

MINFILE: 115J 099
PAGE NO: 1 of 3
UPDATED 24-Oct-04

**YUKON MINFILE
YUKON GEOLOGICAL
SURVEY**

MINFILE # 115J 099
NAME: IDAHO
DEPOSIT TYPE: POLYMETALLIC VEINS AG-PB-ZN+/-AU
STATUS: SHOWING
TECTONIC ELEMENT: DAWSON RANGE BATHOLITH

NTS MAP SHEET: 115J10
LATITUDE 62° 43' 24" N
LONGITUDE: 138° 33' 38" W

OTHER NAME(S):

MAJOR COMMODITIES: GOLD, SILVER

MINOR COMMODITIES: LEAD, ANTIMONY, ZINC

TRACE COMMODITIES: ARSENIC

CLAIMS (PREVIOUS & CURRENT

DAH, FAITH

WORK HISTORY

Staked as Dah cl 1-22 (YA92012) and cl 25-47 (YA92056) in Jun/85 by Freegold Venture (controlled by Chevron Canada Resources Ltd) , which performed mapping and geochemical sampling later in the summer. The group added Dah cl 48-49 (YA92744) in Jul/85 and Dah cl 50F-59F (YA93757), cl 60-66 (YA93767) and cl 68-70 (YA93774) in Oct/85.

Silverquest Resources Ltd optioned the claims in spring 1986, added Dah cl 71-91 (YA94887) in Jun/86 and performed bulldozer trenching throughout the summer. The claims were sold to Rinsey Mines Ltd in March, 1990 and optioned to Eastfield Resources Ltd in Mar/93.

Restaked in Jun/93 as Faith 1-20 cl (YB38082) by J.P. Ross. Between June and Sept/93 Ross carried out soil, silt and rock sampling, trenching and prospecting on the showing. In Jun/94 Ross optioned the property to Island-Arc Resources Corporation but no work was carried out.

In Jun/2001 Ross collected a series of soil, bedrock and float samples from two freshly dug areas located within Silverquest Resources' trench 86-5.

GEOLOGY

The occurrence is located within the Dawson Range of the Yukon-Tanana terrane. The Dawson Range is a northwesterly trending interior mountain belt that extends northwest of Carmacks, to the Alaska border, west-central Yukon. In the occurrence area, the Dawson Range comprises the Wolverine Creek Metamorphic Suite, Dawson Range batholith, Casino Plutonic Suite and Prospector Mountain Plutonic Suite.

The area was mapped regionally at 1:250 000 scale by Tempelman-Kluit in 1974 & 1984 followed by Payne et al. (1987) who re-mapped the 115J /9 and J/10 map sheets at 1:50 000 scale. Johnston (1995) updated Payne's work using recent isotopic determinations, geochemical analyses, geological mapping and data obtained from an Airborne Multiparameter Geophysical Survey flown by the Geological Survey of Canada. Limited field checks were carried out to verify Johnston's findings. Selby et al., (1999) used major and trace element compositions and rare earth element studies to further refine the age and composition of the various geological units underlying the occurrence area.

The occurrence is underlain by metasedimentary and metaigneous rocks assigned by Johnston (1993) to the Devonian to Mississippian Wolverine Creek Metamorphic Suite, part of the Yukon-Tanana terrane. Isotopic

studies of the Dawson Range Batholith and Casino Plutonic Suite by Selby et al. indicate that the Yukon-Tanana terrane lies on top rocks of a Precambrian provenance. The Wolverine Creek Metamorphic Suite is intruded by the mid-Cretaceous Dawson Range batholith. The batholith is characterized by hornblende-biotite-quartz diorite, hornblende-biotite diorite, and biotite-hornblende granodiorite. The Dawson Range batholith is in turn, intruded by a series of small stocks measuring up to 18 km in diameter and assigned to the Casino Plutonic Suite. These stocks are characterized by fine- to medium-grained leucocratic granite, quartz monzonite and alaskite with associated aplite phases. Although field relationships indicates that the Casino Plutonic Suite intrudes the Dawson Range batholith thus leading Johnston to assign a Late Cretaceous age to the suite, recent work by Selby et al., and age dating by Hart (1998) and others has shown that its age is indistinguishable from the batholith. Numerous Late Cretaceous porphyry dykes likely belonging to the Prospector Mountain Plutonic Suite are known to intrude the area.

Exploration work carried out by Freegold Venture and Silverquest Resources identified three types of mineralization on the property. They are:

- (1) Disseminated sulphides in quartz diorite dykes.
- (2) Chalcedony-calcite veins in limonitic quartz-feldspar porphyry (dyke).
- (3) Sulphide-bearing manganiferous quartz veins.

The manganiferous quartz veins were judged the most significant of the three types. They consist of limonite boxwork with minor pyrite, arsenopyrite, galena and sphalerite and occur in altered shear zones cutting mid-Cretaceous granitic rocks. Specimens of vein material assayed up to 15 g/t Au and 1 389 g/t Ag. Soil sampling outlined 4 multielement anomalies within a 1 000 m wide belt trending east-northeast more or less coincident with a major surface linear. Two of the anomalies displayed polymetallic associations of gold, arsenic, silver, lead, zinc and antimony while the remaining two displayed gold and arsenic associations. Follow-up trenching was ineffective as none of the trenches reached bedrock due to heavy permafrost.

Ross's 1993 work program was primarily aimed at confirming results obtained from previous programs. Although Ross did not obtain results as high as previous operators, seven float samples collected from trench 86-2 returned an average of 5.66 g/t gold and 178.7 g/t silver. Ross hoped his 2003 work program would return 1-2 g/t gold over lengths of 10 to 20 metres but his best result was 225 ppb gold over 0.91 metres. The best overall result of the program was from a 25 cm wide reddish-brown gouge zone which returned 808 ppb gold. The trenches were described as very wet and recessive thus the results may have been affected by dilution.

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MINFILE: 115J 099
PAGE NO: 3 of 3
UPDATED 24-Oct-04

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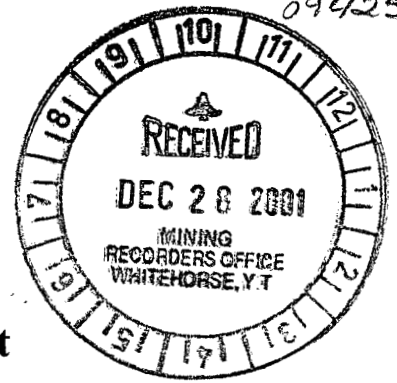
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**Geochemical and Prospecting Report
on the
FAITH 1-14 Claims
Whitehorse Mining District**

by

J. Peter Ross, Prospector

NTS: 115 J/10
Latitude: 62° 44' N
Longitude: 138° 33' W
Dates Worked: June 22-30, 2001

Dated: December 2001

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 4200.00

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

TABLE OF CONTENTS

Chapter One: SUMMARY AND RECOMMENDATIONS	
1.1 Summary	3
1.2 Recommendations	3
Chapter Two: INTRODUCTION	12
2.1 Introduction	12
2.2 Location and Access	12
2.3 History	12
Chapter Three: PROPERTY DESCRIPTION	13
Chapter Four: GEOCHEMICAL SURVEY AND PROSPECTING	
4.1 Soil Sample Geochemistry.....	14
4.2 Float (loose bedrock) Sample Geochemistry	14
4.3 Bedrock Sample Geochemistry	14
4.4 Interpretation	14
4.5 Prospecting	15

LIST OF FIGURES

Figure 1: Location Map	4
Figure 2: Claim Location Map	5
Figure 3: Claims and Geology	6
Figure 3a: Geological Legend	7
Figure 4: Soil Samples, 1986 Trenches.....	8
Figure 5: Float and Bedrock Samples, 1986 Trenches	9
Figure 6: Bedrock Trenches (2001), 1986 Trenches	10
Figure 7: FAITH Claims, 1986 Trenches, 1985 Anomalies	11

APPENDICES

Appendix 1: References	
Appendix 2: Statement of Costs	
Appendix 3: Statement of Qualifications	
Appendix 4: Soil Sample Geochemistry - Assay Results	
Appendix 5: Float (loose bedrock) - Assay Results	
Appendix 6: Float (loose bedrock) Sample Descriptions	
Appendix 7: Bedrock Sample Geochemistry - Assay Results	
Appendix 8: Bedrock Sample Descriptions	

Chapter One: SUMMARY AND RECOMMENDATIONS

1.1 Summary

The FAITH 1-14 and 15-20 claims were staked and recorded in 1993 by J. Peter Ross of Whitehorse, Yukon. The FAITH 15-20 claims have lapsed.

1. There is exploration activity in the area now. Alexis Resources is exploring for porphyry gold systems 18 km to the west. Prospector International has done soil geochemistry on the EO claims 5 km to the south of the FAITH claims.
2. The FAITH claims are in the Dawson Range known for placer gold, Au Ag vein deposits and Cu Mo Au porphyry deposits.
3. Locally placer gold workings exist on Idaho and Issac Creek which drain the FAITH claims. To the west (14.5 km) is the Casino Cu Mo Au porphyry, uneconomic now at 615 million tons Cu 0.255%, Mo 0.025%, Au 0.009 oz/ton.
4. In the past soil geochemistry produced 4 large anomalous areas (A, B, C, D) which were never adequately explored. The "A" anomaly suggests a buried porphyry Cu Mo Au target (personal communication Doug Eaton Archer Cathro) which may have associated mineral deposits around or above it.
5. In 1986 Silverquest Resources dug 7 bulldozer trenches on anomalies. Bedrock was exposed in 4 small areas. Since then (14 years) the trenches have thawed down to bedrock.
6. My work in 1993 in trench 86-1 produced a zone of 9.17 feet Au 0.110 oz/ton and Ag 0.63 oz/ton. Seven float samples averaged Au 0.181 oz/ton, Ag 5.714 oz/ton, Pb 0.49%, Zn 0.25%, As 0.32%, Sb 0.25%, Mn 7.7%.
7. In 1994 Island Arc optioned the property but did no work.
8. In 2001 J. Peter Ross prospected , dug up and exposed 2 areas on trench 86-5.
9. Seven soil samples, 26 bedrock samples and 62 float/loose bedrock samples were taken and tested. The results were very poor.

Dates worked were June 22-10 (up to claim expiry date and July 1-10 (after claim expiry date).

1.2 Recommendations

Three years of work were filed. The poor results and expensive access costs make the FAITH claims a very low priority in the future.

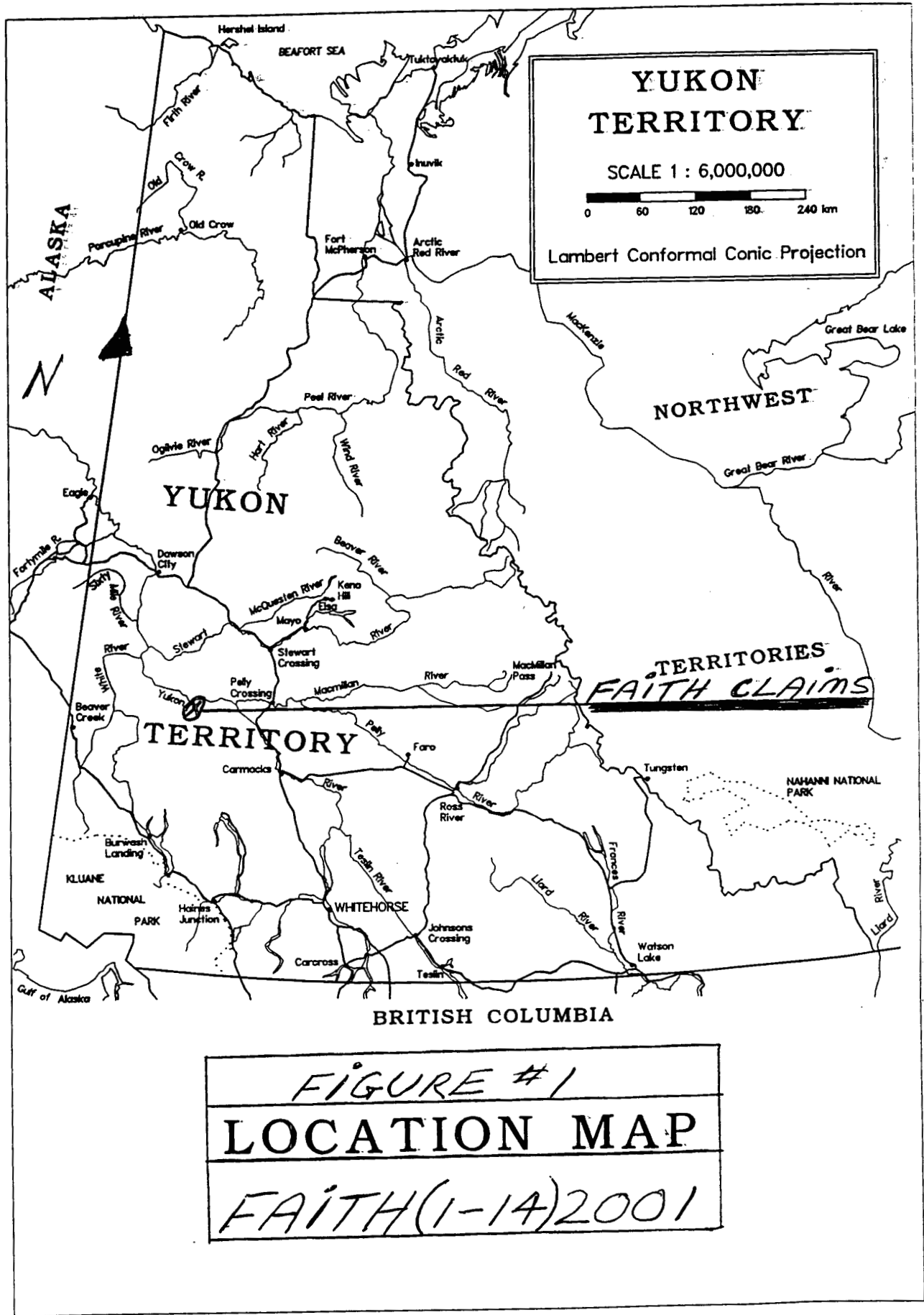


FIGURE 6.

