# Diamond Drilling Report

On

**Auburn #6 and #7, Auburn Group Mineral Claims,**
**Pine Creek, Atlin, B.C.**

**NTS 104N (12)**
**Lat. 59° 31' 00" N, Long. 133° 37' 00" W.**

**Owner: W. B. Wallis, P.O.Box 57, Atlin, B.C. V0W 1A0**

**Operator: Trans America Industries Ltd.,**
**#500 – 885 Dunsmuir Street,**
**Vancouver, B.C. V6C 1N5**

**(Report: J.J. McDougall, P.Eng.)**
**(Core Logs: B. Downing, P.Geol.)**

**Work Permit # P-1-551**

25,325

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## 1. Introduction

This report summarizes work performed on the Auburn, Ultra, and Mafic mineral claims near Atlin, B.C. during 1997.

## 2. Property

The property consists of 11 contiguous 2 post located claims, "Auburn 1 to 11", staked May 11, 1997, and 2 contiguous MGS claims, "Ultra and Mafic", staked July 9, 10, 1997 (totaling 25 units) contiguous with the Auburn claims Figs.2, 2(a).

All mineral lode claims (total 36 units) are held by W.B. Wallis, Box 57, Atlin, B.C. V0W 1A0. The claims straddle the lower reaches of Pine Creek commencing about 1.5 Km ENE of Atlin Village and continuing in that direction for nearly 5 Km. (NTS. 104N). All claims have been consolidated as the Auburn Group.

## 3. History

The drill investigation was prompted by the occurrence on flat terrain along secondary roads near Pine Creek about 1.5 Km east of Atlin, B.C. of a prominent brownish red surface discoloration of rounded boulders and soil cover. The zone of discoloration, often iron oxide gossan-like in nature, measured about 50 metres in width and extended northeasterly for over a kilometer before being covered by a prominent esker-derived gravel ridge. Generalized local geological features are shown on Fig.1, one of the more detailed descriptions of the area. On occasion, samples taken by the property owner W. B. Wallis of Atlin, proved to be weakly auriferous and the occurrence was believed to be the surface expression of a buried creek or high level channel similar to some of those which had been mined for placer gold for over 100 years in the local area.

The property was optioned by Trans America Industries Ltd. in early summer, 1997.

Reverse circulation drilling carried out in mid season (9 holes totalling 250 metres) failed to intersect a defined 'channel' before entering bedrock at vertical depths ranging from 15 to 30 m. Bed rock, drilled into for 1 – 2 m, returned cuttings in several instances containing sulphide, quartz, and carbonate with an occasional slightly anomalous gold content.

Based on natural cross sections seen elsewhere along river banks in the north where investigations had taken place (i.e. Liard River at Watson Lake, Y.T.), it seemed quite likely that the staining and gossanous material resulted from the weathering and outwash of an iron-rich sulphide deposit a short distance 'upstream' (NE). A total of eleven "Auburn" lode claims were staked and #6 and #7 were test drilled (Figs.2 – 5) following work on the Red Head Placer Claims staked initially.

## 4. Work Program

A simple VLF (Electromagnetic) and Magnetometer geophysical survey comprising several line kilometers was completed in an easterly direction resulting in a well defined easterly trending VLF anomaly paralleling the north bank of southwesterly flowing Pine Creek. The latter coincides with the strong Pine Creek Fault postulated (See Fig. 1–33-2) in this heavily overburdened area and believed to mark the approximate contact between altered ultramafic rocks to the north and more basaltic material to the south. About 3 kms further northeasterly Homestake Mining had earlier outlined a reported 25,000 oz gold resource. Magnetics suggested that to the north, broken, only partially altered ultramafic blocks within a listwanite-type environment (suggested by the R.C. drill cuttings of quartz, magnesium carbonate and pyrite) were in contact with a silicified basalt and/or a rare ultramafic noted during regional mapping.

Given the strong geophysical target present and favourable rock chip data from the R.C. drilling, it was decided to instigate a short drilling program from approximate collars of the earlier most easterly R.C. holes, primarily to intersect the strong EW structure and secondarily to test weaker crosscutting northerly trending structures also suggested by geophysics. Eight NQ diamond drill holes were completed in this area void of outcrop and another hole was abandoned due to the persistent bouldery nature of the overburden (consisting of placer-wash from upstream). The core holes are the subject of this drilling report and the core logs which follow.

## 5. Diamond Drilling

Nine angled "NQ" diamond drill holes were attempted from locations in the gravel flats near or at the earlier shallow and vertical Reverse Circulation hole collars. These coreholes were designated 7A, 7B, 8A, 9A, 9B, 10A, 10B and 11A, 11B. Due to the extreme bouldery condition of the overburden (a placer wash from upstream) drilling of the flatter dipping core holes was very difficult and expensive. In several cases casing and rod were lost.

A small tractor was supplied by the drill contractors, "D.J. Drilling" of Watson Lake, Y.T., to tow the drill across the gravel bar on which all drilling was done. Drill crews were housed in Atlin.

Drill core was logged, split, and sampled by B. Downing, P. Geol. Mineralized sections were sent to ACME Labs, Vancouver for assay. All drill core was stored at the premises of W.B. Wallis, Atlin.

Non-caved holes were plugged with wood and identified.

The general location of the core holes, and the oxide 'channel', are shown on Fig. 1-33-2 which also portrays minimal geological features surrounding the area drilled. Drill holes or sites are also plotted on maps Fig.2 and Fig. 3.

## 6. Drill Hole Data

Drill hole data, including assay results, are plotted on the Drill Hole Logs, Table #1. Cost statements are included in Table #2. Assay sheets are attached as Table #3. ICP results and gold by "fusion, AA finish" are shown.

Results are self explanatory. Gold values occurring in the lode-type environment encountered (numerous small pyritic quartz-carbonate veins and stringers) are directly related to the arsenopyrite content. This is also the case in most of the Atlin area.

## 7. Qualifications

**J.J. McDougall**, report author, based in Richmond, B.C. is a registered P.Eng. (Geol.) in the Province of B.C. with 45 years of related experience. The drill program was carried out under his direction and included several visits to the property.

**B. Downing**, core logger, based in White Rock, B.C. is a registered P. Geol. in the Province of B.C. with 30 years related experience. Two trips were made to the property by both B. Downing and J. J. McDougall as the project was completed in 2 stages.

**W.B. Wallis**, property owner, is an experienced explorationist residing in Atlin, B.C.

## 8. Statement of Costs

Total expenditures on the Auburn Lode Claims (Red Head Group) (Table 2), total $107,104.69 (Table 2).

Two years assessment credit will be applied toward certain of the lode claims and the remaining total will be applied toward the PAC account of W.B. Wallis, Box 57, Atlin, B.C. V0W 1A0.

James J. McDougall P.Eng

J.J. McDougall, P.Eng.
TRANS AMERICA INDUSTRIES LTD.

December 9, 1997

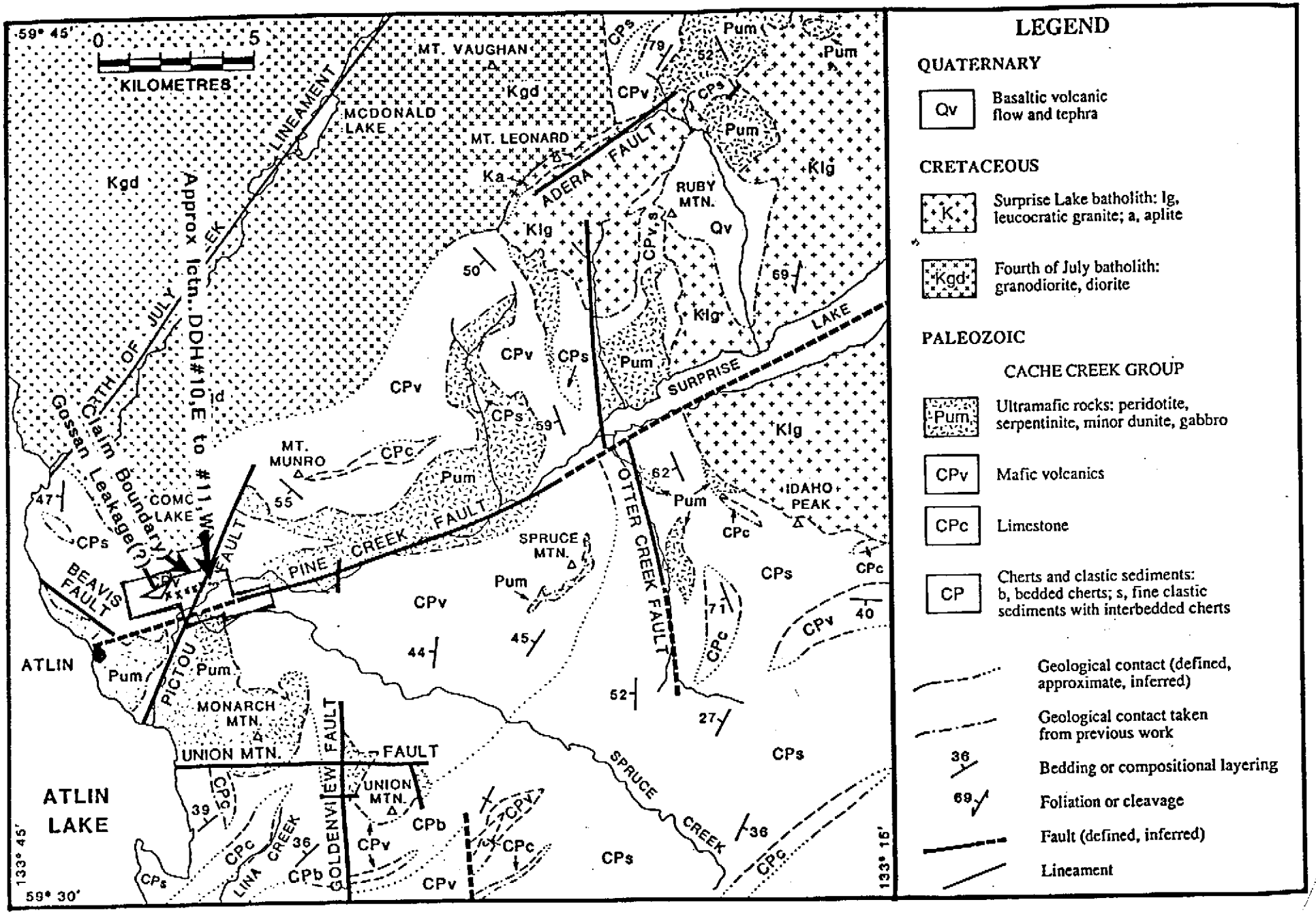



Figure 1-33-2. Geology map (104N/11W, 12E).
(after Paper#1990-1,BC Geol S'vy)

