	1347	<10	488	30	32	<20	<20	9	1.89	0.27	1.40	0.02	0.03	75	13	4	8	5	<.5	<10	0.03	4
975301		<.2	29	12	332	3	52	11	1.8	<.5	12	<.5		4.28	263	<10	146	63	111	<20	<20	9	2.33	1.02	0.13	0.01	0.11	14	3	5	21	15	<.5	<10	0.11	4
975302		<.2	16	10	297	1	52	8	1.8	<.5	<.5	<.5		2.08	142	<10	67	29	65	<20	<20	5	1.27	0.56	0.09	0.02	0.04	10	2	4	7	9	<.5	<10	0.07	3
975303		<.2	20	13	486	1	51	27	13.3	<.5	<.5	<.5		3.12	328	<10	108	45	82	<20	<20	7	1.65	0.69	0.11	0.01	0.06	14	2	6	12	11	<.5	<10	0.11	3
975304		<.2	18	17	429	3	38	21	7.2	<.5	10	<.5		3.20	265	<10	112	57	75	<20	<20	6	1.64	0.66	0.15	0.02	0.07	19	2	5	12	10	<.5	<10	0.09	3
975305		<.2	44	13	684	1	79	22	4.8	<.5	7	<.5		4.20	259	<10	188	51	104	<20	<20	8	4.02	1.43	0.39	0.06	0.11	30	7	8	21	16	8	<10	0.19	5
975306		0.3	62	16	357	9	37	9	2.9	<.5	20	<.5		4.06	200	<10	395	42	133	<20	<20	11	1.83	0.61	0.10	0.03	0.13	74	4	5	17	17	<.5	<10	0.10	4
975307		0.7	56	26	724	19	46	8	7.8	<.5	45	<.5		5.33	201	<10	321	50	224	<20	<20	8	1.84	0.91	0.10	0.03	0.15	79	4	6	14	26	<.5	<10	0.13	7
975308		0.4	41	19	618	13	57	11	3.2	<.5	26	<.5		4.05	208	<10	263	47	226	<20	<20	7	2.02	0.85	0.12	0.03	0.12	45	4	5	16	26	<.5	<10	0.14	6
975309		0.5	38	42	430	23	39	8	2.5	<.5	61	<.5		5.73	182	<10	335	80	346	<20	<20	10	1.88	0.96	0.13	0.06	0.17	101	4	7	18	40	<.5	<10	0.14	8
975310		0.5	94	26	777	9	99	10	0.9	<.5	13	<.5		4.02	159	<10	89	54	112	<20	<20	11	4.50	0.64	0.07	0.01	0.04	17	20	3	15	16	7	<10	0.09	8
975311		0.7	59	24	808	8	92	9	1.7	<.5	13	<.5		4.41	171	<10	83	47	125	<20	<20	8	3.46	0.79	0.13	0.01	0.04	18	12	4	17	17	6	<10	0.11	5
975312		<.2	118	20	881	8	102	9	1.6	<.5	8	<.5		4.14	229	<10	70	50	106	<20	<20	12	4.34	0.97	0.08	0.01	0.05	13	23	3	19	15	10	<10	0.11	6
975313		<.2	83	29	422	7	39	10	1.4	<.5	9	<.5		5.67	374	<10	253	48	162	<20	<20	9	3.07	1.91	0.13	0.02	0.36	17	12	5	23	20	13	<10	0.22	7
975314		0.5	49	72	290	24	39	7	0.9	<.5	34	<.5		5.49	166	<10	284	63	273	<20	<20	14	2.00	0.62	0.09	0.02	0.13	84	5	7	9	32	<.5	<10	0.13	6
97F023	6	<.2	155	<2	1238	6	88	5	2.3	5	13	5	>10.00	99	<10	41	21	51	<20	<20	<1	0.57	0.03	<.01	<.01	0.04	<1	6	23	<1	<1	<.5	<10	<.01	15	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: TANANA EXPLORATION

REPORT: V97-01694.0 (COMPLETE)