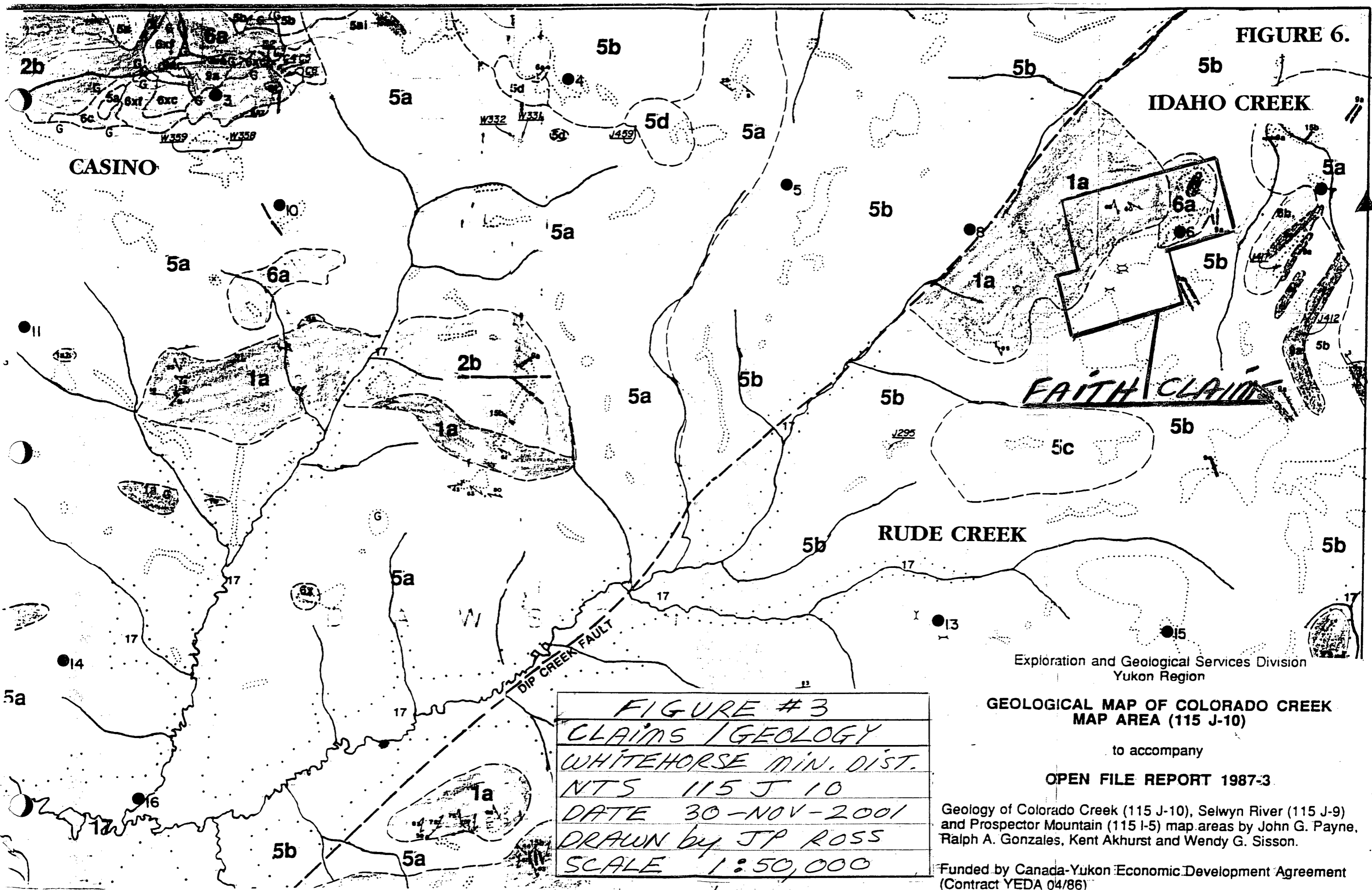


FIGURE #3
 CLAIMS / GEOLOGY
 WHITEHORSE MIN. DIST.
 NTS 115 J 10
 DATE 30-NOV-2001
 DRAWN by JP ROSS
 SCALE 1:50,000

Exploration and Geological Services Division
 Yukon Region

**GEOLOGICAL MAP OF COLORADO CREEK
 MAP AREA (115 J-10)**

to accompany

OPEN FILE REPORT 1987-3

Geology of Colorado Creek (115 J-10), Selwyn River (115 J-9)
 and Prospector Mountain (115 I-5) map areas by John G. Payne,
 Ralph A. Gonzales, Kent Akhurst and Wendy G. Sisson.

Funded by Canada-Yukon Economic Development Agreement
 (Contract YEDA 04/86)

**GEOLOGICAL MAP OF COLORADO CREEK
MAP AREA (115 J-10)**

to accompany

OPEN FILE REPORT 1987-3

QUATERNARY

17 Alluvium; 17s. landslide; 17g. glacial deposit.

LATE CRETACEOUS TO EARLY TERTIARY

PROSPECTOR MOUNTAIN SUITE

16 16a. quartz-bearing monzonite; 16af. fine grained variety; 16b. quartz-monzonite; 16c. latite. quartz-bearing latite dyke.

CARMACKS SUITE

15 LATE DYKES, INTRUSIONS. 15a. aphanitic andesite, basalt dyke; 15b. very fine to fine grained andesite, latite dyke; 15c. potassic gabbro, monzo-gabbro; 15d. diabase.

14 UPPER VOLCANIC SECTION. 14a. andesite flow; 14b. basalt flow; 14bv. upper, vesicular part of 14b; 14x. breccia, debris flow with fragments of basement rock

13 LOWER VOLCANIC SECTION. 13a. andesite flow; 13as. andesitic tuffaceous sediments, shale; 13at. andesitic tuff; 13ax. andesitic flow breccia; 13b. basalt, basaltic andesite flow; 13x. breccia, debris flow with fragments of basement rock.

12 BASAL VOLCANIC SECTION rhyodacite tuff.

EARLY CRETACEOUS

11 COLORADO CREEK BRECCIA. landslide talus breccia.

10 CARIBOU CREEK CONGLOMERATE. conglomerate, sandstone.

MOUNT NANSEN SUITE

9 LATE DYKES, INTRUSIONS. 9a. latite, plagioclase, hornblende phenocrysts; 9b. quartz-bearing latite-dacite, plagioclase, quartz, hornblende, biotite phenocrysts; 9c. leucocratic rhyodacite, quartz-bearing latite, plagioclase, quartz, k-feldspar phenocrysts; 9d. quartz-bearing monzonite (Mount Cockfield Stock, associated dykes)

8 BOW CREEK GRANITE. (only east of project area)

7 VOLCANIC ROCKS. 7a. andesite, latite flow; 7at. tuff; 7ax. flow breccia; 7b. latite, rhyodacite flow; 7bt. tuff; 7c. latite, rhyodacite dome, plug; 7d. andesite, basaltic andesite flow (Mount Cockfield), tuff, felsic tuff

DAWSON RANGE SUITE

6 CASINO INTRUSIONS: 6a. fine grained quartz-monzonite; 6b. medium grained, leucocratic quartz-monzonite; 6c. porphyritic, leucocratic quartz-monzonite (Casino); 6d. aplitic quartz-monzonite; 6e. breccia pipe (Casino); 6xc. coarse breccia; 6xf. fine breccia.

5 DAWSON RANGE BATHOLITH: 5a. hornblende-biotite potassic quartz-diorite; 5b. biotite-hornblende granodiorite; 5c. biotite rich, leucocratic quartz-monzonite, granodiorite; 5d. hornblende-biotite diorite.

JURASSIC (?)

4 BIG CREEK SUITE: 4a. hornblende monzonite, quartz-bearing monzonite, common k-feldspar phenocrysts; 4b. hornblende monzonite to diorite; 4c. hornblende.

TRIASSIC (?)

3 KLOTASSIN SUITE. 3a. hornblende-biotite granodiorite to diorite; 3b. leucocratic granodiorite 3bd. strong cataclastic deformation.

PROTEROZOIC - PALEOZOIC

YUKON METAMORPHIC COMPLEX

2 QUARTZ-FELDSPATHIC GNEISS/SCHIST UNIT: 2a. meta-latite to meta-dacite flow, welded tuff, coarse texture; 2b. meta-latite to meta-dacite flow, tuff, medium to fine texture; 2c. latitic, dacitic, andesitic metasedimentary and meta-tuffaceous rocks, finely layered; 2d. meta-andesite tuff, flow; 2e. amphibolite (meta-basalt), banded amphibolite/felsic gneiss; 2f. orthogneiss, biotite-hornblende quartz-diorite to quartz-monzonite; 2L. recrystallized limestone, interlayered with rocks of Unit 2; 2g. gneiss, derived from Unit 2, parentage uncertain; 2m. migmatite, mixture of 2g and plutonic rocks; 2s. skarn, calcisilicate rock derived from Unit 2.

1 METASEDIMENTARY UNIT. 1a. quartzite, micaceous quartzite; 1b. quartz-mica schist, after impure quartzite, siltstone; 1c. meta-greywacke; 1d. argillite, slate; 1e. metamorphosed pebble conglomerate; 1f. meta-andesite, tuff, tuffaceous sediments; 1L. recrystallized limestone, interlayered with rocks of Unit 1; 1g. gneiss derived from unit 1, parentage uncertain; 1m. migmatite, mixture of 1g and plutonic rocks; 1s. skarn, calcisilicate rock, derived from Unit 1.