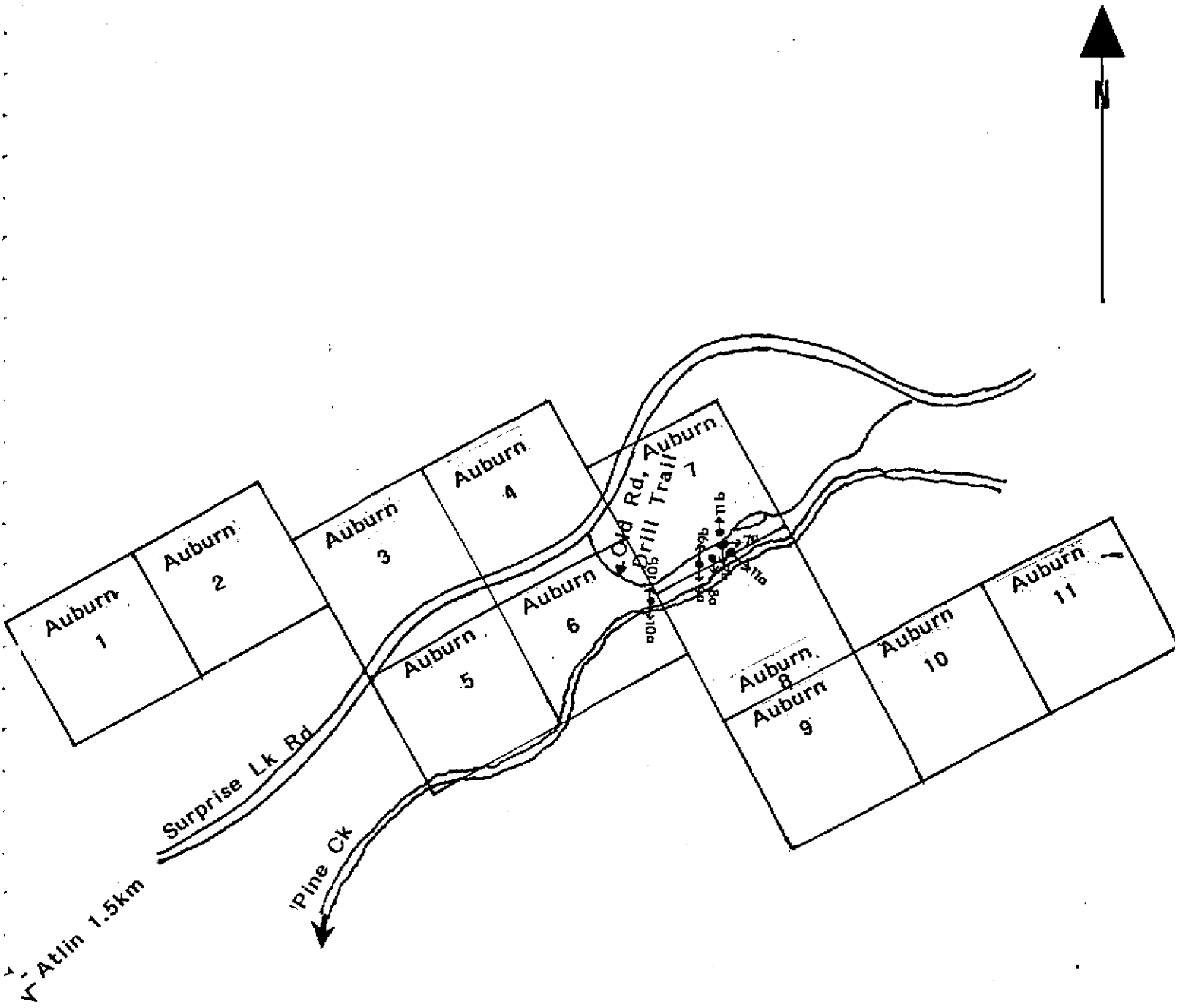



FIG 2/97

DRILL HOLE LOCATION

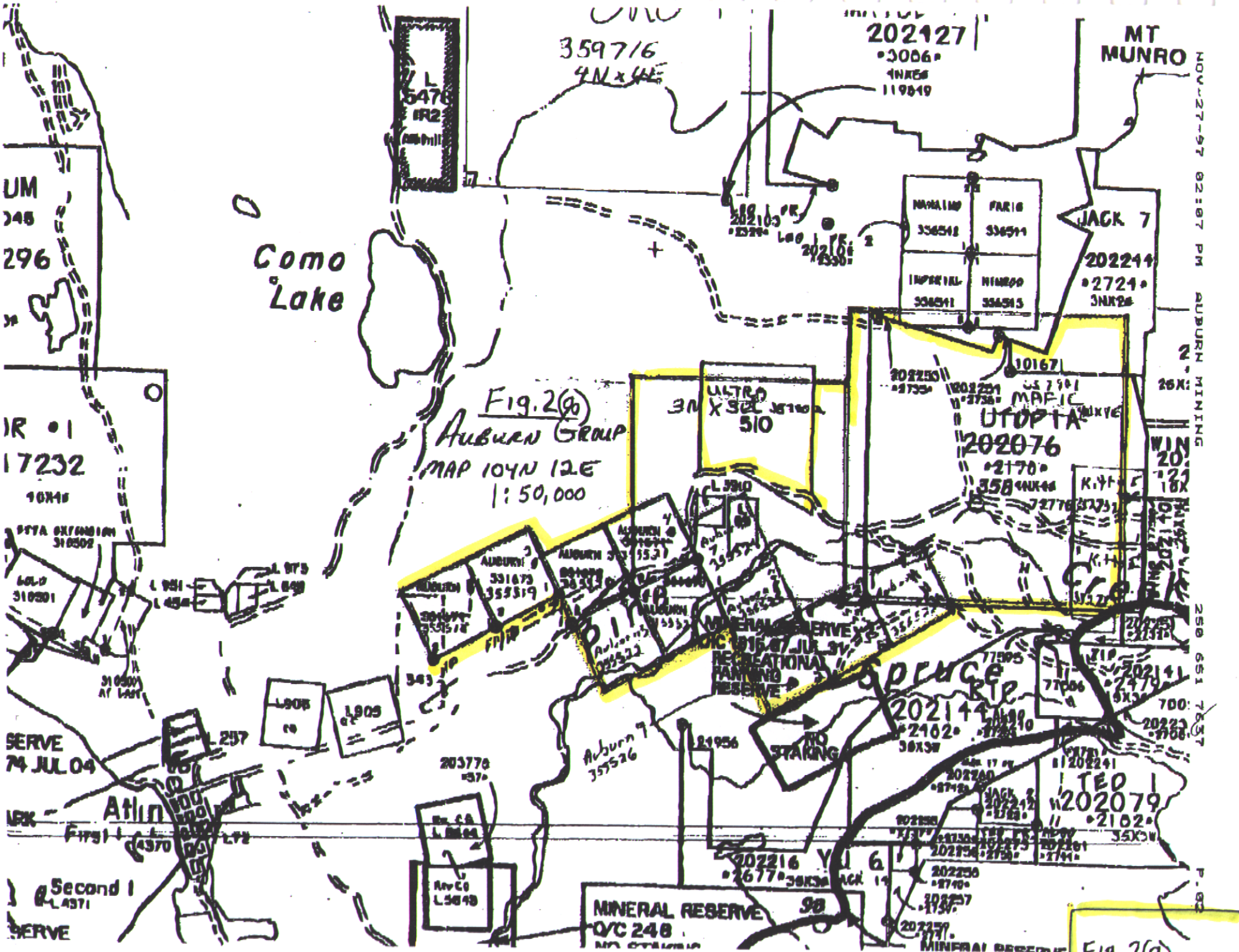
AUBURN GROUP MINERAL CLAIMS-ATLIN, B.C.

Trans America Industries Ltd(for W Wallis,Nov/97
J McDougall,PEng.)

SCALE:1" = 500m

500m

Fig. 2/4



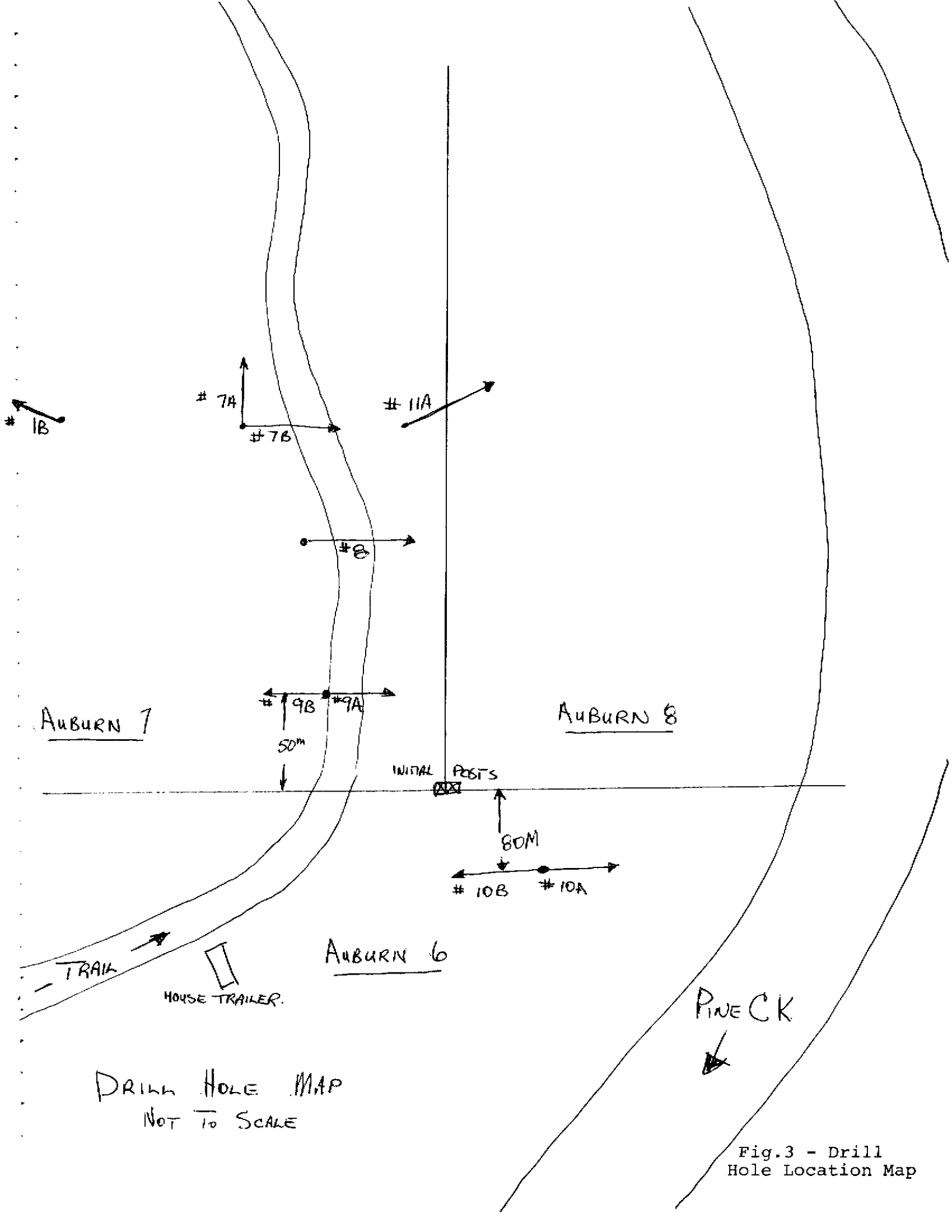



Fig.3 - Drill Hole Location Map

| DIP TEST | | |
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| FOOTAGE | READING | CORRECTED |
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# DIAMOND DRILL RECORD

Hole # 97-7A
Page # 1

PROPERTY Auburn #7 - Atlin, B.C.
LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Ck. at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey

Date Begun August 5, 1997
Date Finished August 6, 1997
Date Logged August 13, 1997
Logged By B. Downing, P. Geol.