DATE RECEIVED: 18-JUL-97

DATE PRINTED: 12-AUG-97

PAGE 2 OF 4

PROJECT: IRON CREEK

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
97P109		<5	0.9	169	11	29	5	28	17	0.6	<5	<5	<5	4.03	120	<10	30	111	37	<20	<20	2	3.35	0.19	2.07	0.19	0.03	87	7	9	1	6	<5	<10	0.07	4
97R018		14	1.6	197	9	7656	37	513	33	82.3	<5	<5	6	6.42	409	<10	27	100	143	<20	<20	<1	0.53	0.14	0.07	0.02	0.18	2	4	4	2	15	<5	<10	<.01	15
97R103		8	1.0	36	5	210	10	11	5	1.4	<5	31	6	>10.00	60	<10	132	90	153	<20	<20	5	0.43	0.14	0.04	0.02	0.11	32	2	11	1	15	<5	<10	0.05	10
97R106		<5	0.7	70	32	52	2	24	4	0.7	<5	16	<5	2.74	32	<10	58	198	67	<20	<20	2	0.17	0.09	<.01	0.02	0.05	4	2	2	<1	7	<5	<10	<.01	5
97R503		6	0.5	64	33	128	9	89	5	1.2	<5	67	7	>10.00	64	<10	16	235	363	<20	<20	14	0.18	0.34	1.77	0.03	0.10	136	61	8	2	38	<5	<10	0.03	19
97R516		<5	0.8	26	32	31	1	4	3	<0.2	<5	<5	<5	3.34	172	<10	98	96	130	<20	<20	3	0.64	0.57	0.20	0.11	0.08	29	4	2	4	15	<5	<10	0.12	6



Geochemical Lab Report

PROJECT: IRON CREEK
DATE RECEIVED: 18-JUL-97 DATE PRINTED: 12-AUG-97 PAGE 4 OF 4

[illegible]

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.

WHITEHORSE 26 JULY 1990
12 FEB. 74
2 MAY 60

22 SEPT 97 LC
10 JUNE 97 L
01 MAY 97 LC
20 JAN 97 L
07 DEC 94 La
15 SEPT 94 L
01 NOV 90

LATITUDE 62° 30' To 62° 40'
LONGITUDE 136° 30' To 137° 00'

CANADA
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
NORTHERN ADMINISTRATION BRANCH
RESOURCES DIVISION

SCALE: 1/2 MILE To 1 INCH

FT. 1500 0 1500 3000 4500 6000 7500 9000 10500 FT.