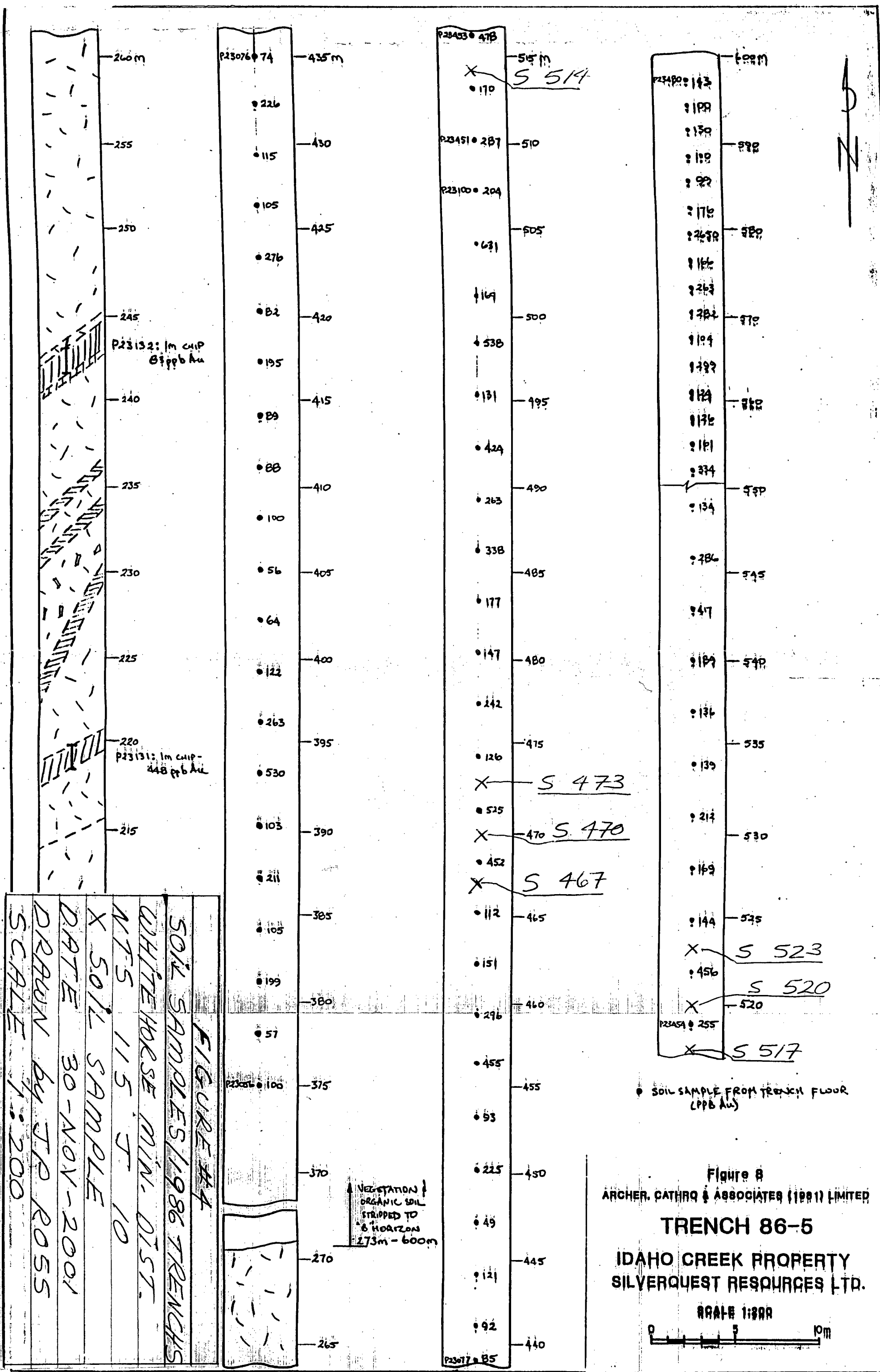


FIGURE #4
 SOIL SAMPLES/1986 TRENCHES
 WHITE HORSE MIN. DIST.
 NT'S 115 J 10
 X SOIL SAMPLE
 DATE 30-NOV-2001
 DRUN BY J.P. ROSS
 SCALE 1:200

VEGETATION &
 ORGANIC SOIL
 STRIPPED TO
 B HORIZON
 273m - 600m

Figure 8
 ARCHER, CATHRO & ASSOCIATES (1991) LIMITED
TRENCH 86-5
 IDAHO CREEK PROPERTY
 SILVERQUEST RESOURCES LTD.



• SOIL SAMPLE FROM TRENCH FLOOR
 (PPB Au)

FIGURE #5
 FLOAT/BEDROCK SAMPLES
 11986 TRENCHES
 WHITEHORSE MIN. DIST.
 NTS 115 J 10
 X FLOAT SAMPLE
 BEDROCK SAMPLE
 DATE 30-NOV-2001
 DRAWN BY JTD ROSS
 SCALE 1:200

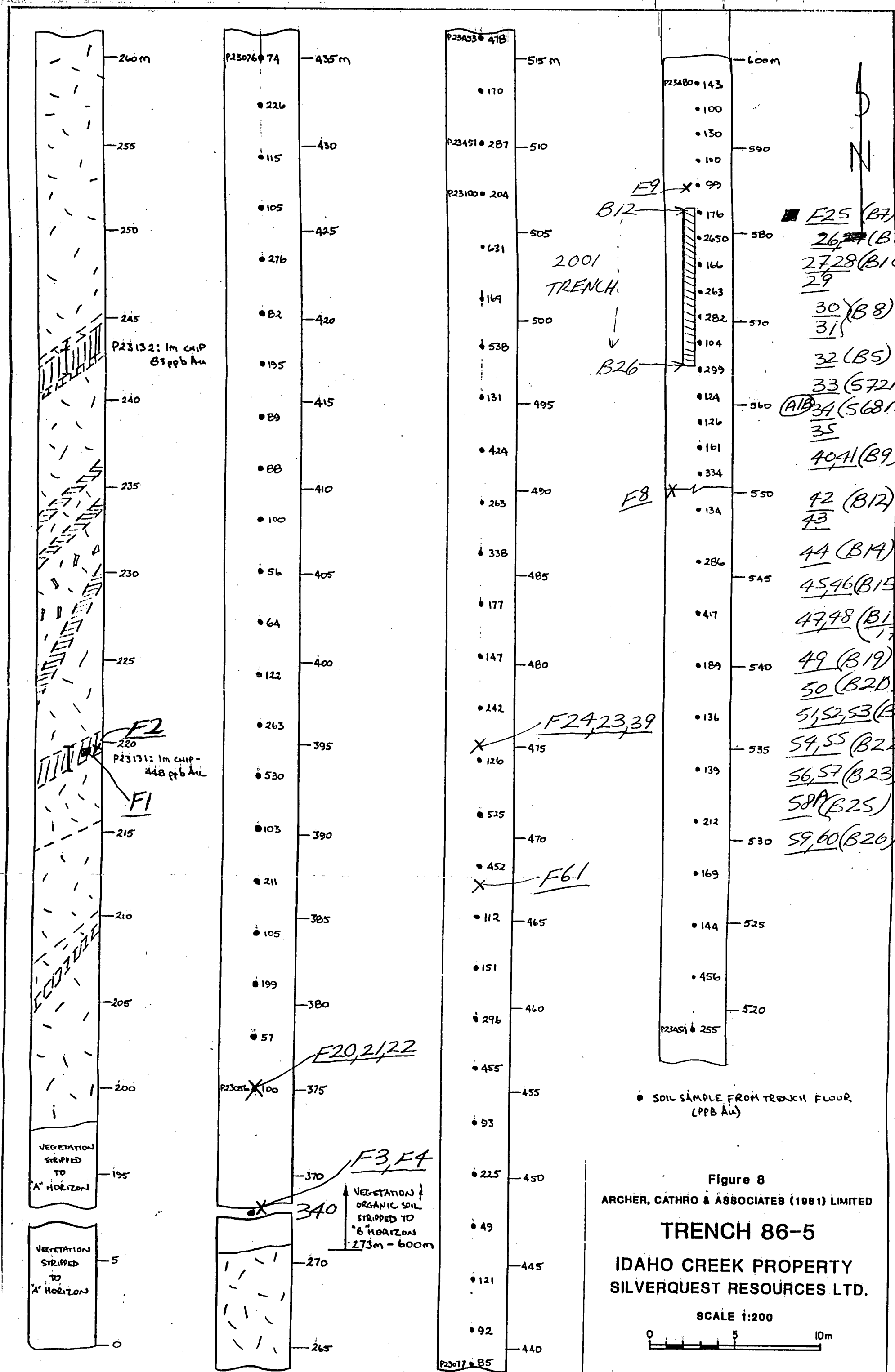
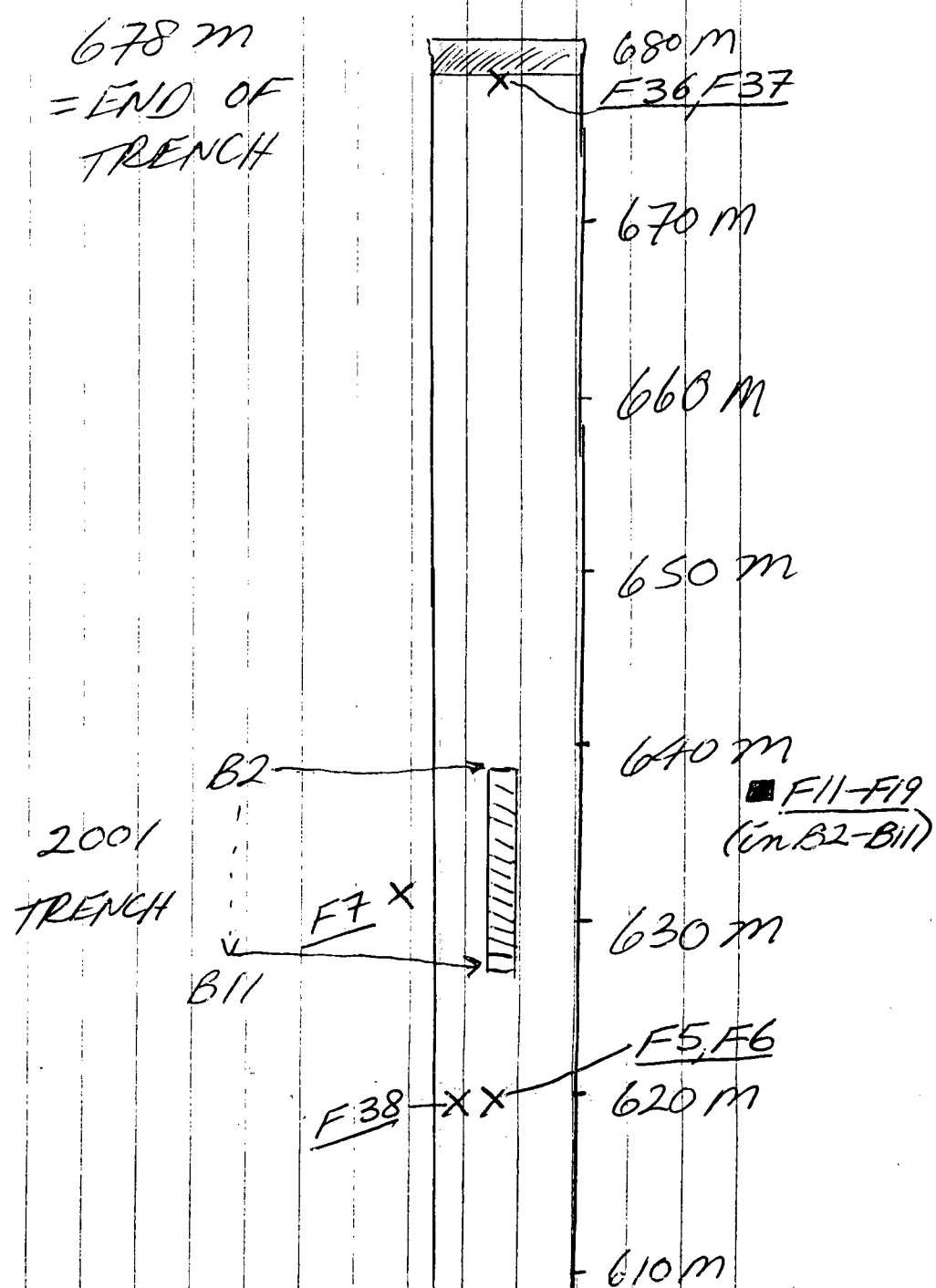
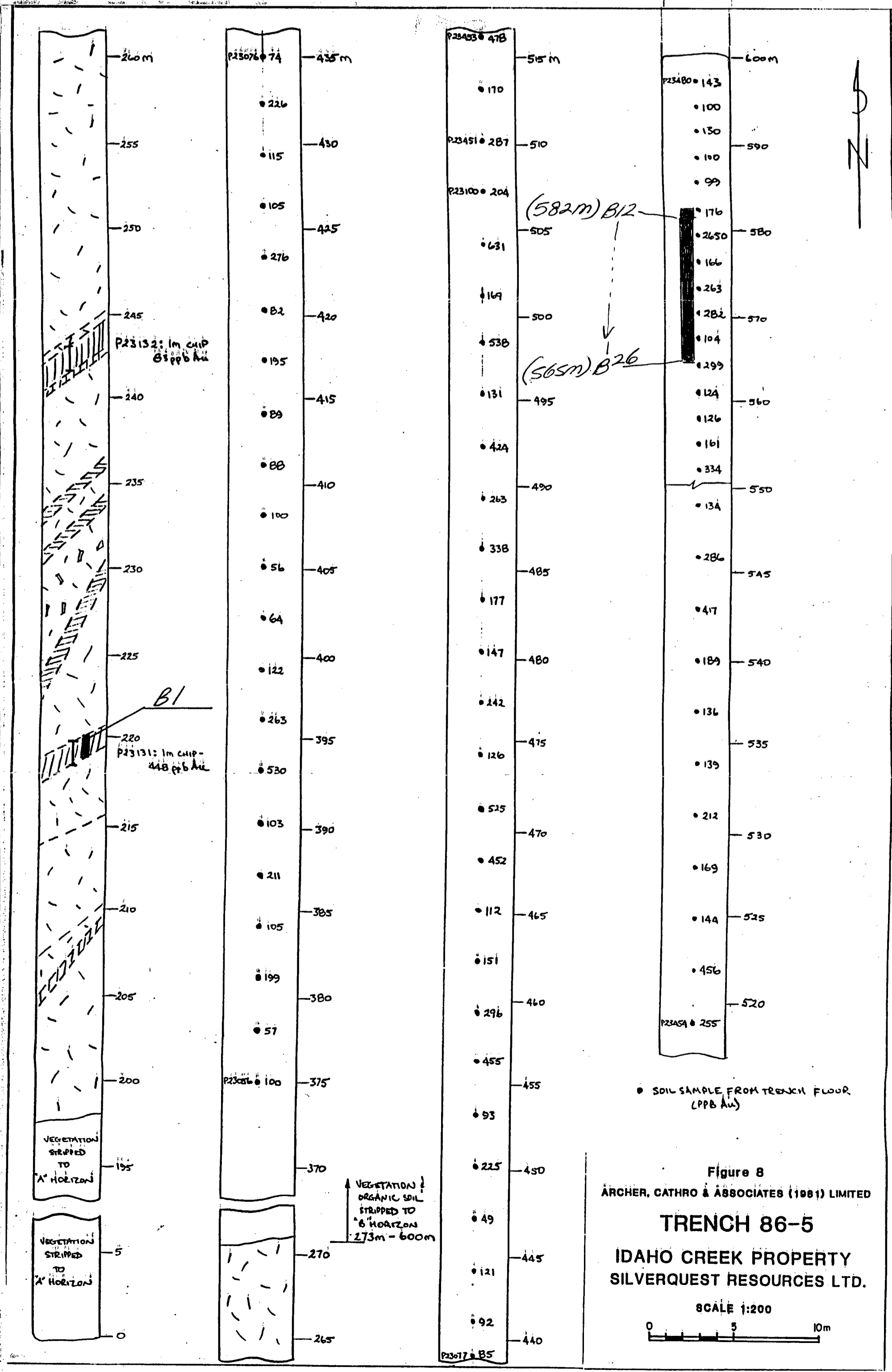
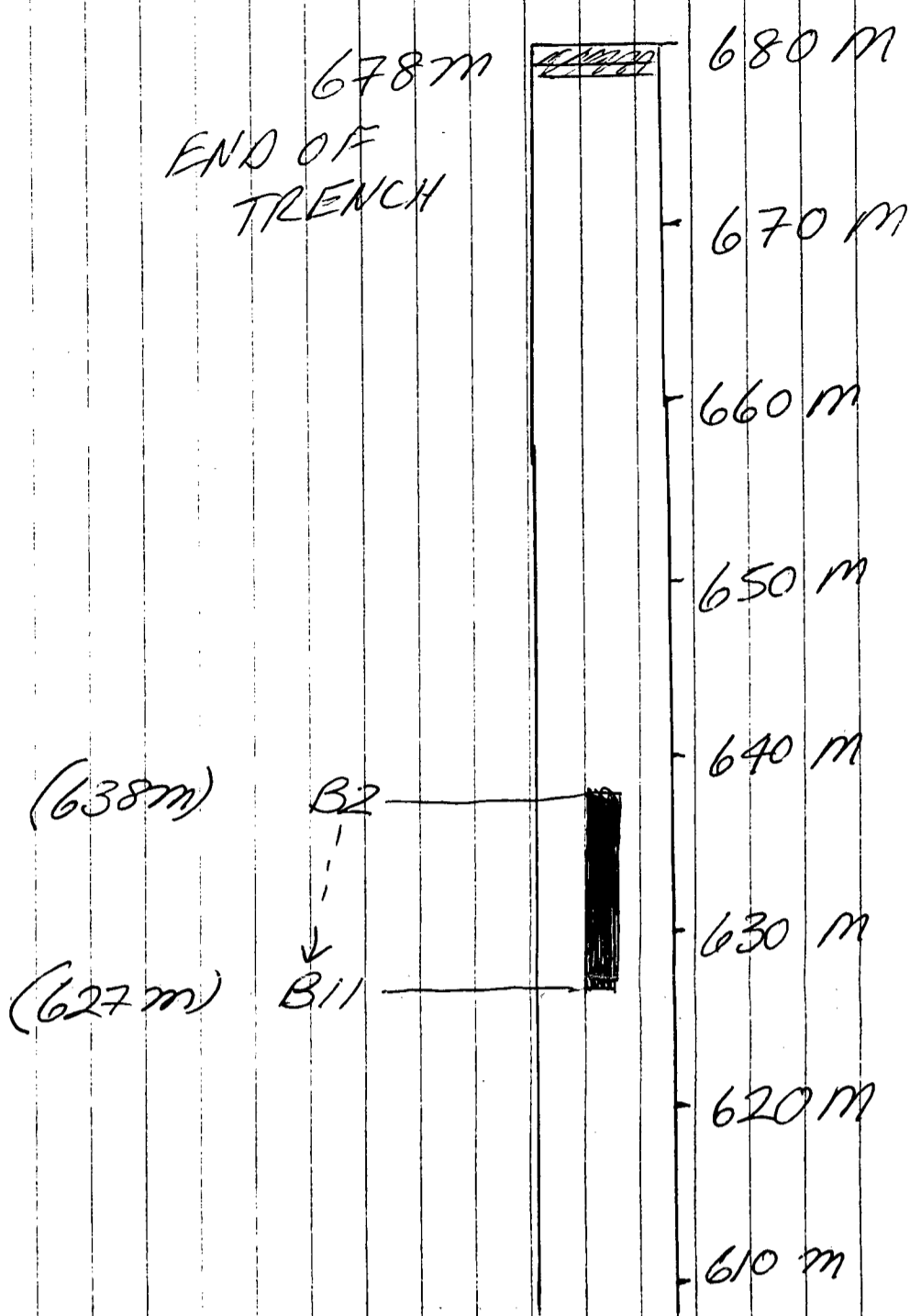