Bearing 090°
Elev. Collar 2500' ±
Total Depth 80.8m (265ft)
Core Size NQ

Contractor: D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.8 | 0 | Volcanics | | Casing | | | | | | | |
| 15.8 | 19.8 | 85 | | | Dark Volcanics, broken core; pebbly; probably basalt & tuff | 84539 | 21 | 22.3 | 1.3 | 4 | | |
| 19.8 | 22.6 | ) | | | Altered Zone: | " 40 | 27 | 28 | 1 | 5 | Cu 112 | |
| | | ) | | | 19.8-21-Fault (clay gouge, sand) | " 41 | 28 | 29 | 1 | 5 | Cu 105 | |
| | | ) | Listwanite(?) | | 21 - 22.3 slight to mod. Silicification; diss specks | " 42 | 29 | 31 | 2 | 6 | | |
| | | ) | | | mariposite (2-3%) | " 43 | 31 | 33 | 2 | 3 | Cu 180 | |
| | | ) | | | 22.3 - 22.6 - gouge, sand | | | | | | | |
| 22.6 | 25 | ) | Volcanics | | Volcanics (mafic tuff); trace pyrrhotite (Po), pyrite (Py); sl (slight) to | " 44 | 33 | 34 | 1 | 8 | Cu 158 | |
| | | ) | | | mod (moderate) bleaching; soft clay | " 45 | 34 | 36 | 2 | 15 | | |
| | | ) | Listwanite(?) | | 24.1 - 24.3; qtz (quartz) veining, tr(trace) mariposite | " 46 | 36 | 37 | 1 | 4 | | |
| 25 | 25.4 | ) | | | Altered Zone; ground clay - core and chips | " 47 | 37 | 38 | 1 | 5 | | |
| 25.4 | 26.8 | ) | Volcanics | | Volcanics (volc)-mafic tuff; chloritic | " 48 | 38 | 39 | 1 | 4 | | |
| 26.8 | 31.2 | ) | | | Altered Zone: weak (wk) stockwork pyrite (to 0.5%) | | | | | | | |
| | | ) 98% | | | 30 - 30.1 Tr mariposite | " 49 | 39 | 41 | 2 | 1 | Cr 167 | Ba 514 |
| | | ) to 63.2m | | | | " 50 | 60 | 60.5 | 0.5 | 20.9 | As 362 | |
| 31.2 | 32.9 | ) | | | Basalt, Dark (dk) green, chloritic; Tr Po, silicification (sil) | | | | | | | |
| 32.9 | 36.9 | ) | Listwanite(?) | | Altered Zone: Tr mariposite throughout. | | | | | | | |
| | | ) | Min. | | 33.3 - 2 cm wide rose qtz vein @ 30° ; no sulphides (S2), sl vuggy | | | | | | | |
| | | ) | " | | 33 - 34 - diss (disseminated) py, Tr py cpy (chalcopyrite), | | | | | | | |
| | | ) | " | | Tr Arsenopyrite (ASPY); Sl-mod bleaching | | | | | | | |
| | | ) | | | 35.7 - py, qtz band @ 40' (to core axis) | | | | | | | |
| 36.9 | 39.2 | ) | Listwanite(?) | | Altered Zone: Tr Mariposite, mod bleaching | | | | | | | |
| | | ) | | | 36.9 - 38.5 - thin streaks of py, Tr aspy, cpy | | | | | | | |
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| FOOTAGE | READING | CORRECTED |
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# DIAMOND DRILL RECORD



PROPERTY Auburn #7 - Atlin, B.C.
LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck junction. Minimal Survey

Date Begun August 5, 1997
Date Finished August 6, 1997
Date Logged August 13, 1997
Logged By B. Downing, P. Geol.

Bearing 090°
Elev. Collar 2500' ±
Total Depth 80.8m (265ft)
Core Size NQ

Contractor: D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39.2 | 80.8 | 95% | Volcanics | | Basalt (pass greenstone / mafic tuff); mod and strong silicification | | | | | | | |
| | | | and | | 46 - 46.5 - strong sil, patchy bleaching with PO (less than 0.5%) | | | | | | | |
| | | | Listwanite | | 46.7 - 47 - sl-mod bleaching, Tr mariposite banding @ 25° | | | | | | | |
| | | | | | 48 - 48.6 - strong sil; irregular chalcedonic qtz veinlets; py (less than 0.5%) vugs, | | | | | | | |
| | | | | | bleached patches | | | | | | | |
| | | | | | 52.4 - 55.0 patches of altered rock, wk to mod silic. Broken core | | | | | | | |
| | | | | | (54.8) - 2 cm qtz vein, banding at 30° | | | | | | | |
| | | | | | 59.7 - 60.0 - altered, weakly talcose, wk - mod silic; beige - cream colored; | | | | | | | |
| | | | | | Tr mariposite | | | | | | | |
| | | | | | 60.0 - 60.3 - banded chalcedonic qtz vein @ 20° (grey/white bands); | | | | | | | |
| | | | | | 0.25 - 0.50 cm wide. | | | | | | | |
| | | | | | 60.3 - 61.0 - altered rock; wk sil, talc. | | | | | | | |
| | | | | | 63.2 - 67.0 - Fault Zone; chips and broken core; some gravel and clay; | | | | | | | |
| | | | | | patches sl - mod silic basalt with patchy alteration, some clay, talc | | | | | | | |
| | | | | | 67.0 - 67.5 - broken core, strong silic, 1 - 2% mariposite; py streaks to nearly 0.5% | | | | | | | |
| | | | | | as veinlets | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | 70.4 - 71.1 - altered zone; wk talcose | | | | | | | |
| | | | | | 71.8 - 73.0 - altered zone; wk to mod silic. Tr talc. | | | | | | | |
| | | | | | 78.5 - 79.1 - Fault; broken core, chips | | | | | | | |
| | | | | | 80.0 - 80.8 ground | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | E. O. H. (End of Hole) | | | | | | | |
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| DIP TEST | | |
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| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
| 0m | - 50° | |
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# DIAMOND DRILL RECORD



PROPERTY Auburn #7 - Atlin, B.C.

LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey

Date Begun August 6, 1997

Date Finished August 8, 1997

Date Logged August 13, 1997

Logged By B. Downing, P. Geol.

Bearing 180°

Elev. Collar 2500' ±

Total Depth 80.9m (295ft)

Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.8 | 0 | Casing | | | 84522 | 43.6 | 46.3 | 2.7 | 3 | | |
| 15.8 | 16.8 | ) | Overburden | | Overburden - mainly basalt | " 23 | 46.3 | 47.8 | 1.5 | 1 | | |
| 16.8 | 21.3 | ) 95% | Regolith | | ("C" horizon) - basalt | " 24 | 47.8 | 48.8 | 1 | 1 | | |
| 21.3 | 32 | ) | Basalt | | Mod silic; diss Po, minor Py veinlets; | " 25 | 66.4 | 67.9 | 1.5 | 2 | | |
| | | | | | Py on fractures; chlorite partings; non magnetic | " 26 | 71.7 | 73.2 | 1.5 | 1 | | |
| | | | | | 22.5 - 22.6 - Shear zone, chl (chlorite); py 3 - 5% | | | | | | | |
| | | | | | 25.0 - 25.4 - Grey quartz vein, no S2 (sulphides); broken | " 27 | 75 | 77 | 2 | 1 | | |
| | | | | | 26.3 - 30.5 - Broken Core | " 28 | 77 | 79 | 2 | 4 | | |
| | | | | | 30.5 - 36.2 - Fault - broken core and clay | " 29 | 79 | 80.2 | 1.2 | 1 | | |
| 32 | 32.4 | 90% | Altered Zone | | friable bleached quartzose rock, clay, carbonate | " 30 | 80.2 | 81.7 | 1.5 | 753(0.022oz) | AS-1868 | |
| 32.4 | 40.3 | 95% | Basalt | | Weakly silic | " 31 | 81.7 | 83 | 1.3 | 3 | | |
| | | | | | 35.9 - 36.2 - mod bleached zone (patchy) | | | | | | | |
| | | | | | 36.2 - 36.4 - White qtz and C03 (carbonate) veinlets. No S2 | " 32 | 83 | 85 | 2 | 2 | | |
| | | | | | 36.4 - 40.3 - Clay, gravel | " 33 | 85 | 87 | 2 | 1 | | |
| 40.3 | 43.6 | 96% | Altered Zone | | Altered Zone: 43.8 - banding @ 75°; streaks & blebs of talc | " 34 | 87 | 89.5 | 2.5 | 1 | | |
| 43.6 | 80.2 | 96% | Basalt | | 46.3 - 46.4 - sl to mod bleaching | " 35 | 89.5 | 89.9 | 0.4 | 1 | | |
| | | | | | 48.2 - 48.4 - banding @ 65°; py/qtz vein (0.5 cm) scattered qtz veins | | | | | | | |
| | | | | | 59.0 - Sand and gravel | | | | | | | |
| | | | | | 59.6 - 59.7 - qtz vein 0.5 - 1% py | | | | | | | |
| | | | | | 62.3 - 0.5 cm qtz vein @ 60° | | | | | | | |
| | | | | | 62.4 - 1.0 cm qtz vein @ 30° (0.5% py) | | | | | | | |
| | | | Altered Zone | | 63.7 - 64.5 - bleached, occ vug, qtz veining | | | | | | | |
| | | | " | | 66.4 - 67.8 - contact @ 70°; 1 cm qtz vein | | | | | | | |
| | | | | | 64.8 - contact @ 15° | | | | | | | |
| | | | Shear Zone | | 71.1 - 71.3 - qtz veins @ 35° | | | | | | | |
| | | | | | 71.7 - 72.7 - strong silicification | | | | | | | |
| | | | | | 72.7 - 73.2 - weak silic, talcose, chalcedonic streaks | | | | | | | |
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| DIP TEST | | |
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| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
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# DIAMOND DRILL RECORD



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Elev. Collar 2500' ±

Total Depth 89.9m (295ft)

Core Size NQ

Contractor: D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80.2 | 81.7 | 98% | Mineralized Zone | | Broken Core, sl clay, white qtz | | | | | | | |
| | | | | | 80.2 - 3 cm gouge | | | | | | | |
| | | | | | 80.5 - foliation @ 45° | | | | | | | |
| | | | | | 80.7 - 80.8 - breccia; qtz frags, pyritic matrix, minor arsenopyrite (20 - 25%) | | | | | | | |
| | | | | | 80.8 - 81.2 - py streaks, Tr aspy (5 - 10%) | | | | | | | |
| | | | | | 81.6 - 81.7 - strong bleaching | | | | | | | |
| 81.7 | 89.5 | 98% | Basalt | | 81.7 - 82.1 - mod bleaching | | | | | | | |
| | | | | | Sl - mod silicic (possible "greenstone" ?) | | | | | | | |
| | | | | | 84.3 - 84.5 - Altered zone, beige color, wk silicic/talcose/Co3 | | | | | | | |
| | | | | | 86.5 - 88.4 Wk -mod bleaching | | | | | | | |
| 89.5 | 89.9 | 98% | Altered Zone | | Tr to 0.5% Py, weak silicic, minor veining | | | | | | | |
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| DIP TEST | | |
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# DIAMOND DRILL RECORD

Hole # 97-8A
Page # 1

Collar: 57m 563'W of 97-7A

PROPERTY Auburn #7 - Atlin, B.C.

LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey

Date Begun August 8 1997

Date Finished August 10, 1997

Date Logged August 13, 1997

Logged By B. Downing, P. Geol.

Bearing 180°

Elev. Collar 2500 ±

Total Depth 64.9m (213 ft.)

Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 18.3 | 0 | Casing | | | 84511 | 20.8 | 22.9 | 2.1 | 1 | | |
| 18.3 | 20.3 | 98% | Basalt | | Diss Po, scattered py (0.5 - 1%)m, weakly silicic | " 12 | 44 | 46 | 2 | 2 | | |
| | | | | | Chlorite partings, massive | " 13 | 48 | 50 | 2 | 28 | Ba | 514 |
| 20.3 | 32.3 | 60% | Quartz Eye | | Beige colored, stockwork qtz & chalcedonic | " 14 | 48 | 50 | 2 | 1 | | |
| 32.3 | 60.5 | 95% | Rhyolite (?) | | veinlets; diss py plus fine grained py blebs | " 15 | 54 | 56 | 2 | 1 | | |
| | | | Intermixed Basalt | | tr cpy aspy (1 - 1.5%); C03 hairline fracture filling; minor siderite - ankerite (?) | | | | | | | |
| | | | and altered | | sericitic; not siliceous; crackle texture (scattered) | | | | | | | |
| | | | ultramafics | | 32.0 - 32.3 - Basalt | | | | | | | |
| | | | | | 46.8 - 47.1 - Basalt; fault (chipsand gouge) | | | | | | | |
| | | | | | 48.5 - 51.5 - Scattered irreg veinlets & blebs talc | | | | | | | |
| | | | | | 52.2 - 53.5 - fault; brokencore & gravel | | | | | | | |
| | | | | | 52.8 - 53.5 - basalt | | | | | | | |
| | | | | | 56.8 - 57.1 - talc blebs and veinlets | | | | | | | |
| | | | | | 57.5 - 60.5 - fault gouge, broken core | | | | | | | |
| | | | | | 58.0 - 58.6 - greenstone (?) | | | | | | | |
| 60.5 | 64.9 | | Greenstone | | Green black, non magnetic; weak to mod silicic; chlorite partings, | | | | | | | |
| | | | | | Tr Po (poss 'chl basalt') | | | | | | | |
| | | | | | 64.9 - End of Hole | | | | | | | |
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| DIP TEST | | |
|---|---|---|
| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
| 0m | - 50° | |
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# DIAMOND DRILL RECORD

Hole # 97-9A

Collar: 50m 580'W of 97-8A



PROPERTY Auburn #7 - Atlin, B.C.

LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey

Date Begun August 11, 1997

Date Finished August 12, 1997

Date Logged August 13, 1997

Logged By B. Downing, P. Geol.

Bearing 000°

Elev. Collar 2500' ±

Total Depth 68.6m (225 ft.)

Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23.4 | 0 | Casing | | | | | | | | | |
| 23.4 | 25.6 | 90% | Volcanics | | Mafic Crystal Tuff, chloritic, non magnetic, tr Py | 84501 | 25.6 | 29 | 3.4 | 2 | | |
| 25.6 | 29 | 70% | Fault Zone | | Chips, gravel, clay | " 02 | 29 | 31 | 2 | 1 | | 514 |
| | | | | | Quartz eye rhyolite (?), beige colored, chalcedonic | " 03 | 31 | 33 | 2 | 1 | | |
| | | | | | veinlets; diss Py; tr cpy, aspy (1-2%); tr pyrolusite | " 04 | 33 | 35 | 2 | 1 | | |
| | | | | | 26.0 - 26.5 - Basalt; diss Po (0.5% max.) | " 05 | 44 | 46 | 2 | 1 | | |
| 29 | 45.5 | 95% | Basalt | | Grey - green, non magnetic; wk to mod silicic | | | | | | | |
| | | | | | diss Po, py in hairline fractures; tr cpy (0.5 - 1%) | " 06 | 46 | 47.5 | 1.5 | 68 | As-226 | |
| | | | | | Py & C03 on fracture surfaces; occ qtz veinlet | " 07 | 47.5 | 49.5 | 2 | 3 | | |
| | | | | | 30.2 - 30.4 - sl silicic; diss Po, tr cpy, aspy (1 0 2%) | " 08 | 62.5 | 64.5 | 2 | 12 | | |
| | | | | | 31.7 - 31.9 -m fault gouge, gravel | " 09 | 64.5 | 66.6 | 2.1 | 4 | | |
| | | | | | 38.5 - 40.8 - broken core | " 10 | 66.6 | 68.6 | 2 | 1 | | |
| 45.5 | . | 85% | Fault Zone | | Chips, gavel, broken core; some clay/gouge | | | | | | | |
| 45.5 | 46 | ) | Volcanics | | Quartz eye rhyolite (?), | | | | | | | |
| 46 | 47.5 | ) | Breccia | | Quartz C03 Py breccia; tr cpy and aspy, banded chalcedonic quartz; scattered | | | | | | | |
| | | ) 85% | | | vugs; 2 - 3% Py; tr mariposite | | | | | | | |
| 47.5 | 50 | ) | Volcanics | | Quartz-eye rhyolite(?); diss Py (0.5 - 1%) | | | | | | | |
| 50 | 51.7 | ) | Basalt | | Weakly silicic | | | | | | | |
| 51.7 | 52.7 | ) | Volcanics | | Quartz-eye rhyolite(?); | | | | | | | |
| 52.7 | 63.5 | 95% | Basalt | | Weakly silicic | | | | | | | |
| | | | | | 60.5 - 61.5 - broken core | | | | | | | |
| | | | | | 61.3 - 61.5 - gouge fault | | | | | | | |
| 63.5 | 66.7 | 90% | Fault Zone | | Gravel, gouge, clay, broken core | | | | | | | |
| | | | | | 63.5 - 66.7 - Quartz-eye rhyolite(?); strong alteration, bleaching, wk silicic, | | | | | | | |
| | | | | | diss Py | | | | | | | |
| | | | | | 64.9 - 65.1 - basalt | | | | | | | |
| 66.7 | 68.6 | 100% | Basalt | | " End of Hole | | | | | | | |
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| DIP TEST | | |
|---|---|---|
| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
| 0m | - 50° | |
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# DIAMOND DRILL RECORD

Hole # 97-9B
Page # 1

Collar: 50m 580'W of 97-8A

PROPERTY Auburn #7 - Atlin, B.C.

LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey

Date Begun August 13 1997

Date Finished August 14, 1997

Date Logged August 17, 1997

Logged By B. Downing, P. Geol.

Bearing 180°

Elev. Collar 2500 ±

Total Depth 62.5m (205 ft.)

Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.6 | 0 | Casing | | | | | | | | | |
| 12.6 | 16.8 | 90% | | | Cored overburden | 84516 | 17.7 | 19.8 | 2.1 | 2 | | |
| 16.8 | 17.7 | 90% | | | Regolith "C" horizon | " 17 | 23 | 27.6 | 4.6 | 1 | | |
| 17.7 | 19.8 | ) | Volcanic | | Quartz-eye rhyolite (?); grey chalcedonic | " 18 | 32 | 35.1 | 3.1 | 1 | | |
| | | ) | | | veining; Py less than 10%, occ vug; slight to mod silicic; | " 19 | 35.1 | 38.1 | 3 | 5 | Ba-329 | |
| | | ) | | | few white qtz veins, no Py | " 20 | 60.6 | 62.1 | 1.5 | 10 | | |
| | | )65% | | | 17.7 - 19.8 - Fault zone, broken core, clay, chips, | | | | | | | |
| 19.8 | 23 | ) | Volcanic | | Basalt | | | | | | | |
| 23 | 27.6 | ) | " | | Quartz-eye rhyolite (?); chalcedonic qtz, few vugs, tr Py | | | | | | | |
| 27.6 | 32.3 | ) | Volcanic | | Basalt | 84562 | 53.3 | 54.3 | 1 | 1 | | |
| 32.3 | 38.5 | ) | " | | Quartz-eye rhyolite (?), streaks & blebs Py, chalcedonic | " 63 | 54.3 | 55.8 | 1.5 | 1 | | |
| | | | | | quartz veins; wk-mod silicic; brecciated crackle texture | | | | | | | |
| 38.5 | 42 | 100% | Volcanic | | Basalt | | | | | | | |
| 42 | 44.5 | ) | " | | Quartz -eye rhyolite (?) | | | | | | | |
| 44.5 | 49.4 | ) 75% | " | | Basalt | | | | | | | |
| 49.4 | 55.8 | ) | " | | Quartz - eye rhyolite (?) | | | | | | | |
| | | | | | | | | | | | | |
| 55.8 | 60.6 | ) | " | | Basalt | | | | | | | |
| 60.6 | 62.2 | ) 98% | " | | Quartz - eye rhyolite (?), sk silicic, chalcedonic (grey and white) veining | | | | | | | |
| 62.2 | 62.5 | ) | " | | Basalt (ground) | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | End of Hole | | | | | | | |
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| | | | | | * Note: Quartz-Eye "Rhyolite" may be highly silicified ultramafic or volcanic ??? | | | | | | | |
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| DIP TEST | | |
|---|---|---|
| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
| 0m | - 50° | |
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# DIAMOND DRILL RECORD

Hole # 97-10A

Collar: Hole is 172m @ 253° from Hole 97-7A collar



PROPERTY Auburn #6 - Atlin, B.C.

LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey

Date Begun August 14, 1997

Date Finished August 15, 1997

Date Logged August 15, 1997

Logged By B. Downing, P. Geol.

Bearing 180°

Elev. Collar 2520'±

Total Depth 32.9m (108 ft.)

Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.2 | 0 | Casing | | Overburden (bouldery) | | | | | | | |
| 12.2 | 16.8 | 85% | O.B. | | Regolith ("C" horizon) cored | 84536 | 23 | 25 | 2 | 6 | | |
| 16.8 | 32.9 | 90% | Fault Zone | | Clay, sand, gravel, broken core, etc. | " 37 | 25 | 27.1 | 2.1 | 1 | | |
| | | | | | | " 38 | 27.1 | 29 | 1.9 | 3 | | |
| | | | | | - Highly altered rock (quartz eye rhyolite (??) | | | | | | | |
| | | | | | - Chips of chalcedonic and white quartz veining | | | | | | | |
| | | | | | - Tr to 1% py | | | | | | | |
| | | | | | **End of Hole** | | | | | | | |
| | | | | | Hole abandoned due problems drilling (tightening) | | | | | | | |

| DIP TEST | | |
|---|---|---|
| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
| 0m | - 50° | |
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# DIAMOND DRILL RECORD

Hole # 97-10B

Collar: Hole is 172m @ 253° from Hole 97-7A collar

Page # 1

PROPERTY Auburn #6 - Atlin, B.C.

LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey

Date Begun August 15, 1997

Date Finished August 17, 1997

Date Logged August 17, 1997

Logged By B. Downing, P. Geol.

Bearing 000°

Elev. Collar 2520' ±

Total Depth 43m (141 ft.)

Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.7 | 0 | Casing | | Overburden | 84551 | 21.3 | 23.2 | 1.9 | 2 | | |
| 10.7 | 15.8 | 50% | O.B. | | Pebbles (mainly basalt) | " 52 | 23.2 | 24.2 | 1 | 2 | | |
| 15.8 | 21.3 | 95% | O.B. | | Cored, basaltic | " 53 | 24.2 | 25.2 | 1 | 2 | | |
| 21.3 | 43 | 75%(±) | Volcanic | | Altered Zone; mod-strong silicic; py, tr Po, aspy, cpy 0.5 - 1% | " 54 | 25.2 | 26.2 | 1 | 1 | | |
| | | | | | Short sulphide sections 1 - 2%. | " 55 | 26.2 | 29.3 | 3.1 | 3 | | |
| | | | | | 21.5 - 41.5 - light gray to greenish brown, patches of beige color | | | | | | | |
| | | | | | 26.2 - 41.5 - mostly broken core, chips, grey clay | " 56 | 29.3 | 32.3 | 3 | 2 | | |
| | | | | | 41.5 - 43.0 - (broken core, chips): | " 57 | 32.3 | 35.4 | 3.1 | 2 | | |
| | | | | | | " 58 | 35.4 | 37.4 | 2 | 1 | | |
| | | | | | | " 59 | 37.4 | 39.5 | 2.1 | 4 | | |
| | | | | | | " 60 | 39.5 | 41.5 | 2 | 5 | | |
| | | | | | | | | | | | | |
| | | | | | 41.5 - 43.0 Light green-cream color; strong silicification, stockwork, | " 61 | 41.5 | 43 | 1.5 | 5 | | |
| | | | | | some breccia; tr mariposite; py (0.5 - 1%); occ vug to 43.0 | | | | | | | |
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| | | | | | End of Hole - (Due caving and tightening) | | | | | | | |
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| DIP TEST | | |
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| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
| 0m | - 70° | |
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# DIAMOND DRILL RECORD

Hole # 97-11A

Collar: Hole is 30m @ 010° from Hole 97-7A collar



PROPERTY Auburn #7 - Atlin, B.C.

LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck/Spruce Ck. Junction. Minimal Survey

Date Begun September 24, 1997

Date Finished September 26, 1997

Date Logged October 20, 1997

Logged By B. Downing, P. Geol.

Bearing 140°

Elev. Collar 2500'±

Total Depth 77.7m (255 ft.)

Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.2 | 0 | | | Casing | | | | | | | |
| 15.2 | 38.4 | 26% | Basalt | | Fg, dk grey - grey; mottled due to alteration/bleaching (patches); | 84601 | 22.6 | 25.9 | 3.3 | 4 | | |
| | | | | | wk to mod silicic with some strong silicic patches; Py & Po (tr - 0.5%); | " 02 | 25.9 | 29.3 | 3.4 | 2 | | |
| | | | | | bleaching - wk to mod. | " 03 | 29.3 | 38.4 | 9.1 | 3 | | |
| | | | | | 22.6 - 38.4 - broken ground core, mud | " 04 | 38.4 | 41.5 | 3.1 | 3 | | |
| | | | | | | " 05 | 41.5 | 42.7 | 1.2 | 2 | | |
| 38.4 | 41.5 | 65% | Fault | | Sand, mud | " 06 | 42.7 | 44.4 | 1.7 | 2 | | |
| 41.5 | 44.4 | 95% | | | Alteration zone: beige - cream qtz stockwork, | " 07 | 44.4 | 46 | 1.6 | 2 | | |
| | | | | | Py grains and micro veinlets (0.5 - 1%) | " 08 | 46 | 47.5 | 1.5 | 4 | | |
| | | | | | 43 - 44.4 - compacted mud/sand | " 09 | 47.5 | 50.2 | 2.7 | 5 | Ba 131 | |
| 44.4 | 47.5 | 80% | Basalt | | No mottling; qtz veinlets, tr py | " 10 | 50.2 | 52 | 1.8 | 2 | | |
| 47.5 | 60.3 | 90% | | | Alteration zone: | | | | | | | |
| 60.3 | 77.7 | 95% | | | 50.1 - 3 cm gouge | " 11 | 52 | 52.5 | 0.5 | 316 | As 824 | |
| | | | | | 50.1 - 50.2 - basalt - core broken | " 12 | 52.5 | 53.5 | 1 | 6 | Cu 124 | |
| * Note: | | | | | 52.1 - 3 cm S2 mineralization @ 80° | " 13 | 53.5 | 54.5 | 1 | 6 | Ba 146 | |
| Sulphides lost in fault areas | | | | | 52.4 - 3 cm S2 min. @ 70° | " 14 | 54.5 | 55 | 0.5 | 6 | | |
| | | | | | 53.1 - 3 cm S2 min. @ 70° | " 15 | 55 | 56 | 1 | 16 | | |
| | | | | | Mineralization - white to grey qtz, thin banding; | " 16 | 56 | 58 | 2 | 2 | | |
| | | | | | vugs; C03 (tr - 0.5%); tr mariposite; py (0.5 - 1%) | " 17 | 58 | 60.3 | 2.3 | 2 | | |
| | | | | | 54.2 - 54.4 - mineral @ 60 - 70°; breccia; barren | " 18 | 60.3 | 61.6 | 1.3 | 2 | | |
| | | | | | qtz vein with several vugs, cuts earlier qtz - | " 19 | 61.6 | 63.1 | 1.5 | 2 | | |
| | | | | | C03, Py veins or bands | " 20 | 63.1 | 65.9 | 2.8 | 2 | | |
| | | | | | 55.2 - 55.8: broken core, min as above | " 21 | 65.9 | 67 | 1.1 | 3 | | |
| | | | | | 56.8 - 57.1: ground core, mud, chips | " 22 | 67 | 68.9 | 1.9 | 2 | Zn 138 | |
| | | | | | (Samples 55.4 (altered basalt), 53.7 (mineralized) | " 23 | 68 | 72 | 4 | 2 | | |
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| DIP TEST | | |
|---|---|---|
| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
| 0m | - 70° | |
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# DIAMOND DRILL RECORD

Hole # 97-11A

Collar: Hole is 30m @ 010° from Hole 97-7A collar



PROPERTY Auburn #7 - Atlin, B.C.

LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey

Date Begun September 24, 1997

Date Finished September 26, 1997

Date Logged October 20, 1997

Logged By B. Downing, P. Geol.

Bearing 140°

Elev. Collar 2500'±

Total Depth 77.7m (255 ft.)

Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60.3 | 65.9 | | Basalt | | (Sample @ 60.5) | 84624 | 72 | 72.5 | 0.5 | 22 | Cd 5.2 | |
| 65.9 | 66.2 | | | | Alteration Zone: wk qtz vein @ 40° with Py and numerous vugs | " 25 | 72.5 | 73 | 0.5 | 2 | | |
| 66.2 | 66.8 | | Basalt | | Mottled | " 26 | 73 | 75 | 2 | 3 | | |
| 66.8 | 67 | | | | Alteration Zone; scattered qtz vein and vugs | " 27 | 75 | 77.7 | 2.7 | 2 | | |
| 67 | 69.4 | | Basalt | | Mottled, patches of alteration; broken core and chips | | (End) | | | | | |
| 69.4 | 72 | | | | Basalt (ctd.) | | | | | | | |
| 72 | 75.6 | | | | Alteration zone - med to strong silicic; tr mariposite, Py (tr - 0.5%) | | | | | | | |
| | | | | | 72.0 - 72.5 - sl silicic; qtz - py veining | | | | | | | |
| | | | | | at 25° (py 0.5 - 1%), (Sample @ 72.3) | | | | | | | |
| 75.6 | 77.7 | | Basalt | | Patches of altered basalt; broken core | | | | | | | |
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| | | | | | End of Hole | | | | | | | |
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| | | | | | (Mechanical breakdown) | | | | | | | |
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# DIAMOND DRILL RECORD

Hole # 97-11B
Page # 1

Collar is 40m @ 010° E of Collar of DDH #7A

| DIP TEST | | |
|---|---|---|
| | ANGLE | |
| FOOTAGE | READING | CORRECTED |
| 0m | - 70° | |
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PROPERTY Auburn #7 - Atlin, B.C.
LOCATION Lower Pine Creek, Atlin @ gravel flat 70m north of Pine Creek at location 1.5 Km ENE of Atlin near Pine Ck./Spruce Ck. Junction. Minimal Survey
Date Begun September 27, 1997
Date Finished September 28, 1997
Date Logged October 20, 1997
Logged By B. Downing, P. Geol.

Bearing 010°
Elev. Collar 2500'±
Total Depth 83.1m (272.5 ft.)
Core Size NQ

Contractor:D.J. Drilling, Watson Lake, Y.T.

| DEPTH FROM | DEPTH TO | RECOVERY % | VISUAL LOG | ROCK CODE | DESCRIPTION | SAMPLE # | FROM | TO | WIDTH OF SAMPLE (m) | Au (ppb) | ICP | Of Interest (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.8 | 0 | | | Casing | | | | | | | |
| 16.8 | 35.4 | 85% | Basalt | | Fine grained; gray to dark grey; wk - mod silicic | 84828 | 42.8 | 43.7 | 0.9 | 1 | | |
| | | | | | with strong silicic patches; patchy mottling occ, | " 29 | 43.7 | 45.1 | 1.4 | 2 | | |
| | | | | | tr py/po (to 0.5%) | " 30 | 45.1 | 46.6 | 1.5 | 2 | | |
| | | | | | 16.8 - 30 - broken core, chips (fault?) | " 31 | 46.6 | 47.9 | 1.3 | 2 | | |
| | | | | | | " 32 | 47.9 | 55.5 | 7.6 | 2 | | |
| 35.4 | 39.2) | | U-MAFIC | | Serpentinized ultramafic, black/green, strongly | | | | | | | |
| | ) | | | | magnetic, mottled, sheared, etc. | " 33 | 55.5 | 61 | 5.5 | 2 | | |
| 39.2 | 41 | 95% | Basalt | | - | | | | | | | |
| 41 | 42 | | U-MAFIC | | Serpentinized ultramafic | | | | | | | |
| | | | | | | | | | | | | |
| 42 | 61) | | Basalt | | wk. To mod silicic; tr py, po cpy (44.0) | | | | | | | |
| | ) | 85% | | | broken core - chips, etc. | | | | | | | |
| 61 | 82.1) | | U-MAFIC | | Serpentinized ultramafic | | | | | | | |
| 82.1 | 83.1) | | Basalt | | Basalt (or greenstone?), broken core | | | | | | | |
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| | | | | | End of Hole | | | | | | | |
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# Trans America Industries Ltd.
# Auburn Lode Claims
## Red Head Group

| Type | Date | Num | Name | Memo | Amount |
|---|---|---|---|---|---|
| ***Mineral Properties*** | | | | | |
| **Deferred Exploration** | | | | | |
| **Contract Services** | | | | | |
| Bill | 6/26/97 | 2 | Frontier Exploration Ser... | | 1,000.00 |
| Bill | 8/19/97 | 4529 | R & R Enterprises | Cat Work fro Drill Pads | 160.50 |
| Bill | 8/29/97 | | Auburn Mining | Drilling Gopher & Prep | 3,200.00 |
| Bill | 9/30/97 | 14269 | Auburn Mining | Drilling Gopher & Prep | 800.00 |
| Bill | 11/4/97 | 14271 | Auburn Mining | Splitting Core | 600.00 |
| Total Contract Services | | | | | 5,760.50 |
| **Drilling** | | | | | |
| Bill | 8/18/97 | | DJ Drilling Company Ltd. | | 55,490.00 |
| Bill | 9/30/97 | | DJ Drilling Company Ltd. | | 26,043.15 |
| Total Drilling | | | | | 81,533.15 |
| **Equipment Rental** | | | | | |
| Bill | 6/23/97 | 44729 | Gary Lee | Mag & VLF | 150.00 |
| Bill | 9/30/97 | | Auburn Mining | ATV | 300.00 |
| Total Equipment Rental | | | | | 450.00 |
| **Field Supplies** | | | | | |
| Bill | 8/31/97 | | Gamah International Li... | Sample bags | 23.22 |
| Bill | 9/30/97 | | Auburn Mining | | 173.80 |
| Bill | 10/31/97 | | Bruce Downing | Sample bags | 23.22 |
| Total Field Supplies | | | | | 220.24 |
| **Food & Board** | | | | | |
| Bill | 6/23/97 | 44729 | Gary Lee | | 90.00 |
| Bill | 8/31/97 | | Gamah International Li... | Lunch | 18.50 |
| Bill | 9/30/97 | | Auburn Mining | Hotel | 55.00 |
| Bill | 9/30/97 | | J.J. McDougall & Associ... | | 361.43 |
| Bill | 10/31/97 | | Bruce Downing | Hotel | 281.19 |
| Bill | 10/31/97 | | Bruce Downing | Meals | 74.83 |
| Total Food & Board | | | | | 880.95 |
| **Fuel** | | | | | |
| Bill | 9/30/97 | | Auburn Mining | | 325.84 |
| Bill | 9/30/97 | | J.J. McDougall & Associ... | | 54.74 |
| Bill | 10/31/97 | | Bruce Downing | | 46.50 |
| Total Fuel | | | | | 427.08 |
| **Geological Consulting** | | | | | |
| Bill | 6/18/97 | | J.J. McDougall & Associ... | Site Visit | 1,040.00 |
| Bill | 7/25/97 | | J.J. McDougall & Associ... | Program Supervision | 4,000.00 |
| Bill | 9/8/97 | 925 | Gamah International Li... | B. Downing | 4,250.00 |
| Bill | 9/30/97 | 97156 | Harris Exploration Servi... | Petrograhic Exam | 127.00 |
| Bill | 9/30/97 | | J.J. McDougall & Associ... | Program Supervision | 1,360.00 |
| Bill | 9/30/97 | 963 | Gamah International Li... | B. Downing | 250.00 |
| Bill | 10/31/97 | 978 | Gamah International Li... | B. Downing | 1,625.00 |
| Total Geological Consulting | | | | | 12,652.00 |
| **Miscellaneous** | | | | | |
| Bill | 6/9/97 | 001 | Frontier Exploration Ser... | | 65.58 |
| Bill | 9/30/97 | | Auburn Mining | | 150.45 |
| Bill | 9/30/97 | | J.J. McDougall & Associ... | Film, Rock Cutting | 32.75 |
| Bill | 9/30/97 | | J.J. McDougall & Associ... | Telephone | 183.68 |
| Bill | 10/31/97 | 978 | Gamah International Li... | Telephone | 2.24 |
| Total Miscellaneous | | | | | 434.70 |
| **Transportation** | | | | | |
| Bill | 6/23/97 | 44729 | Gary Lee | Truck + Mileage | 273.00 |
| Bill | 8/31/97 | | Gamah International Li... | Gas | 127.57 |
| Bill | 9/30/97 | | Auburn Mining | Truck rental | 1,640.00 |
| Bill | 9/30/97 | | J.J. McDougall & Associ... | Truck rental | 353.86 |
| Bill | 10/31/97 | 978 | Gamah International Li... | Mileage | 329.70 |
| Total Transportation | | | | | 2,724.13 |
| **Travel** | | | | | |
| Bill | 6/18/97 | | J.J. McDougall & Associ... | | 1,021.78 |
| Bill | 9/8/97 | 925 | Gamah International Li... | Airfare | 340.02 |
| Bill | 9/8/97 | 925 | Gamah International Li... | Mileage | 329.70 |
| Bill | 9/30/97 | | J.J. McDougall & Associ... | Airfare | 330.44 |
| Total Travel | | | | | 2,021.94 |
| Total Deferred Exploration | | | | | 107,104.69 |
| Total Mineral Properties | | | | | 107,104.69 |
| **TOTAL** | | | | | **107,104.69** |