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

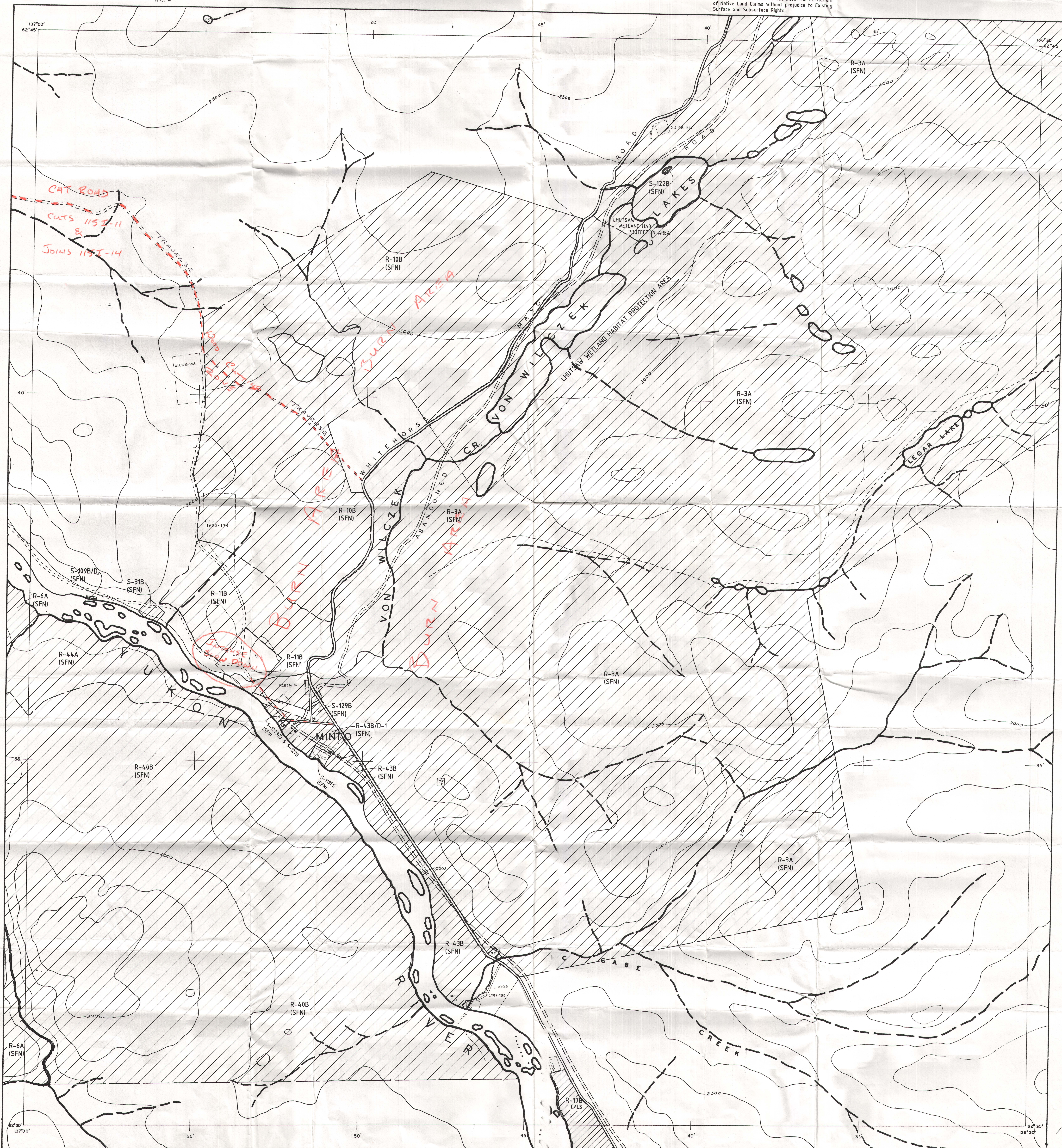
97-024

FIELD MAP FOR

AREA 1

115-1-14	115-1-15	115-1-1
115-1-11	115-1-10	115-1-9
115-1-6	115-1-7	115-1-8

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.