FIGURE #6
 BEDROCK TRENCHS (2001)
 1986 TRENCHS
 WHITEHORSE MIN. DIST.
 NTS 115 J 10
 2001 BEDROCK TRENCH
 DATE 30-NOV-2001
 DRAWN BY J.P. ROSS
 SCALE 1:200



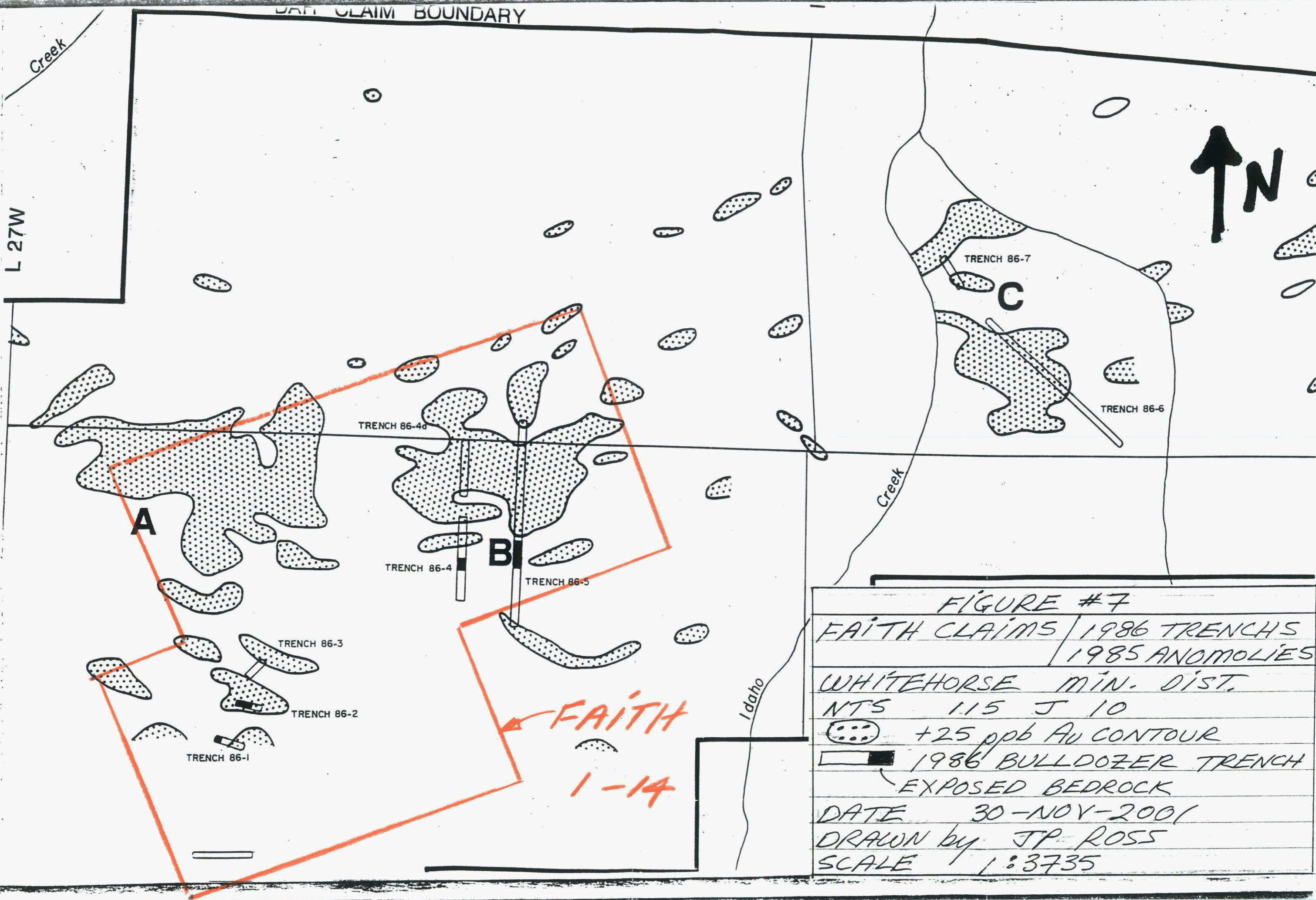


FIGURE #7
 FAITH CLAIMS / 1986 TRENCHES
 1985 ANOMOLIES
 WHITEHORSE MIN. DIST.
 NTS 115 J 10
 (stippled circle) +25 ppb Au CONTOUR
 (rectangle with black outline) 1986 BULLDOZER TRENCH
 EXPOSED BEDROCK
 DATE 30-NOV-2001
 DRAWN by JP ROSS
 SCALE 1:3735

Chapter Two: INTRODUCTION

2.1 Introductory Statement

J. Peter Ross measured the 86-5 trench by hip chain to locate the anomalous soil zones (gold).

Ross took 7 soil samples, 26 bedrock samples and 62 float/loose bedrock samples. The samples were tested for Au (30g) fire assay and 30 element ICP.

2.2 Location and Access

The FAITH 1-14 claims are located 140 km northwest of Carmacks in the Whitehorse Mining District, NTS 115 J/10, latitude 62° 44' N, longitude 138° 33' W. Access to the claims was by helicopter. An airstrip is present at Casino and a winter road passes within a few km of the claims. A rough mining (seasonal) road comes to within 50 km of the property.

2.3 History

Geology in the claims area is;

6 Early Cretaceous, Casino Intrusions. (6a) fine grained quartz monzonite

5 Early Cretaceous, Dawson Range Batholith. (5a) biotite hornblende granodiorite

1 Proterozoic - Paleozoic, Yukon Metamorphic Complex. Meta-sedimentary Unit (1a) quartzite, micaceous quartzite.

Chapter Three: PROPERTY DESCRIPTION

Claim Name	Grant No.	Grouping	Date Recorded	Expiry Date
FAITH 1	YB38082	HA02458	93.06.30	2004.06.30
FAITH 2	YB38083	HA02458	93.06.30	2004.06.30
FAITH 3	YB38084	HA02458	93.06.30	2004.06.30
FAITH 4	YB38085	HA02458	93.06.30	2004.06.30
FAITH 5	YB38086	HA02458	93.06.30	2004.06.30
FAITH 6	YB38087	HA02458	93.06.30	2004.06.30
FAITH 7	YB38088	HA02458	93.06.30	2004.06.30
FAITH 8	YB38089	HA02458	93.06.30	2004.06.30
FAITH 9	YB38090	HA02458	93.06.30	2004.06.30
FAITH 10	YB38091	HA02458	93.06.30	2004.06.30
FAITH 11	YB38092	HA02458	93.06.30	2004.06.30
FAITH 12	YB38093	HA02458	93.06.30	2004.06.30
FAITH 13	YB38094	HA02458	93.06.30	2004.06.30
FAITH 14	YB38095	HA02458	93.06.30	2004.06.30

Chapter Four: GEOCHEMICAL SURVEY and PROSPECTING

J. Peter Ross used a hip chain to measure and mark areas from the 1986 trench work. Trench 86-5 was chosen. Wooden lath were seen from the past positioned at 3m intervals. J. Peter Ross placed lath (with aluminum tags) at 10m intervals on the side of the trench from 450m to the end of the trench (678m).