TSA



12/10/97

ACME ANALYTICAL LABORATORIES LTD 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

# GEOCHEMICAL ANALYSIS CERTIFICATE

Trans America Industries Ltd. PROJECT RED HEAD File # 97-4725 Page 1

500 - 885 Dunsmuir St., Vancouver BC V6C 1N5 Submitted by: Bruce Downing

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au* ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E 84501 | <1 | 85 | <3 | 102 | <.3 | 42 | 39 | 1230 | 7.45 | <2 | 8 | <2 | <2 | 113 | <.2 | <3 | <3 | 152 | 4.64 | .050 | 5 | 34 | 2.73 | 43 | .02 | <3 | .68 | .04 | .13 | <2 | 2 |
| E 84502 | <1 | 57 | <3 | 56 | <.3 | 36 | 25 | 539 | 4.10 | <2 | <8 | <2 | <2 | 23 | .3 | <3 | <3 | 134 | 2.55 | .044 | 3 | 55 | 1.79 | 61 | .23 | <3 | 1.83 | .27 | .62 | <2 | 1 |
| E 84503 | 1 | 46 | <3 | 38 | <.3 | 47 | 23 | 541 | 3.77 | <2 | <8 | <2 | <2 | 19 | <.2 | <3 | <3 | 107 | 1.95 | .043 | 2 | 82 | 1.69 | 79 | .15 | <3 | 1.59 | .24 | .33 | <2 | 1 |
| E 84504 | 1 | 88 | <3 | 41 | <.3 | 45 | 29 | 455 | 4.01 | <2 | <8 | <2 | <2 | 16 | .2 | <3 | <3 | 124 | 1.68 | .046 | 3 | 63 | 1.72 | 37 | .15 | <3 | 1.65 | .29 | .28 | <2 | 1 |
| E 84505 | <1 | 87 | <3 | 52 | <.3 | 47 | 31 | 892 | 5.34 | 10 | <8 | <2 | <2 | 39 | <.2 | <3 | <3 | 123 | 2.20 | .044 | 3 | 60 | 2.06 | 48 | .04 | <3 | 1.39 | .12 | .15 | <2 | 1 |
| E 84506 | <1 | 19 | <3 | 22 | .4 | 19 | 10 | 1637 | 5.40 | 226 | <8 | <2 | <2 | 324 | .4 | <3 | <3 | 58 | 16.76 | .015 | 7 | 18 | 6.20 | 43 | <.01 | 3 | .28 | .02 | .08 | <2 | 68 |
| E 84507 | <1 | 61 | <3 | 69 | <.3 | 59 | 32 | 1625 | 7.58 | 7 | <8 | <2 | <2 | 96 | <.2 | <3 | <3 | 116 | 6.82 | .041 | 6 | 44 | 4.05 | 374 | <.01 | <3 | .91 | .02 | .08 | <2 | 3 |
| E 84508 | <1 | 93 | <3 | 64 | <.3 | 50 | 34 | 786 | 4.73 | 22 | <8 | <2 | <2 | 34 | <.2 | <3 | <3 | 119 | 3.01 | .044 | 3 | 70 | 1.92 | 46 | .11 | <3 | 1.38 | .15 | .19 | <2 | 12 |
| E 84509 | <1 | 55 | <3 | 69 | <.3 | 43 | 33 | 1164 | 6.47 | 3 | <8 | <2 | <2 | 53 | <.2 | <3 | <3 | 142 | 2.83 | .049 | 4 | 56 | 2.44 | 78 | .05 | <3 | 1.32 | .06 | .31 | <2 | 4 |
| E 84510 | <1 | 27 | <3 | 48 | <.3 | 47 | 23 | 641 | 3.88 | 2 | <8 | <2 | <2 | 24 | .2 | <3 | <3 | 122 | 2.10 | .037 | 3 | 86 | 1.80 | 62 | .11 | <3 | 1.56 | .20 | .31 | <2 | 1 |
| RE E 84510 | <1 | 27 | <3 | 48 | <.3 | 45 | 23 | 633 | 3.83 | <2 | <8 | <2 | <2 | 24 | <.2 | <3 | <3 | 120 | 2.08 | .037 | 2 | 85 | 1.78 | 62 | .12 | <3 | 1.55 | .20 | .30 | <2 | 1 |
| RRE E 84510 | <1 | 27 | <3 | 50 | <.3 | 45 | 23 | 627 | 3.79 | <2 | <8 | <2 | <2 | 24 | .2 | <3 | <3 | 120 | 2.09 | .037 | 3 | 85 | 1.78 | 62 | .11 | <3 | 1.54 | .19 | .31 | <2 | 1 |
| E 84511 | 1 | 52 | <3 | 72 | <.3 | 41 | 34 | 1481 | 9.46 | <2 | <8 | <2 | 2 | 131 | <.2 | <3 | <3 | 136 | 4.22 | .044 | 5 | 35 | 3.50 | 42 | <.01 | <3 | .58 | .03 | .10 | <2 | <1 |
| E 84512 | <1 | 25 | <3 | 77 | <.3 | 49 | 33 | 1423 | 7.65 | <2 | <8 | <2 | <2 | 270 | .2 | <3 | <3 | 199 | 9.58 | .040 | 5 | 89 | 4.44 | 514 | <.01 | <3 | .58 | .02 | .04 | <2 | 2 |
| E 84513 | <1 | 46 | 9 | 77 | <.3 | 51 | 36 | 1280 | 7.43 | 4 | <8 | <2 | 2 | 178 | <.2 | <3 | <3 | 192 | 7.17 | .041 | 5 | 71 | 3.63 | 64 | <.01 | <3 | .66 | .01 | .05 | <2 | 28 |
| E 84514 | <1 | 58 | <3 | 72 | <.3 | 50 | 34 | 1326 | 7.57 | <2 | <8 | <2 | <2 | 185 | .2 | <3 | <3 | 194 | 7.63 | .042 | 6 | 68 | 3.80 | 39 | <.01 | <3 | .56 | .01 | .04 | <2 | <1 |
| E 84515 | <1 | 82 | <3 | 56 | <.3 | 57 | 41 | 1277 | 7.82 | <2 | <8 | <2 | <2 | 100 | <.2 | <3 | <3 | 215 | 4.01 | .050 | 5 | 57 | 2.86 | 140 | <.01 | <3 | .60 | .02 | .08 | <2 | 1 |
| E 84516 | <1 | 43 | <3 | 61 | <.3 | 32 | 30 | 1380 | 7.95 | 4 | <8 | <2 | 2 | 153 | <.2 | <3 | <3 | 199 | 7.71 | .048 | 5 | 27 | 3.81 | 42 | .01 | <3 | .64 | .02 | .07 | <2 | 2 |
| E 84517 | <1 | 49 | <3 | 46 | <.3 | 58 | 29 | 1094 | 5.91 | 2 | <8 | <2 | <2 | 276 | .2 | <3 | <3 | 123 | 8.15 | .032 | 5 | 79 | 3.78 | 37 | .01 | <3 | .66 | .04 | .08 | <2 | <1 |
| E 84518 | <1 | 51 | <3 | 57 | <.3 | 54 | 32 | 1078 | 6.08 | 2 | <8 | <2 | <2 | 241 | .3 | <3 | <3 | 131 | 6.24 | .038 | 5 | 69 | 3.23 | 31 | .01 | <3 | .67 | .03 | .06 | <2 | <1 |
| E 84519 | <1 | 57 | <3 | 72 | <.3 | 38 | 28 | 1176 | 6.23 | 3 | <8 | <2 | 2 | 189 | <.2 | 3 | <3 | 145 | 7.67 | .040 | 5 | 49 | 3.31 | 329 | <.01 | <3 | .51 | .02 | .07 | <2 | 5 |
| E 84520 | <1 | 42 | <3 | 68 | <.3 | 33 | 30 | 1093 | 6.75 | 6 | <8 | <2 | <2 | 94 | <.2 | <3 | <3 | 189 | 4.65 | .050 | 5 | 36 | 2.65 | 63 | .04 | <3 | .78 | .05 | .14 | <2 | 10 |
| E 84521 | <1 | 57 | 4 | 57 | <.3 | 51 | 34 | 992 | 5.94 | 5 | <8 | <2 | <2 | 79 | <.2 | <3 | <3 | 132 | 3.02 | .040 | 4 | 50 | 2.11 | 49 | .01 | <3 | .50 | .04 | .11 | <2 | 103 |
| E 84522 | <1 | 55 | <3 | 63 | <.3 | 33 | 29 | 1435 | 8.24 | <2 | <8 | <2 | <2 | 151 | <.2 | <3 | <3 | 158 | 6.69 | .046 | 6 | 34 | 3.51 | 31 | <.01 | <3 | .57 | .02 | .07 | <2 | 3 |
| RE E 84522 | <1 | 55 | <3 | 64 | <.3 | 34 | 30 | 1434 | 8.23 | <2 | <8 | <2 | 2 | 151 | <.2 | <3 | <3 | 157 | 6.68 | .046 | 6 | 34 | 3.51 | 31 | <.01 | <3 | .56 | .02 | .08 | <2 | 1 |
| RRE E 84522 | <1 | 54 | <3 | 61 | <.3 | 35 | 30 | 1471 | 8.38 | <2 | <8 | <2 | <2 | 157 | <.2 | <3 | <3 | 157 | 6.95 | .046 | 5 | 34 | 3.60 | 29 | <.01 | <3 | .52 | .02 | .07 | <2 | 1 |
| E 84523 | <1 | 59 | <3 | 38 | <.3 | 34 | 23 | 477 | 3.76 | <2 | <8 | <2 | <2 | 21 | <.2 | <3 | <3 | 126 | 2.12 | .053 | 3 | 34 | 1.47 | 35 | .15 | <3 | 1.18 | .19 | .10 | <2 | 1 |
| E 84524 | <1 | 55 | <3 | 59 | <.3 | 48 | 34 | 653 | 4.63 | 7 | <8 | <2 | 2 | 36 | <.2 | <3 | <3 | 116 | 2.05 | .053 | 4 | 38 | 1.92 | 47 | .06 | <3 | 1.05 | .08 | .14 | <2 | 1 |
| E 84525 | <1 | 42 | <3 | 69 | <.3 | 41 | 30 | 1069 | 6.47 | 3 | <8 | <2 | <2 | 60 | <.2 | <3 | <3 | 123 | 2.82 | .040 | 4 | 44 | 2.31 | 33 | .03 | <3 | .98 | .05 | .12 | <2 | 2 |
| E 84526 | 2 | 48 | <3 | 58 | <.3 | 57 | 25 | 776 | 4.66 | <2 | <8 | <2 | <2 | 68 | <.2 | <3 | <3 | 93 | 2.70 | .036 | 6 | 63 | 1.71 | 70 | .04 | <3 | .41 | .04 | .08 | 2 | 1 |
| E 84527 | 1 | 85 | <3 | 45 | <.3 | 44 | 27 | 751 | 5.02 | 7 | <8 | <2 | <2 | 59 | <.2 | 3 | <3 | 122 | 3.00 | .050 | 3 | 45 | 1.52 | 41 | .11 | <3 | .94 | .13 | .12 | <2 | <1 |
| E 84528 | <1 | 44 | <3 | 30 | <.3 | 37 | 21 | 442 | 3.54 | 6 | <8 | <2 | 2 | 24 | <.2 | 3 | <3 | 101 | 2.05 | .048 | 1 | 46 | 1.26 | 33 | .15 | <3 | 1.13 | .13 | .16 | <2 | 4 |
| E 84529 | <1 | 48 | <3 | 31 | <.3 | 27 | 19 | 449 | 3.07 | <2 | <8 | <2 | <2 | 20 | .2 | <3 | <3 | 101 | 2.33 | .042 | 2 | 23 | 1.06 | 34 | .18 | <3 | 1.06 | .17 | .17 | <2 | <1 |
| E 84530 | <1 | 46 | <3 | 53 | .4 | 51 | 27 | 1811 | 10.40 | 1868 | <8 | <2 | <2 | 99 | <.2 | 25 | 3 | 94 | 5.78 | .036 | 5 | 25 | 2.85 | 30 | <.01 | <3 | .69 | .02 | .13 | <2 | 753 |
| E 84531 | 1 | 70 | <3 | 48 | <.3 | 64 | 34 | 744 | 5.16 | 3 | <8 | <2 | <2 | 18 | <.2 | <3 | 3 | 170 | 1.21 | .057 | 3 | 72 | 1.73 | 49 | .11 | <3 | 1.54 | .15 | .19 | <2 | 3 |
| E 84532 | <1 | 40 | <3 | 32 | <.3 | 36 | 19 | 444 | 3.25 | 2 | <8 | <2 | <2 | 11 | <.2 | <3 | <3 | 104 | 1.12 | .052 | 2 | 46 | 1.19 | 39 | .13 | <3 | 1.00 | .20 | .15 | 2 | 2 |
| STANDARD C3/AU-R | 25 | 64 | 35 | 145 | 5.4 | 36 | 11 | 719 | 3.21 | 53 | 22 | <2 | 17 | 26 | 22.6 | 15 | 24 | 76 | .55 | .087 | 17 | 156 | .63 | 138 | .09 | 17 | 1.74 | .04 | .14 | 25 | 491 |