WADE CARRELL
97-024

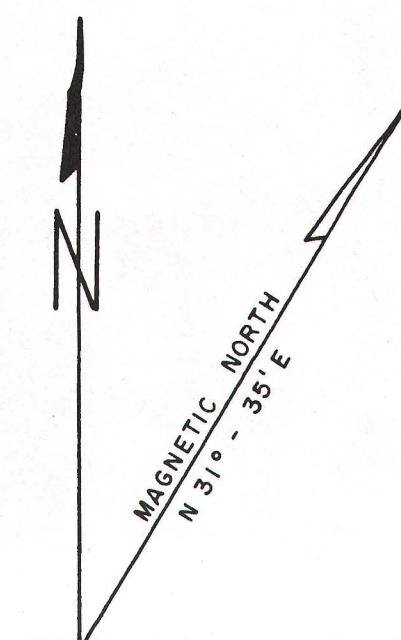
FIELD MAP FOR
AREA 2

SHEET 1151-8

NOTICE

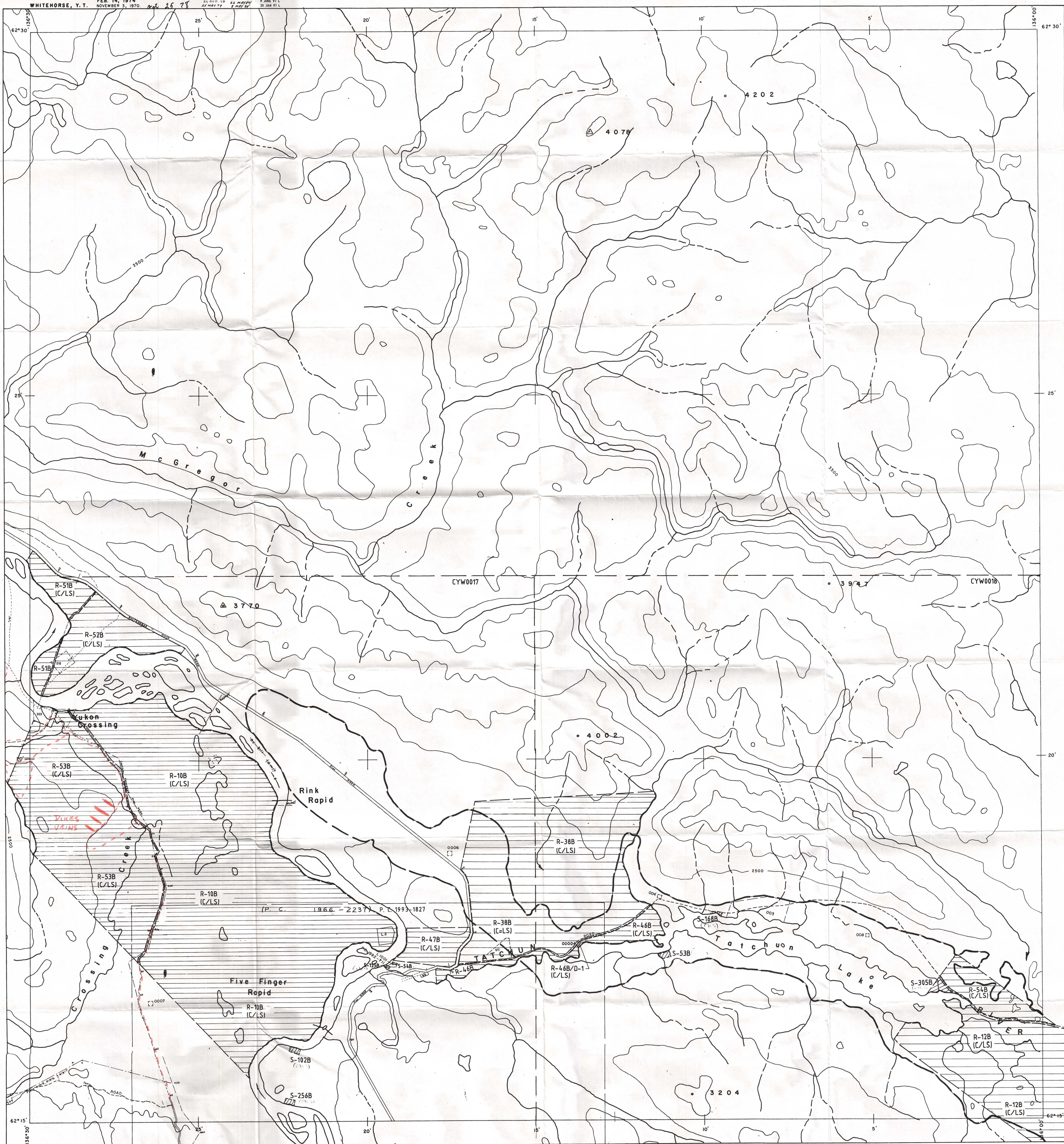
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SCALE 1/2 MILE TO 1 INCH.
FT. 1500 0 1500 3000 4500 6000 7500 9000 10500 FT.



1151-10	1151-9	105L-12
1151-7	1151-8	105L-5
1151-2	1151-1	105L-4

Note: Entry on certain lands is withdrawn from staking
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of Native Land Claims without prejudice to Existing
Surface and Subsurface Rights.



WADE CARRELL
97-024
FIELD MAP FOR
AREA 1

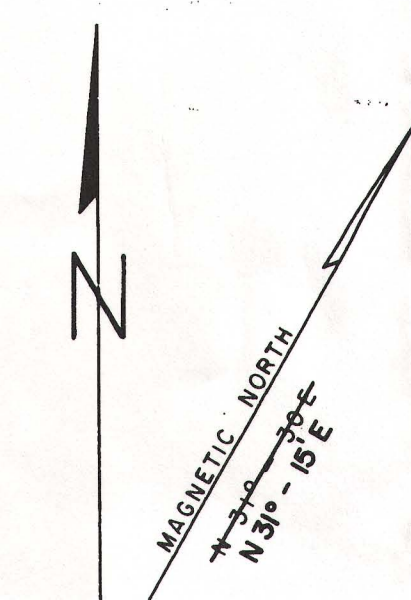
SHEET 1151-14

NOTICE

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SCALE: 1/2 MILE TO 1 INCH

1500 0 1500 3000 4500 6000 7500 9000 10500 FT.



115P-4	115P-3	115P-2
1151-13	1151-14	1151-15
1151-12	1151-11	1151-10

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