4.1 Soil Sample Geochemistry

Seven (7) soil samples were taken from about 18-20" deep in wet mud. The sample location was marked with flagging tape. Samples were tested for Au (30g) fire assay and 30 element ICP.

4.2 Float (loose bedrock) Sample Geochemistry

Sixty-two (62) soil samples were taken. The sample location was marked with flagging tape. Samples were tested for Au (30g) fire assay and 30 element ICP.

4.3 Bedrock Sample Geochemistry

Twenty-six (26) soil samples were taken. The sample location was marked with paint on rocks. Samples were tested for Au (30g) fire assay and 30 element ICP.

4.4 Interpretation

The soil samples were taken in 2 areas to test 2 areas of high Au in soil results from 1986. Past results from 1986 were Au 452 ppb at 468m and Au 525 ppb at 472m. Results in 2001 at 20" deep were 467m Au 385 ppb, 470m Au 716 ppb and 473m Au 423 ppb.

This area was very wet and recessive and was not adequately tested. It should be dug up and sampled.

Another area from 1986. Au 456 ppb at 552m, Au 255 ppb at 519m and Au 478 ppb at 516m. results in 2001 from 17-18" deep were 523m Au 381 ppb, 520m Au 131ppb, 517 Au 130 ppb, 514m Au 385 ppb.

This area was very wet and recessive.

3.4 Interpretation (continued)

Both areas were basically confirmed by 2001 work and suggest that gold may be present on bedrock.

The best float sample (F50) was 808 ppb Au. Many float were taken to see where the Au was in the system. Many were cut for study.

Two trenches were dug up and sampled.

The first trench was dug from 627m to about 638 (11.34m total). It was on a dead spot in the anomaly (no soil samples were taken here in 1986). Perhaps the samples were mixed I thought. A 3m yellow green gouge zone was seen (As Py stain?) and bedrock? Pieces of fractured rock were seen. The samples taken were B2-B11.

Sample B1 was taken to corroborate a sample from 1986 that ran 448 ppb Au over 1 metre. B1 ran 191 ppb Au.

The second trench was 16m long. It went from 565m to 582m. At 579m was a 1986 high gold value (2,650 ppb. The best result was B20, 225 ppb Au.

The results were very disappointing. I was hoping to get some 10-20 metres of 1-2g Au/ton.

4.5 Prospecting

The area may still have potential. My poor results plus the expensive helicopter access makes the area a very, very low priority.

Appendix 1

References

YEG p.14, 15. 2000.

Geophysical paper/map, 4268G, Crag Mountain, 115 N/15.

Yukon Minfile 115J099 IDAHO, 115J022 RUDE CREEK, 115J036 ZAPPA, 115J020 HAXE

Geological and Geochemical Report on the Idaho Creek Property. Doug Eaton 1985. Assessment report 091821.

Bulldozer Trenching Program Idaho Creek Property Yukon. Rob Carne 1986. EIP registration # EIP 86-021.

Report on the Idaho Creek Property for Rinsey Mines by J. Franzen 1989.

Prospecting and Geology Report on the FAITH 1-20 Claims. Barry Price 1994.

Personal Communication

Doug Eaton, Archer Cathro Whitehorse, YT.

John Kowalchuck, Vancouver, BC.

Figure 16. Craig Hart (left) of the Yukon Geology Program examining core with geologists from Alexis Resources on the Canadian Creek property.



than expected dip. This limits tonnage potential of the zone. The best hole in the replacement zone returned 39.9 g/t Ag, 0.73% Zn and 0.48% Pb over 9.88 m. On the Blue Heaven property, a single hole into a replacement zone adjacent to a high-grade vein fault revealed that the replacement style mineralization did not extend into the adjacent carbonate rocks. The hole returned 6.0 g/t Ag, 2.67% Zn and 0.10% Pb over 3.11 m.

Alexis Resources conducted a diamond-drilling program on the **Canadian Creek** (Yukon MINFILE, 1997, 115J 101) property optioned from Wildrose Resources. The Canadian Creek property is adjacent to the Casino deposit (531 Mt grading 0.26% Cu, 0.025% MoS₂ and 0.25 g/t Au) located in the Dawson Range approximately 150 km south of Dawson. Porphyry copper-gold-molybdenum and porphyry gold mineralization were targeted with a 12-hole reconnaissance style drill program (Fig. 16) on the large property. Hole CC-2000-01 was drilled on claims optioned from Great Basin Gold where drilling in 1994 in hole 94-319 returned 0.73 g/t Au over 44 m. Hole CC-2000-01 confirmed the previous result returning 50.5 m grading 0.71 g/t Au including 25.7 m of 1.04 g/t Au. The Creek zone, 7.5 km west of the Casino deposit, is a large geophysical target defined by a 2.4- by 2.0-km induced-polarization chargeability anomaly on the edge of a magnetic-high anomaly. Trenching in the Creek zone has exposed sub-crop of quartz-sericite-altered quartz, diorite to monzonite from which composite sampling returned values of 0.72, 0.80 and 0.94 g/t Au. Drilling in and around the Creek zone returned values up to 11.7 m of 0.29% Cu in hole CC-2000-06, 3.0 m of 0.97 g/t Au, 0.12% Cu in CC-2000-11 and 3.0 m of 0.36 g/t Au, 0.20% Cu in hole CC-2000-12. A biotite-altered intrusive float boulder mineralized with malachite-chalcopyrite stockwork was discovered during the program, and contained 3.25% Cu with minor gold and molybdenum.

Prospector International conducted grid and reconnaissance soil sampling, prospecting and mapping on the **Coffee Creek** (Yukon MINFILE, 1997, 115J 050) and **Rude Creek** (Yukon MINFILE, 1997, 115J 022) properties located near the

Canadian Creek property in the Dawson Range of central Yukon. Grid soil sampling on the Coffee Creek property defined a 400- by 900-m, greater than 40-ppb-gold anomaly (up to 694 ppb Au) with elevated arsenic, antimony and mercury. The anomaly is underlain by quartz-mica schist near the northern contact of a mid-Cretaceous granitic intrusive. On the Rude Creek property a 150- by 550-m, greater than 38 ppb gold-in-soil anomaly (up to 1250 ppb Au) was defined. The anomaly has associated anomalous bismuth, silver and arsenic.

In the Whitehorse area, Klauene Drilling and partner Rob Hamel contracted Amerok Geosciences to conduct an induced polarization (IP) survey of the HAT claims (Yukon MINFILE, 1997, 105D 053) in the Whitehorse Copper Belt. The survey was conducted to expand an induced polarization (IP) chargeability anomaly identified from a survey conducted by Hudson Bay Mining and Smelting Co. Ltd. in the 1980s. Trenching in 1998 and 1999 on the claims exposed potassically altered granodiorite, which assayed up to 1.05% Cu, 180 ppb Au, 8.7 g/t Ag and 0.061% MoS₂. Two diamond drill holes were drilled in 2000 to test for porphyry-style mineralization at the margin of the IP anomaly. The holes intersected mainly sedimentary rocks and dykes or sills of granodiorite. The first hole intersected a section of high-grade, garnet-diopside-wollastinite skarn, mineralized with bornite and chalcopyrite, which assayed 4.99% Cu, 1.05 g/t Au and 40.3 g/t Ag over 10.55 m (Fig. 17). The drilling illustrates the potential for further discoveries of high-grade copper-gold skarn mineralization in the Whitehorse Copper Belt, which has produced over 10 million tonnes of ore with an average grade of 1.5% Cu, 0.55 g/t Au and 8.1 g/t Ag. The IP anomaly and porphyry potential on the HAT claims also remains to be fully tested.

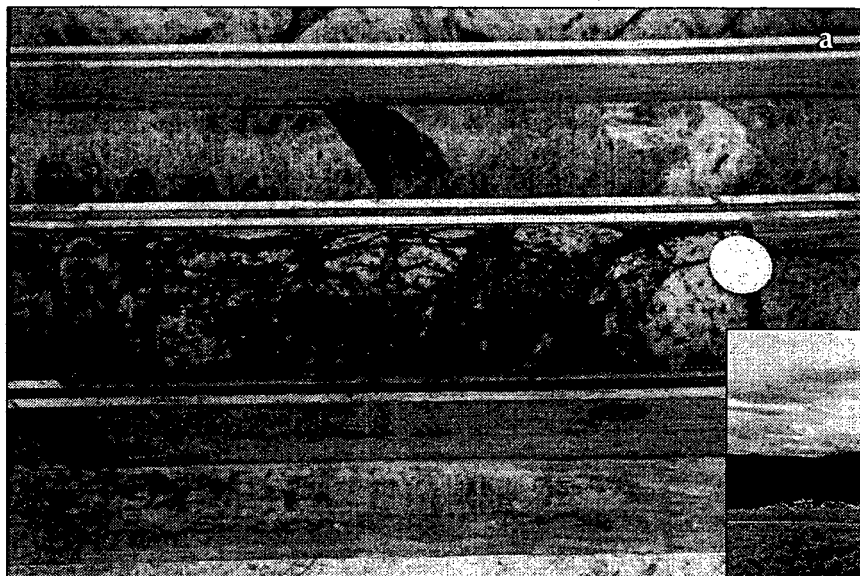


Figure 17a and 17b.

(a) Wollastinite-bornite skarn mineralization from the HAT claims assayed 4.99% Cu, 1.05 g/t Au and 8.7 g/t Ag over 10.55 m. (b) The drill hole was collared in the Whitehorse landfill site.



**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Haxe
MINFILE #: 115J 020
MAJOR COMMODITIES: - Cu, Mo
MINOR COMMODITIES: -
TECTONIC ELEMENT: Yukon-Tanana Terrane

NTS MAP SHEET: 115 J 10
LATITUDE: 62°39'55"N
LONGITUDE: 138°33'46"W
DEPOSIT TYPE: Unknown
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

RAY, HILL, AXE, HEN, BATTLE

WORK HISTORY

Partially staked as Ray cl (97882) in Jan/66 by Nordex EL and explored by geochemistry. Restaked as Axe and Hill cl (Y38350) in Oct/69 by Montana ML, which conducted soil sampling and mapping in 1970.

Restaked as Hen cl (YA92240) in Jun/85 by Nordac Mg Corp and optioned to Gyro Energy & MIs Corp later in the year.

Restaked as Battle cl 1-80 (YB57561) by Cominco Ltd in May/95. In Jun/95 Cominco carried out 4 man days of geological mapping, prospecting and soil sampling.

GEOLOGY

The area was previously thought to be underlain by the Triassic-aged Klotassin batholith but more recent mapping by Payne et al. (1987), Johnston (1995) and Cominco found that the area is underlain by a granodioritic phase of the Mid-Cretaceous Dawson Range batholith. The Dawson batholith intrudes Paleozoic metasedimentary schist and quartzite in the Battle Creek/ Mt. Cockfield area. Biotitic, hornfelsed, quartzite and marble talus host a zone of massive sulphide mineralization.

Nordex staked the original claims to explore for silver-lead veins. Soil samples collected by Montana Mines from a pyritic granite in the east central part of the Hill claims returned anomalous copper and molybdenum values. Further work uncovered a zone of disseminated to vein/fractured-hosted chalcopyrite-pyrite-molybdenite +/- bornite at the headwaters of the west branch of Battle Mountain.

Soil sampling completed by Cominco mirrored results reported by earlier exploration programs. Two Cu-Au-Mo anomalies were outlined in the central and southeastern corners of the claim block.

REFERENCES

COMINCO LTD, Mar/96. Assessment Report #093401 by D. Wagner.

JOHNSTON, S.T., and SHIVES, R.B.K., 1995. Interpretation of an airborne multiparameter geophysical survey of the northern Dawson Range, central Yukon: A progress report. In Yukon Exploration and Geology 1994. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 105 - 111.

JOHNSTON, S.T., 1995. Geological compilation with interpretation from geophysical surveys of the northern Dawson Range, central Yukon (115 J/9 & 10; 115 I/12) (1:100 000 scale map). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1995-2 (G).

MINERAL INDUSTRY REPORT 1969-70, p. 61.

MONTANA MINES LTD., Jan/71. Assessment Report # 060223 by B.C. Fulcher.

REFERENCES (CONTINUED)

NORDEX EXPLORATION LTD., Dec/66 Assessment Report #017450 by S.S. Szetu.

PAYNE, J.G. et al. Geology of the Colorado Creek (115 J/10), Selwyn River (115 J/9) and Prospector Mountain (115I/5) Areas. EGSD Open File 1987-3.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Rude Creek
MINFILE #: 115J 022
MAJOR COMMODITIES: Ag,Pb
MINOR COMMODITIES: Zn,Au
TECTONIC ELEMENT: Northern Stikine Terrane

NTS MAP SHEET: 115 J 10
LATITUDE: 62°40'20"N
LONGITUDE: 138°37'31"W
DEPOSIT TYPE: Vein
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

GRUBSTAKE, READY BULLION, DISCOVERY, MEIGHEN, SILVER FOX, LORNA, RAY, MIST, STU, ROGER, JO, ART

WORK HISTORY

First staked as Grubstake, Ready Bullion, etc cl (12534) in Oct/15. Restaked about 1921 as Discovery (13198) & Meighen (13807) by D. Michie, and Silver Fox (13809) by G.H. Leslie, who explored with hand trenches and a 21.9 m adit in 1922-24.