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Table 3 - Assay Sheets

DATE RECEIVED: AUG 25 1997 DATE REPORT MAILED: Aug 29/97 SIGNED BY. . . . . D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ___ ①

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au* ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E 84533 | <1 | 49 | <3 | 42 | .3 | 45 | 24 | 540 | 4.02 | <2 | <8 | <2 | <2 | 13 | <.2 | <3 | <3 | 137 | 1.69 | .051 | 3 | 61 | 1.48 | 40 | .18 | <3 | 1.25 | .24 | .20 | 2 | 1 |
| E 84534 | 1 | 57 | <3 | 45 | <.3 | 38 | 23 | 620 | 4.16 | <2 | <8 | <2 | <2 | 25 | <.2 | <3 | <3 | 124 | 3.07 | .046 | 5 | 41 | 1.40 | 46 | .18 | <3 | 1.05 | .16 | .24 | <2 | 1 |
| E 84535 | <1 | 53 | <3 | 82 | <.3 | 40 | 35 | 888 | 6.10 | 2 | <8 | <2 | <2 | 49 | <.2 | <3 | <3 | 189 | 1.88 | .047 | 3 | 54 | 2.08 | 103 | .08 | <3 | 1.18 | .09 | .50 | <2 | 1 |
| E 84536 | <1 | 78 | <3 | 46 | .3 | 53 | 30 | 1055 | 6.56 | 10 | <8 | <2 | <2 | 130 | <.2 | <3 | <3 | 136 | 4.02 | .038 | 4 | 41 | 2.73 | 28 | <.01 | <3 | .86 | .02 | .06 | <2 | 6 |
| E 84537 | <1 | 95 | <3 | 42 | <.3 | 57 | 37 | 885 | 7.03 | 10 | <8 | <2 | <2 | 111 | <.2 | 3 | <3 | 146 | 2.34 | .040 | 4 | 57 | 2.44 | 30 | .02 | <3 | 1.03 | .04 | .19 | <2 | 1 |
| E 84538 | <1 | 66 | <3 | 55 | <.3 | 63 | 32 | 1192 | 6.64 | 21 | <8 | <2 | <2 | 127 | <.2 | <3 | <3 | 140 | 3.57 | .037 | 4 | 42 | 3.04 | 22 | <.01 | <3 | .93 | .03 | .05 | 2 | 3 |
| E 84539 | <1 | 49 | 4 | 36 | <.3 | 69 | 28 | 1198 | 5.16 | <2 | <8 | <2 | 2 | 289 | <.2 | <3 | <3 | 134 | 8.49 | .123 | 25 | 132 | 3.88 | 308 | .01 | <3 | .54 | .02 | .08 | 2 | 4 |
| E 84540 | <1 | 112 | 4 | 43 | <.3 | 65 | 38 | 1059 | 6.16 | <2 | <8 | <2 | <2 | 162 | <.2 | <3 | <3 | 149 | 5.26 | .037 | 4 | 47 | 3.45 | 186 | .02 | <3 | .78 | .03 | .22 | <2 | 5 |
| E 84541 | <1 | 105 | <3 | 62 | <.3 | 62 | 39 | 1150 | 7.24 | <2 | <8 | <2 | <2 | 154 | <.2 | <3 | <3 | 160 | 4.38 | .039 | 4 | 70 | 3.61 | 154 | .02 | <3 | .76 | .02 | .18 | <2 | 5 |
| E 84542 | 1 | 90 | <3 | 50 | .4 | 60 | 41 | 1158 | 6.62 | 2 | <8 | <2 | 2 | 119 | .2 | <3 | <3 | 174 | 3.84 | .058 | 6 | 90 | 3.02 | 201 | .10 | <3 | 1.12 | .05 | .45 | <2 | 6 |
| RE E 84542 | 1 | 92 | <3 | 52 | .3 | 61 | 43 | 1198 | 6.86 | <2 | <8 | <2 | 2 | 122 | .2 | <3 | <3 | 177 | 3.96 | .061 | 7 | 92 | 3.12 | 209 | .10 | <3 | 1.15 | .06 | .46 | <2 | 5 |
| RRE E 84542 | 1 | 80 | <3 | 48 | .4 | 56 | 39 | 1150 | 6.46 | 2 | <8 | <2 | 2 | 125 | <.2 | <3 | <3 | 166 | 4.07 | .058 | 6 | 88 | 3.05 | 251 | .10 | <3 | 1.06 | .05 | .43 | <2 | 5 |
| E 84543 | <1 | 180 | <3 | 45 | <.3 | 53 | 39 | 782 | 5.91 | <2 | <8 | <2 | <2 | 32 | <.2 | <3 | <3 | 160 | 1.25 | .067 | 3 | 45 | 1.79 | 142 | .18 | <3 | 1.21 | .08 | .44 | <2 | 3 |
| E 84544 | <1 | 158 | <3 | 60 | .4 | 56 | 39 | 1342 | 7.46 | <2 | <8 | <2 | <2 | 133 | <.2 | <3 | <3 | 163 | 3.74 | .047 | 6 | 68 | 3.12 | 234 | .02 | <3 | .72 | .04 | .25 | <2 | 8 |
| E 84545 | 1 | 31 | <3 | 55 | .3 | 48 | 29 | 1199 | 5.53 | 2 | <8 | <2 | <2 | 143 | .2 | <3 | <3 | 102 | 5.28 | .053 | 10 | 234 | 2.99 | 364 | .02 | <3 | .79 | .05 | .18 | <2 | 15 |
| E 84546 | <1 | 61 | <3 | 31 | <.3 | 40 | 25 | 802 | 4.87 | <2 | <8 | <2 | <2 | 44 | <.2 | <3 | <3 | 108 | 1.46 | .040 | 3 | 51 | 1.88 | 73 | .07 | <3 | .97 | .09 | .12 | <2 | 4 |
| E 84547 | <1 | 74 | <3 | 38 | .3 | 50 | 31 | 1681 | 9.66 | <2 | <8 | <2 | <2 | 86 | <.2 | <3 | <3 | 130 | 2.48 | .039 | 5 | 52 | 3.10 | 129 | .01 | <3 | .81 | .03 | .22 | <2 | 5 |
| E 84548 | 1 | 57 | <3 | 65 | <.3 | 49 | 33 | 1350 | 6.05 | 5 | <8 | <2 | 2 | 188 | .3 | <3 | <3 | 110 | 7.37 | .048 | 8 | 144 | 3.71 | 81 | <.01 | <3 | .66 | .02 | .11 | <2 | 4 |
| E 84549 | 2 | 18 | <3 | 42 | <.3 | 39 | 22 | 756 | 3.51 | 9 | <8 | <2 | 2 | 95 | <.2 | <3 | <3 | 68 | 3.04 | .059 | 9 | 367 | 2.30 | 374 | .06 | <3 | 1.12 | .10 | .25 | <2 | 1 |
| E 84550 | <1 | 16 | <3 | 55 | .9 | 36 | 19 | 1276 | 4.43 | 362 | <8 | <2 | <2 | 147 | .2 | 6 | <3 | 56 | 7.58 | .025 | 4 | 41 | 3.57 | 59 | <.01 | 3 | .58 | .02 | .18 | <2 | 209 |
| E 84551 | 5 | 93 | 3 | 39 | .4 | 70 | 42 | 1058 | 8.05 | 12 | <8 | <2 | <2 | 51 | <.2 | <3 | <3 | 150 | 2.12 | .043 | 3 | 86 | 2.29 | 26 | .03 | <3 | .98 | .06 | .10 | <2 | 2 |
| E 84552 | <1 | 74 | <3 | 36 | .3 | 107 | 45 | 628 | 6.93 | <2 | <8 | <2 | <2 | 15 | <.2 | <3 | <3 | 117 | .80 | .042 | 2 | 131 | 2.19 | 21 | .08 | <3 | 1.30 | .09 | .15 | <2 | 2 |
| E 84553 | 1 | 95 | <3 | 35 | <.3 | 60 | 42 | 792 | 7.47 | 5 | <8 | <2 | <2 | 27 | <.2 | <3 | <3 | 129 | 1.31 | .042 | 2 | 53 | 1.50 | 17 | .09 | <3 | .67 | .08 | .05 | <2 | 2 |
| E 84554 | <1 | 82 | <3 | 65 | .3 | 60 | 37 | 1498 | 8.66 | 7 | <8 | <2 | <2 | 86 | <.2 | <3 | <3 | 151 | 2.62 | .044 | 5 | 88 | 2.91 | 31 | .01 | <3 | .90 | .06 | .12 | <2 | 1 |
| RE E 84554 | <1 | 86 | <3 | 69 | .4 | 63 | 39 | 1579 | 9.14 | 3 | <8 | <2 | <2 | 91 | <.2 | <3 | <3 | 158 | 2.76 | .046 | 5 | 93 | 3.06 | 32 | .01 | <3 | .94 | .07 | .12 | <2 | 1 |
| RRE E 84554 | <1 | 83 | <3 | 63 | <.3 | 60 | 38 | 1432 | 8.58 | 3 | <8 | <2 | <2 | 93 | <.2 | <3 | 3 | 149 | 2.71 | .044 | 3 | 86 | 2.86 | 30 | .01 | <3 | .87 | .06 | .11 | <2 | 1 |
| E 84555 | <1 | 89 | <3 | 28 | <.3 | 61 | 43 | 758 | 6.77 | 8 | <8 | <2 | <2 | 41 | <.2 | <3 | <3 | 122 | 1.61 | .045 | 2 | 57 | 1.67 | 28 | .05 | <3 | .93 | .08 | .07 | <2 | 3 |
| E 84556 | 1 | 80 | <3 | 52 | <.3 | 67 | 38 | 840 | 5.93 | 3 | <8 | <2 | 2 | 78 | <.2 | <3 | <3 | 145 | 2.55 | .086 | 12 | 87 | 2.31 | 62 | .06 | <3 | 1.51 | .06 | .14 | <2 | 2 |
| E 84557 | <1 | 37 | <3 | 80 | .5 | 63 | 37 | 1155 | 6.90 | 33 | <8 | <2 | <2 | 105 | .2 | <3 | <3 | 166 | 2.71 | .046 | 5 | 100 | 3.50 | 187 | .08 | <3 | 2.03 | .03 | .86 | <2 | 2 |
| E 84558 | <1 | 49 | <3 | 76 | <.3 | 33 | 32 | 1173 | 7.21 | <2 | <8 | <2 | <2 | 87 | <.2 | <3 | <3 | 185 | 2.41 | .050 | 5 | 33 | 2.81 | 124 | .09 | <3 | 1.43 | .04 | .68 | <2 | <1 |
| E 84559 | <1 | 67 | <3 | 66 | <.3 | 45 | 31 | 926 | 5.73 | 4 | <8 | <2 | <2 | 41 | <.2 | <3 | <3 | 155 | 1.70 | .042 | 2 | 58 | 2.26 | 103 | .10 | <3 | 1.59 | .11 | .59 | 2 | 4 |
| E 84560 | <1 | 60 | 7 | 104 | .6 | 43 | 33 | 1234 | 7.28 | 22 | <8 | <2 | <2 | 68 | <.2 | <3 | <3 | 166 | 2.62 | .040 | 3 | 51 | 2.64 | 98 | .03 | <3 | 1.32 | .04 | .31 | <2 | 5 |
| E 84561 | <1 | 37 | <3 | 41 | <.3 | 41 | 23 | 1305 | 5.40 | 23 | <8 | <2 | <2 | 219 | <.2 | <3 | <3 | 139 | 9.61 | .037 | 5 | 78 | 4.23 | 33 | <.01 | <3 | .59 | .02 | .05 | <2 | 5 |
| E 84562 | <1 | 57 | <3 | 90 | <.3 | 55 | 38 | 1266 | 7.53 | 2 | <8 | <2 | <2 | 98 | <.2 | <3 | <3 | 208 | 4.19 | .057 | 5 | 40 | 2.77 | 27 | <.01 | <3 | .70 | .01 | .04 | <2 | 1 |
| E 84563 | <1 | 19 | <3 | 28 | .4 | 30 | 13 | 1269 | 4.24 | 18 | <8 | <2 | <2 | 214 | .3 | <3 | <3 | 78 | 15.64 | .030 | 8 | 39 | 6.62 | 21 | <.01 | <3 | .38 | .01 | .02 | <2 | <1 |
| STANDARD C3/AU-R | 24 | 63 | 33 | 148 | 5.1 | 35 | 11 | 740 | 3.20 | 51 | 23 | <2 | 17 | 27 | 22.3 | 13 | 22 | 80 | .56 | .084 | 19 | 163 | .62 | 140 | .09 | 19 | 1.80 | .04 | .14 | 23 | 548 |