Restaked as Lorna cl (57227) in Jun/47 by G.H. Leslie who trenched annually until 1953. In Oct/65, J. Meloy & L. Proctor staked the Ray cl (92932) and in Jan/66 abandoned these and restaked a larger block of Ray cl (97882). These were transferred to Nordex El, which explored by soil sampling in 1966.

Restaked as Roger, Stu and Mist cl (Y35824) in Sep/69 by A. Nelson and optioned in October by Nickel Hill ML and Pathfinder Res. L, which conducted grid soil sampling and mapping in 1970.

Restaked as Jo cl (YA24201) in May/79 by W.J. Crawford, who trenched in 1980, and as Art cl (YA48999) in May/80, adjoining to the west, by Gold Creek Mg L. This staking was done in conjunction with nearby gold placer mining. Crawford performed stripping and trenching in May/81.

GEOLOGY

The showing consists of a lens of galena and sphalerite about 4.6 m long and up to 25 cm wide in a vein 1 m wide that strikes east and cuts Klotassin granodiorite. A grab sample of galena assayed 71.6% Pb, 6.2% Zn, 6517.5 g/t Ag and 0.34 g/t Au. An adit was driven west along strike but the vein pinched out in the first 3 m.

The Nickel Hill and Pathfinder work was directed toward porphyry exploration, but although anomalous copper values were obtained in silt from Rude Creek, no source could be found.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Summary Report 1916, p. 23-23.

GEOLOGICAL SURVEY OF CANADA Summary Report 1927, p. 11-13.

MINERAL INDUSTRY REPORT 1969-1970 p. 63.

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Zappa (Koffee)	NTS MAP SHEET: 115 J 10
MINFILE #: 115J 036	LATITUDE: 62°44'15"N
MAJOR COMMODITIES: Cu,Au	LONGITUDE: 138°58'02"W
MINOR COMMODITIES: -	DEPOSIT TYPE: Porphyry
TECTONIC ELEMENT: Northern Stikine Terrane	STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

ZAPPA, MOTHERS, AZTEC, RAT, WET, KOFFEE, MAYA, J

WORK HISTORY

Staked as Zappa and Mothers cl (Y36184) in Aug/69 by Dawson Range JV (Straus E Inc, Martin Marietta Corp, Molybdenum Corp of America, Trojan Cons M, and Great Plains Dev C of Can L), which explored by grid soil sampling and mapping in 1969 and a mag survey in 1970. The adjoining Aztec, etc cl (Y37004) were staked in Sep/69 by Trans Columbia EL, which conducted airborne mag and spectrometer surveys followed by grid soil sampling of anomalous areas in 1970.

The Trans Columbia claims were restaked in June-Aug/73 as Rat and Wet cl (Y75586) by Casino Silver ML.

Restaked as Koffee cl (YA8205) in Sep/76 by Archer, Cathro & Assoc Ltd and explored with mapping and sampling in 1980 by Denison ML under an option. Staked again as Koffee 1-58 cl (YB37524) by Renoble Holdings Inc. (YB37482) in Sep/92. Restaked Sep/92 as Maya 1-40 cl (YB37592) by Renoble Holdings Inc. In Mar/93, Renoble consolidated its land holdings with Eastfield Resources Ltd, which acquired a 100% interest subject to a profit sharing agreement. Eastfield conducted a program of geological mapping, geochemical sampling and geophysical surveying (ground magnetometer and induced polarization surveys) on the Ana and Koffee claims in Jun/93. Eastfield also drilled 6 holes on the Ana and 1 hole on the Koffee claims in 1993. In 1994 Eastfield built a road connecting the property to the Cassino airstrip and the Britannia Creek road which leads to a barge landing site on the Yukon River. The company also prepared 6 drill sites for a planned diamond drill program.

Archer, Cathro & Associates (1981) Ltd. staked the J cl (1-40) (YB46605) on the northern boundary of the Koffee and Anna claims in Jan/94.

GEOLOGY

The claims overlie Triassic Klotassin granodiorite intruded by a small stock of pyritized and altered quartz porphyry. Strong copper response is associated with the quartz porphyry while a moderate molybdenum soil anomaly occurs immediately to the northwest.

The 1993 program outlined a large multielement soil geochemical anomaly which coincides with a magnetic high and a chargeability anomaly. There appears to be some indication that the Casino mineralizing system extends five to six km west of the boundary of the ground held by Pacific Sentinel, although large areas of the leached cap may have been eroded away in these areas. Drilling on the Ana claims intersected various intrusive phases ranging from quartz monzonite to Patton porphyry. Potassic alteration with anomalous gold and copper mineralization was intersected in the easternmost holes on the Ana claims.

REFERENCES

EASTFIELD RESOURCES LTD, Jan/94. Assessment Report #093143 by J. Chapman and G.L. Garratt.

REFERENCES (CONTINUED)

EASTFIELD RESOURCES LTD, Jan/94. Assessment Report #093144 by J. Chapman and G.L. Garratt.

EASTFIELD RESOURCES LTD, Nov/94. Assessment Report #093249 by G.L. Garratt.

GEORGE CROSS NEWSLETTER, 22 Feb/93; 10 Mar/93; 13 May/93; 22 Jul/93; 11 Aug/93; 28 Feb/94.

MINERAL INDUSTRY REPORT 1969 and 70, p. 46-47.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 266.

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Idaho
MINFILE #: 115J 099
MAJOR COMMODITIES: Au, Ag
MINOR COMMODITIES: Pb, Zn
TECTONIC ELEMENT: Cretaceous Granite

NTS MAP SHEET: 115 J 10
LATTITUDE: 62°43'26"N
LONGITUDE: 138°33'31"W
DEPOSIT TYPE: Vein
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

DAH, FAITH

WORK HISTORY

Staked as DAH cl (YA92012) in Jun/85 by Chevron Can Res L, which performed mapping and geochemical sampling later in the year. Silverquest Res L optioned the claims in spring 1986, added more DAH cl in June and performed bulldozer trenching later that year. The claims were sold to Rinsey ML in March, 1990 and optioned to Eastfield Resources Ltd in Mar/93.

Restaked in Jun/93 as Faith 1-20 cl (YB38082) by J.P. Ross. Between June and Sept/93 Ross carried out soil, silt and rock sampling, trenching and prospecting on the showing. In Jun/94 Ross optioned the property to Island-Arc Resources Corp.

GEOLOGY

Manganiferous quartz veins containing limonite boxwork with minor pyrite, arsenopyrite, galena and sphalerite occur in altered shear zones cutting mid Cretaceous granitic rocks. Specimens of vein material assayed up to 15 g/t Au and 1 389 g/t Ag. Soil sampling outlined widespread gold, arsenic, silver, lead, zinc and copper anomalies.

Three types of mineralization has been recorded on the property. They are:

- (1) Disseminated sulphides in quartz diorite dykes.
- (2) Chalcedony-calcite veins in limonitic quartz-feldspar porphyry (dyke).
- (3) Sulphide-bearing manganiferous quartz veins.

Ross's work program was primarily aimed at confirming results obtained from previous programs. Although Ross did not obtain as high as previous operators, seven float samples collected from trench 86-2 returned an average of 5.66 g/t Au and 178.7 g/t Ag.

REFERENCES

GEORGE CROSS NEWSLETTER, 15 Mar/93.

ROSS, J.P., Aug/94. Assessment Report #092238 by B.J. Price.

YUKON EXPLORATION 1985-86, p. 363-364.

ARCHER, CATHRO

A-ASSOCIATES-(1981)-LIMITED-

CONSULTING GEOLOGICAL ENGINEERS

1016-510 WEST HASTINGS STREET
VANCOUVER, B.C. V6B 1L8

(604) 688-2568

09-1821

091821

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

IDAHO CREEK PROPERTY

(DAH 1-22, 25-49, 50F-59F and 60-66, 68-70 Claims)

located at

Latitude 62°45'N; Longitude 138°33'W

on

NTS Mapsheets 115J/9 & 10

W. Douglas Eaton, B.A., B.Sc.

Work done between June 25 and July 13, 1985

091821



REPORT

ON THE

IDAHO CREEK PROPERTY

DAK QUARTZ CLAIMS

FOR

RINSEY MINES LTD.

WHITEHORSE MINING DISTRICT

YUKON TERRITORY

BY

FRANZEN MINERAL ENGINEERING LTD.

J.P. FRANZEN, P.ENG.

North Vancouver, B.C.

April 15, 1989

<u>Anomaly</u>	<u>Dimensions</u>	<u>Principal Metals</u>	<u>Maximum Values</u>					<u>Sb</u> <u>ppm</u>	<u>Comments</u>
			<u>Au</u> <u>ppb</u>	<u>Ag</u> <u>ppm</u>	<u>Pb</u> <u>ppm</u>	<u>Zn</u> <u>ppm</u>	<u>As</u> <u>ppm</u>		
A	varies from metal to metal but relatively contiguous over 1200 x 600 m	polymetallic	258	122.0	3302	1340	1500	1110	Shape of anomaly suggests dispersion from 2 or more NNE-trending zones and possibly ENE-trending zone; quartz veins occur in part of this anomaly
B	varies from metal to metal but relatively contiguous over 1000 x 400 m	polymetallic	1490	11.6	6172	1210	2650	20	same as A
C	two or more clusters within 800 x 400 m	Au,As	6550	6.6	790	900	2330	10	As and Au values coincide with porphyry dykes and ENE-trending linears
D	scattered clusters within 1000 x 300 m	Au,As	918	10.2	456	720	1000	10	Anomalous values follow ENE trend developed in the hanging wall of the porphyry dyke and major linear

Table 3: Geochemical Anomalies, Idaho Creek Property

associated with this structure (Eaton and Main, 1986).

Discordant plutons of Cretaceous Coffee Creek granitic rocks intrude the previously described metamorphic and plutonic rocks. The Coffee Creek lithology is coarse-grained and equigranular and ranges from biotite granite to quartz monzonite.

The youngest igneous rocks in the area are the Casino volcanics. These volcanic and sub-volcanic rocks occur as small masses on some of the higher peaks of Dawson Range. They are thought to be equivalent to Mid to Upper Cretaceous Mt. Nansen Group (Tempelman-Kluit, 1974). The Casino volcanics range from explosive breccias and eruptive flow rocks to sub-volcanic dykes and breccia pipes.

MINERAL DEPOSITS IN THE AREA:

In the late 1960's and early 1970's, a significant amount of exploration was done in the Dawson Range for porphyry copper/molybdenum deposits. As a result, a number of low grade porphyry copper/molybdenum deposits were discovered in the Dawson Range. Some of these have gold-rich oxide caps. The more significant deposits are listed below:

DEPOSIT	TONNES	CU %	MO %	AU opt
Casino	615 M	0.255	0.025	0.009
Cash	40. M	0.17	0.018	na
Williams Creek	16. M	1.0	na	low
Minto DEF	7.2 M	1.87	na	0.015
Minto Discovery	2.5 M	1.5	na	na
Nucleus	4.1 M	na	na	0.031
Antoniuk	3.7 M	na	na	0.033

In the same area, a number of vein and skarn-hosted gold-silver deposits have also been outlined. These are listed on the following page.

Gold-Silver Deposits of the Dawson Range

DEPOSIT	TONNES	Au	Ag
		g/t	g/t
Mt. Nansen	1,050,925	8.52	172
Margarete Vein	92,000	3.8	68
Augusta Skarn	70,700	4.1	1.04
La Forma.	196,000	12.44	na
Bomber Production	188	na	>1269

Casino Deposit:

The Casino copper-gold porphyry deposit is situated about 20 km west of Idaho Creek. By 1979, drill-indicated reserves of 179 Million tons averaging 0.37% copper and 0.039% MoS₂ had been defined at the property. This deposit included a supergene enriched cap which was estimated to contain 1.5 million ounces of gold at an average grade of 0.011 oz/ton.

More recent comprehensive drilling programs by Pacific Sentinel Gold Corp. has outlined (to November 1993), a "preliminary" geologic reserves of 615 Million tons in several categories as follows:

Category	Tons	Cu%	Mo%	Au opt
Leached	31	0.11	0.024	0.02
Supergene	95	0.43	0.031	0.012
Hypogene	489	0.23	0.024	0.008
Total	615	0.255	0.025	0.009

This reserve has been based on 161,000 feet of drilling in 106 drill-holes. Overburden averages 26 feet thick and the gold-bearing oxidized and leached zones average 212 feet thick. Underlying this, the higher grade supergene blanket averages 182 feet thick and is

ARCHER, CATHRO

B. ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

1016-510 WEST HASTINGS STREET
VANCOUVER, B. C. V6B 1L8

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SILVERQUEST RESOURCES LTD.
BULLDOZER TRENCHING PROGRAM
IDAHO CREEK PROPERTY, YUKON
(DAH 1-22, 25-49, 50F-59F, 60-66, 68-91)

EIP Designation Number EIP86-021

WHITEHORSE MINING DISTRICT

NTS 115J/9 and 10

Latitude: 62°45'N

Longitude: 138°33'W

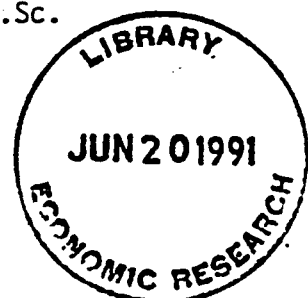
OCTOBER, 1986

by

R.C. Carne, M.Sc.

W.H. Halleran, B.Sc.

Work done between May 31 - July 1, 1986 and August 9, 1986



Appendix 2

Statement of Costs

Claims: FAITH 1-14, YB38082 - YB38095

Dates worked: June 22-30, 2001.

<u>Item</u>	<u>Details</u>	<u>Amount and Unit Cost</u>	<u>Total Cost</u>
Labour	J. Peter Ross	9 days @ \$250/day	\$2,250.00
Camp Costs		9 days @ \$35.00/day	315.00
Transportation	Vehicle self owned 9 days @ \$1450/mon @ 25%	$(\$1450 * 0.25) * 9/30$	108.75
	Kilometres	$225 * \$0.42$	94.50
	Helicopter	$\$3478.62 / 2$	1739.31
Assaying	Float samples	19 @ \$26.03 ea.	494.57
	Bedrock samples	11 @ \$31.72 ea.	348.92
Radio	Self-owned Spilsbury SBX 11	$(\$150 * 0.25) * 9/30$	11.25
Report Preparation		$\$4200 * 10\%$	420.00
		TOTAL COST	\$5,782.30

Five thousand seven hundred eighty two dollars and thirty cents (\$5,782.30), \$4,200 will go towards 3 years of assessment work for each of 14 claims.

Appendix 3

STATEMENT OF QUALIFICATIONS

I, John Peter Ross, do hereby certify that I:

1. am a qualified prospector with mailing address;
B1 - 2002 Centennial Street
Whitehorse, Yukon
Canada. Y1A 3Z7
2. graduated from McGill University in 1970 with a B.Sc. General Science
3. have attended and finished completely the following courses;
1974 - BC & Yukon Chamber of Mines, Prospecting Course
1978 - United Keno Hill Mines Limited, Elsa, Yukon, Prospecting Course
1987 - Yukon Chamber of Mines, Advanced Prospecting Course
1991 - Exploration Geochemistry Workshop, GSC Canada
1994 - Diamond Exploration Short Course, Yukon Geoscience Forum
1994 - Yukon Chamber of Mines, Alteration and Petrology for Prospectors
1994 - Applications of Multi-Parameter Surveys (Whitehorse), Ron Shives, GSC
1994 - Drift Exploration in Glaciated and Mountainous Terrain, BCGS
1995 - Applications of Multi-Parameter Surveys, (Vancouver) Ron Shives, GSC
1995 - Diamond Theory and Exploration, Short Course # 20, GSC Canada
1996 - New Mineral Deposit Models of the Cordillera, MDRU
1997 - Geochemical Exploration in Tropical Environments, MDRU
1998 - Metallogeny of Volcanic Arcs, Cordilleran Roundup Short Course
1999 - Volcanic Massive Sulphide Deposits, Cordilleran Roundup Short Course
1999 - Pluton-Related (Thermal Aureole) Gold, Yukon Geoscience Forum
2000 - Sediment Hosted Gold Deposits, MDRU
2001 - Volcanic Processes, MDRU
4. did all the work and the writing of this report
5. have been on the Yukon Prospectors Assistance and Yukon Mining Incentive Program 1986 - 2001
6. have been on the British Columbia Prospectors Assistance Program 1989 - 1990, 2001
7. have a 100% interest in the claims described in this report at the present time

John Peter Ross
10/Dec/2001



Appendix 4

Soil Sample Geochemistry - Assay Results





105 Copper Road
Whitehorse, Yukon
Y1A 2Z7
Ph: (867) 668-4968
Fax: (867) 668-4890
E-mail: NAL@yknet.yk.ca

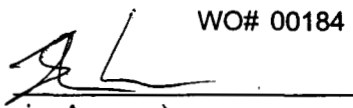
30/07/2001

Certificate of Analysis

of pages (not including this page): 1

Peter Ross

WO# 00184

Certified by 
Justin Lemphers (Senior Assayer)

Date Received: 12/07/01

SAMPLE PREPARATION:						
Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)			
ss	7	sediment	Screen -80 mesh			

ANALYTICAL METHODS SUMMARY:						
Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au 30g	ppb	Gold	G: FA/AAS	30g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
FA = fire assay

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton



105 Copper Road
Whitehorse, Yukon
Y1A 2Z7
Ph: (867) 668-4968
Fax: (867) 668-4890
E-mail: NAL@yknet.yk.ca

30/07/2001

Certificate of Analysis

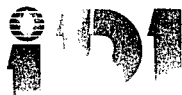
Page 1

Peter Ross

WO# 00184

Certified by

Sample #	Au 30g ppb
SS S467	385
SS S470	716
SS S473	423
SS S514	381
SS S517	131
SS S520	130
SS S523	135



INTERNATIONAL PLASMA LABORATORY LTD.

Northern Analytical Laboratories

Project : WO#00184
Shipper : Norm Smith
Shipment: PO#: 568118
Analysis:
ICP(AqR)30

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CERTIFICATE OF ANALYSIS
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[076415:52:58:10072601]

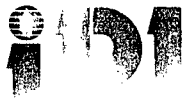
7 Samples Out: Jul 26, 2001 In: Jul 20, 2001

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	7	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
				NS=No Sample	Rep=Replicate
				M=Month	Dis=Discard

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

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[076415:52:58:10072601]

7 Samples Out: Jul 26, 2001 In: Jul 20, 2001

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	7	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
				NS=No Sample	Rep=Replicate
				M=Month	Dis=Discard

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

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BC Certified Assayer: David Chiu



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INTERNATIONAL PLASMA LABORATORY LTD.
Client : Northern Analytical Laboratories
Project: WO#00184

7 Samples
7=Pulp

[076415:52:58:10072601]

Out: Jul 26, 2001
In : Jul 20, 2001

Page 1 of 1
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
S467	P 7.2	31	1326	1067	453	14	<	2	<	<	10.0	12	19	147	<	23	47	972	16	28	6	4	0.07	1.06	0.42	3.14	0.48	0.15	0.03	0.08
S470	P 11.7	43	1617	2321	570	17	<	<	<	<	29.4	12	13	135	<	19	44	1082	22	31	8	5	0.05	1.03	0.46	3.39	0.44	0.15	0.04	0.07
S473	P 8.5	37	1298	1764	403	13	<	2	<	<	19.0	13	18	138	<	22	48	942	21	29	5	5	0.07	1.19	0.47	3.03	0.50	0.13	0.04	0.07
S514	P 7.0	44	1022	1219	332	9	<	2	<	<	14.9	15	21	158	<	24	52	1199	22	28	9	5	0.07	1.25	0.49	3.07	0.50	0.12	0.03	0.08
S517	P 5.5	37	596	1860	276	10	<	3	<	<	30.2	12	11	383	<	12	28	3925	40	22	8	5	0.02	0.79	0.33	3.17	0.23	0.13	0.02	0.05
S520	P 3.8	36	444	6812	354	9	<	<	<	<	61.1	20	6	350	<	12	31	1.3%	43	20	8	6	0.02	0.84	0.32	4.04	0.22	0.12	0.02	0.06
S523	P 4.9	29	699	1881	306	9	<	2	<	<	21.8	11	11	188	<	15	37	2444	26	24	9	4	0.04	0.81	0.35	3.19	0.30	0.15	0.02	0.07

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



Appendix 5

Float (loose bedrock) Sample Geochemistry - Assay Results





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30/07/2001

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of pages (not including this page): 3

Peter Ross

WO# 00185

Certified by 
 Justin Lemphers (Senior Assayer)

Date Received: 12/07/01

SAMPLE PREPARATION:						
Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)			
r	62	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh			

ANALYTICAL METHODS SUMMARY:						
Symbol	Units	Element	Method (A:assay (G:geochem))	Fusion/Digestion	Lower Limit	Upper Limit
Au 30g	ppb	Gold	G: FA/AAS	30g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
 FA = fire assay

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton



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Sample #	Au 30g ppb
F 1	129
F 2	197
F 3	256
F 4	215
F 5	159
F 6	358
F 7	4
F 8	4
F 9	2
F 10	98
F 11	205
F 12	135
F 13	21
F 14	69
F 15	24
F 16	24
F 17	81
F 18	3
F 19	3
F 20	2
F 21	16
F 22	3
F 23	0
F 24	2
F 25	3
F 26	13
F 27	2
F 28	2
F 29	2
F 30	0



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Sample #	Au 30g ppb
F 31	2
F 32	632
F 33	24
F 34A	96
F 34B	150
F 35	10
F 36	2
F 37	3
F 38	2
F 39	8
F 40	1
F 41	3
F 42	2
F 43	13
F 44	7
F 45	1
F 46	7
F 47	4
F 48	10
F 49	193
F 50	808
F 51	4
F 52	4
F 53	23
F 54	6
F 55	15
F 56	40
F 57	25
F 58A	6
F 59	64



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Sample #	Au 30g ppb
r F 60	32
r F 61	5



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[076515:52:44:10072601]

62 Samples Out: Jul 26, 2001 In: Jul 20, 2001

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT		
B31100	62	Pulp	Pulp received as it is. no sample prep.	12M/Dis	00M/Dis		
Analytical Summary NS=No Sample Rep=Replicate M=Month Dis=Discard							
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molybdenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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Project: WO#00185

62 Samples
62=Pulp

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Page 2 of 2
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
F-39	P 0.2	4	36	604	83	<	<	<	<	<	13.7	5	4	105	<	77	11	1605	18	21	5	2	<	0.20	0.60	1.41	0.12	0.12	0.03	0.02
F-40	P <	14	10	61	<	<	<	2	<	<	<	14	8	551	<	54	75	696	14	114	11	6	0.12	1.69	1.54	2.95	0.83	0.46	0.18	0.12
F-41	P 0.1	7	27	61	<	<	<	4	<	<	<	12	6	355	<	73	60	1106	17	98	14	7	0.07	1.23	2.01	2.97	1.08	0.34	0.13	0.08
F-42	P 0.1	3	6	68	<	<	<	4	<	<	<	15	6	270	<	44	69	996	16	135	7	8	0.05	2.00	2.22	3.55	1.00	0.27	0.13	0.12
F-43	P 0.1	6	27	63	20	<	<	2	<	<	<	11	6	187	<	48	30	1545	14	180	8	7	<	0.55	4.57	3.15	0.51	0.16	0.03	0.07
F-44	P 0.2	4	24	75	15	<	<	2	<	<	<	13	9	135	<	32	23	927	18	95	5	4	<	0.34	3.43	2.77	0.18	0.13	0.01	0.09
F-45	P <	5	6	59	<	<	<	2	<	<	<	12	5	498	<	73	63	642	21	67	13	6	0.10	1.57	1.21	2.85	0.75	0.42	0.11	0.08
F-46	P 0.2	6	45	145	<	<	<	2	<	<	<	16	10	807	<	52	67	648	23	25	18	8	0.12	1.96	0.64	3.74	0.95	0.69	0.03	0.09
F-47	P 0.1	7	18	101	32	<	<	3	<	<	<	10	8	132	<	23	18	1303	21	24	7	4	<	0.30	2.26	3.55	0.25	0.14	0.01	0.08
F-48	P 0.3	7	22	126	26	<	<	2	<	<	0.7	14	13	167	<	37	30	2093	14	88	5	6	<	0.33	2.69	3.46	0.38	0.15	0.01	0.10
F-49	P 0.4	11	29	122	6946	18	<	3	<	<	<	11	5	67	<	31	10	4279	9	70	10	3	<	0.23	5.30	3.80	1.21	0.16	0.02	0.09
F-50	P 0.1m	78	16456	1704	3530	64	<	1	<	<	9.7	6	4	129	<	30	11	683	17	39	10	3	<	0.31	0.23	4.04	0.05	0.24	0.02	0.06
F-51	P <	5	58	92	<	<	<	1	<	<	<	13	7	442	<	36	60	887	22	72	12	8	0.08	1.27	1.40	3.04	0.61	0.38	0.08	0.09
F-52	P <	3	20	126	<	<	<	2	<	<	<	12	7	147	<	25	52	1604	17	77	11	9	<	0.34	5.35	3.56	1.31	0.06	0.02	0.08
F-53	P <	3	16	102	39	<	<	2	<	<	<	14	8	114	<	31	21	1834	8	236	10	5	<	0.26	6.72	3.77	0.62	0.14	0.02	0.08
F-54	P <	6	8	126	23	<	<	2	<	<	<	12	8	123	<	25	24	1826	11	249	8	5	<	0.28	6.39	3.61	0.55	0.14	0.02	0.11
F-55	P 0.3	7	23	163	28	<	<	2	<	<	0.5	13	9	138	<	30	28	1667	15	36	8	6	<	0.33	2.25	2.98	0.28	0.13	0.01	0.08
F-56	P 0.2	27	13	127	1995	10	<	3	<	<	0.1	10	4	83	<	34	11	1456	7	44	9	3	<	0.25	3.44	2.91	1.01	0.14	0.02	0.07
F-57	P 0.1	14	10	97	1363	7	<	2	<	<	<	11	7	79	<	38	14	1223	7	44	11	4	<	0.27	3.50	2.99	1.03	0.15	0.02	0.07
F-58 A	P 0.3	15	31	212	62	<	<	1	<	<	1.3	6	2	750	<	69	8	1749	7	36	7	1	<	0.17	4.30	1.90	1.03	0.10	0.01	0.03
F-59	P 0.3	8	103	372	3919	11	<	2	<	<	2.9	11	9	147	<	28	15	2607	8	76	9	3	<	0.23	3.45	3.40	0.87	0.11	0.01	0.07
F-60	P 0.9	21	107	362	648	7	<	2	<	<	5.1	10	8	97	<	40	13	2135	8	103	11	4	<	0.25	3.53	3.09	0.45	0.17	0.02	0.08
F-61	P 0.1	2	62	1027	12	<	<	<	<	<	25.8	5	2	104	<	49	6	1298	22	13	8	1	<	0.17	0.46	1.14	0.04	0.12	0.02	0.02

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

Appendix 6

Float (loose bedrock) Sample Descriptions


<u>Sample Number</u>	<u>Description</u>
F1	Hard piece in B1 (gouge) more quartz
F2	Fractured granodiorite
F3	Granodiorite with yellow green stain and stringers with pyrite
F4	Quartz stringers/Mn
F5	Quartz with Mn and sulphides
F6	Breccia, limonite/Mn
F7	Granodiorite w/fractures, quartz, blue green white limonite
F8	Similar to F7
F9	Similar to F7
F10	Granodiorite, altered yellow green stain
F11	Similar to F10
F12	Similar to F10
F13	Unknown
F14	Quartz stringers, with pyrite and chalcopyrite
F15	Similar to F14
F16	Granodiorite, Mn and limonite
F17	Quartz, Mn and pyrite
F18	Granodiorite-altered, limonite in hair line fractures
F19	Unknown
F20	Granodiorite, black veins on fractures (similar to Ft. Knox)
F21	Quartz, blue grey
F22	Granodiorite, limonite on fractures
F23	Unknown
F24	Similar to F20
F25	Granodiorite, limonite in fractures
F27	Granodiorite, lots of limonite in fractures, soft

Float (loose bedrock) Sample Descriptions (con't)

<u>Sample Number</u>	<u>Description</u>
F28	Similar to F27
F29	Similar to F27
F30	Granodiorite, good fractures
F31	Similar to F30
F32	Gouge, clay, mostly white some beige
F33	White quartz, stock work - different style
F34 A & B	Similar to F33, rough and angular
F35	Granodiorite, small quartz vein
F36	Granodiorite, fractures
F37	Similar to F36
F38	Granodiorite, fractured
F39	Granodiorite, fractured
F40	Bluish with hematite, pyrite
F41	Bluish and silicified with pyrite
F42	Blue grey pyrite and hematite
F43	Unknown
F44	Granodiorite weak yellow green coating
F45	Unknown
F46	Gossan, sandy, light yellow green
F47	Strange?, flat folded up
F48	Skarn? little pyrite
F49	Skarn, lots of pyrite
F50	Gouge 10" red brown
F51	Hematite and pyrite
F52	Granodiorite, silicified with pyrite
F53	Silicified
F54	Quartz vein
F55	Skarn, brown

Float (loose bedrock) Sample Descriptions (continued)

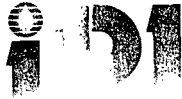
<u>Sample Number</u>	<u>Description</u>
F56	Unknown
F57	Unknown
F58 A	Granodiorite silicified, arsenopyrite stain
F59	Silicified chips
F60	Bedrock at end of trench
F61	In soil sample pit, interesting rock, lots of Mn



Appendix 7

Bedrock Sample Geochemistry - Assay Results





INTERNATIONAL PLASMA LABORATORY LTD.

Northern Analytical Laboratories

Project : WO#00181
Shipper : Norm Smith
Shipment: PO#: 568117
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[074616:18:46:10072301]

26 Samples Out: Jul 23, 2001 In: Jul 17, 2001

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT		
B31100	26	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis		
Analytical Summary							
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molybdenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 1=Copy 1=Invoice 0=3 1/2 Disk
DL=Download 31=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901
* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS IPL 01G0746



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Client : Northern Analytical Laboratories
Project: WO#00181

26 Samples
26=Pulp

[074616:18:46:10072301]

Out: Jul 23, 2001
In : Jul 17, 2001

Page 1 of 1
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
B 1	P 10.8	22	736	1066	1292	20	<	2	<	<	32.5	4	4	325	<	27	5	3824	24	77	7	2	<	0.52	0.16	2.72	0.05	0.18	0.02	0.02
B 2	P <	9	16	209	<	<	<	2	<	<	<	13	20	653	<	76	68	498	17	62	13	4	0.14	1.67	0.90	2.51	1.02	0.49	0.14	0.08
B 3	P 0.2	15	12	169	<	<	<	3	<	<	<	15	29	680	<	91	74	766	19	67	12	7	0.12	1.43	1.77	2.82	1.07	0.49	0.10	0.09
B 4	P 3.0	10	56	1243	657	7	<	3	<	<	4.2	18	35	173	<	37	25	6508	13	64	7	6	<	0.43	3.13	3.28	0.19	0.18	0.01	0.09
B 5	P 4.6	13	216	1832	1746	12	<	2	<	<	14.2	8	11	138	<	33	12	4583	12	26	5	4	<	0.29	0.42	4.27	0.04	0.17	0.01	0.07
B 6	P 3.6	8	253	845	1571	10	<	2	<	<	11.2	13	6	209	<	30	15	1.0*	15	38	4	4	<	0.40	0.28	3.74	0.05	0.18	0.01	0.07
B 7	P <	4	8	188	<	<	<	2	<	<	1.1	12	8	531	<	55	57	1400	20	83	8	7	0.07	1.05	1.76	2.83	0.72	0.27	0.10	0.09
B 8	P <	10	8	50	<	<	<	2	<	<	<	14	9	668	<	51	73	812	18	99	13	7	0.12	1.63	1.56	3.01	0.94	0.42	0.16	0.10
B 9	P <	4	11	49	<	<	<	2	<	<	<	11	7	517	<	73	60	711	15	75	15	6	0.10	1.37	1.23	2.61	0.69	0.39	0.14	0.07
B10	P 0.1	7	13	28	9	<	<	1	<	<	<	4	2	166	<	68	10	620	8	19	7	2	<	0.27	1.07	1.27	0.14	0.10	0.03	0.02
B11	P <	5	16	16	<	<	<	1	<	<	<	1	3	60	<	63	4	260	6	14	8	<	<	0.16	0.90	0.64	0.04	0.08	0.02	0.01
B12	P <	5	19	60	<	<	<	1	<	<	<	12	8	522	<	54	57	662	19	73	10	6	0.11	1.50	1.28	2.80	0.78	0.43	0.10	0.09
B13	P 0.2	5	26	70	66	<	<	1	<	<	<	10	8	173	<	39	31	976	16	89	8	6	0.01	0.47	2.89	2.81	0.22	0.14	0.02	0.08
B14	P 0.2	4	20	78	10	<	<	1	<	<	<	11	8	150	<	32	25	883	19	76	7	4	<	0.47	2.71	2.46	0.20	0.11	0.02	0.08
B15	P 0.3	8	59	165	20	<	<	2	<	<	0.4	14	11	671	<	50	67	742	25	37	14	8	0.12	1.80	0.96	3.48	0.81	0.50	0.05	0.09
B16	P 0.2	11	31	133	7	<	<	2	<	<	0.4	13	9	366	<	49	64	911	23	33	7	10	0.06	1.02	2.15	3.38	0.41	0.30	0.02	0.10
B17	P 0.6	9	33	120	26	<	<	5	<	<	0.2	11	10	186	<	45	21	907	21	30	6	4	<	0.49	1.51	2.82	0.14	0.17	0.02	0.09
B18	P 0.5	6	43	204	77	<	<	2	<	<	0.8	11	6	207	<	33	21	1961	20	39	7	4	<	0.45	2.39	3.05	0.17	0.16	0.02	0.08
B19	P 0.6	6	55	239	682	<	<	1	<	<	1.5	13	11	165	<	39	28	1662	16	67	6	6	<	0.45	2.65	3.17	0.30	0.15	0.02	0.10
B20	P 18.2	33	2590	1375	1154	15	<	2	<	<	8.6	12	9	193	<	34	25	1422	22	42	8	5	<	0.55	1.00	3.44	0.10	0.20	0.02	0.08
B21	P 0.1	26	19	118	14	10	<	1	<	<	0.4	12	9	267	<	48	37	908	19	84	7	6	0.02	0.65	2.35	2.71	0.26	0.19	0.04	0.09
B22	P 0.3	9	31	152	48	<	<	1	<	<	0.1	13	10	230	<	39	41	836	17	66	7	8	0.01	0.56	2.42	2.86	0.23	0.14	0.02	0.09
B23	P 0.7	24	36	313	1076	12	<	2	<	<	0.5	13	8	153	<	38	23	1185	14	25	8	5	<	0.54	1.90	3.34	0.35	0.18	0.01	0.10
B24	P 0.6	41	36	210	117	16	<	3	<	<	0.3	11	8	118	<	42	23	924	15	34	7	5	<	0.47	2.12	2.78	0.30	0.15	0.01	0.08
B25	P 1.5	65	63	408	293	24	<	1	<	<	1.8	11	7	197	<	42	17	1368	21	25	6	3	<	0.48	1.15	3.05	0.20	0.22	0.01	0.08
B26	P 4.2	14	110	423	1741	13	<	3	<	<	3.7	13	8	151	<	33	19	1482	15	44	8	4	<	0.42	1.80	2.76	0.29	0.17	0.01	0.08

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

Appendix 8

Bedrock Sample Descriptions

<u>Sample Number</u>	<u>Length</u>	<u>Description</u>
B1	61 cm	Yellow brown gouge in between Mn stains
B2	110 cm	Granodiorite
B3	106 cm	Some limonite on fractures
B4	86 cm	Gouge, mostly black some yellow and bits of quartz
B5	106 cm	Gouge, mostly yellow some brown/lack some bits of quartz
B6	102 cm	Gouge, mostly yellow some black
B7	122 cm	Granodiorite, limonite on fractures, some Mn stain
B8	152 cm	Granodiorite, limonite on fractures
B9	89 cm	Granodiorite, limonite on fractures
B10	96 cm	Granodiorite, more limonite, softer lots of small veins
B11	165 cm	Granodiorite
B2-B11	1134cm 11.34m	Total length of sampling
B12	114 cm	Granodiorite
B13	91 cm	Granodiorite, some silicified and pyrite
B14	71 cm	Granodiorite, some silica and veins
B15	137 cm	Gouge, light yellow
B16	124 cm	Granodiorite, limonite and fractures, some softer areas
B17	114 cm	Granodiorite, skarn? fractured/silica and limonite
B18	101cm	Skarn? fractured/silica, limonite
B19	89cm	Similar to B18
B20	91cm	Granodiorite, 10" gouge
B21	117cm	Granodiorite, skarn? limonite, some nice quartz stringers
B22	127cm	Similar to B21
B23	71cm	Almost all N-S, brown gouge

Bedrock Sample Descriptions (continued)

<u>Sample Number</u>	<u>Length</u>	<u>Description</u>
B24	142cm	Granodiorite, fractured/limonite, skarn? stringers
B25	145cm	Similar to B24
B26	150cm	Similar to B24
B12-B26	1684cm 16.84m	Total length of sampling