Sample type: CORE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA (2)

# GEOCHEMICAL ANALYSIS CERTIFICATE

**Trans America Industries Ltd.** File # 97-6371 Page 1

500 - 885 Dunsmuir St., Vancouver BC V6C 1N5 Submitted by: Bruce Downing

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E 84601 | 3 | 76 | 4 | 46 | <.3 | 57 | 32 | 532 | 4.00 | 5 | <8 | <2 | 2 | 37 | <.2 | <3 | <3 | 137 | 2.52 | .040 | 2 | 87 | 1.50 | 44 | .20 | <3 | 1.21 | .23 | .11 | <2 | 4 |
| E 84602 | 2 | 86 | 3 | 52 | <.3 | 49 | 29 | 630 | 4.51 | 13 | <8 | <2 | <2 | 40 | .2 | <3 | <3 | 151 | 3.13 | .047 | 1 | 82 | 1.61 | 28 | .21 | <3 | 1.45 | .26 | .08 | <2 | 2 |
| E 84603 | <1 | 86 | <3 | 43 | <.3 | 58 | 31 | 563 | 4.14 | 21 | <8 | <2 | <2 | 48 | <.2 | <3 | <3 | 119 | 2.40 | .046 | 1 | 54 | 1.70 | 24 | .11 | <3 | 1.25 | .21 | .08 | <2 | 3 |
| E 84604 | 2 | 72 | <3 | 67 | .3 | 66 | 35 | 1033 | 6.14 | 4 | <8 | <2 | <2 | 106 | <.2 | <3 | <3 | 100 | 4.59 | .043 | 4 | 53 | 2.93 | 116 | .03 | <3 | 1.15 | .05 | .25 | 9 | 3 |
| E 84605 | 1 | 47 | <3 | 65 | <.3 | 40 | 30 | 1134 | 6.56 | 3 | <8 | <2 | <2 | 233 | .2 | <3 | <3 | 137 | 8.78 | .034 | 2 | 38 | 3.83 | 87 | <.01 | <3 | .49 | .02 | .06 | <2 | 2 |
| E 84606 | 1 | 31 | <3 | 79 | <.3 | 63 | 35 | 1250 | 7.24 | <2 | <8 | <2 | <2 | 72 | <.2 | <3 | <3 | 76 | 3.14 | .036 | 3 | 72 | 2.90 | 101 | .01 | <3 | .87 | .02 | .10 | <2 | 2 |
| E 84607 | 1 | 54 | <3 | 40 | <.3 | 35 | 25 | 518 | 3.35 | 6 | <8 | <2 | <2 | 32 | <.2 | <3 | <3 | 100 | 1.92 | .048 | 2 | 42 | 1.28 | 28 | .11 | <3 | 1.13 | .23 | .08 | <2 | 2 |
| E 84608 | <1 | 71 | <3 | 79 | .3 | 69 | 33 | 599 | 4.17 | 32 | 10 | <2 | <2 | 24 | <.2 | <3 | <3 | 86 | 1.25 | .047 | 3 | 49 | 1.50 | 32 | .06 | <3 | .97 | .08 | .16 | <2 | 4 |
| E 84609 | 2 | 47 | <3 | 57 | <.3 | 69 | 35 | 1171 | 6.69 | 9 | <8 | <2 | <2 | 159 | <.2 | <3 | <3 | 142 | 5.30 | .037 | 2 | 73 | 2.94 | 131 | .01 | <3 | .58 | .03 | .11 | <2 | 5 |
| E 84610 | 1 | 53 | <3 | 79 | <.3 | 60 | 41 | 1204 | 6.67 | 3 | <8 | <2 | <2 | 178 | <.2 | <3 | <3 | 192 | 6.27 | .042 | 2 | 71 | 3.06 | 20 | <.01 | <3 | .49 | .01 | .03 | <2 | <2 |
| RE E 84610 | 2 | 51 | 3 | 79 | .3 | 59 | 40 | 1174 | 6.47 | 4 | <8 | <2 | <2 | 173 | <.2 | <3 | <3 | 190 | 6.17 | .042 | 2 | 67 | 3.00 | 19 | <.01 | <3 | .49 | .01 | .03 | <2 | <2 |
| RRE E 84610 | 2 | 54 | <3 | 78 | <.3 | 59 | 40 | 1159 | 6.45 | 4 | <8 | <2 | <2 | 172 | .2 | <3 | <3 | 188 | 6.10 | .042 | 2 | 65 | 2.97 | 19 | <.01 | <3 | .48 | .01 | .03 | <2 | 2 |
| E 84611 | 1 | 76 | <3 | 58 | .7 | 37 | 28 | 1102 | 6.15 | 824 | <8 | <2 | <2 | 221 | .2 | 11 | <3 | 118 | 9.00 | .032 | 1 | 33 | 3.64 | 21 | <.01 | <3 | .46 | .01 | .08 | <2 | 316 |
| E 84612 | <1 | 124 | <3 | 110 | <.3 | 76 | 49 | 1164 | 8.63 | 9 | <8 | <2 | <2 | 169 | <.2 | <3 | <3 | 222 | 4.65 | .055 | 1 | 63 | 2.89 | 32 | <.01 | <3 | .55 | .01 | .05 | <2 | 6 |
| E 84613 | 1 | 72 | <3 | 78 | <.3 | 88 | 46 | 1307 | 8.76 | 24 | <8 | <2 | <2 | 108 | <.2 | <3 | <3 | 191 | 3.60 | .043 | 2 | 65 | 2.57 | 146 | <.01 | <3 | .54 | .01 | .05 | <2 | 6 |
| E 84614 | <1 | 39 | <3 | 46 | <.3 | 36 | 23 | 1236 | 6.15 | 24 | <8 | <2 | <2 | 245 | .2 | <3 | <3 | 114 | 11.87 | .026 | 2 | 22 | 4.45 | 56 | <.01 | <3 | .38 | .01 | .03 | <2 | 6 |
| E 84615 | 1 | 25 | <3 | 75 | <.3 | 74 | 36 | 1427 | 6.85 | 44 | <8 | <2 | <2 | 198 | .3 | <3 | <3 | 148 | 7.70 | .037 | 2 | 69 | 3.44 | 64 | <.01 | <3 | .55 | .01 | .04 | <2 | 16 |
| E 84616 | <1 | 47 | <3 | 71 | <.3 | 69 | 41 | 1140 | 7.26 | 3 | <8 | <2 | <2 | 162 | <.2 | <3 | <3 | 150 | 3.70 | .042 | 2 | 60 | 2.45 | 46 | <.01 | <3 | .59 | .03 | .10 | <2 | <2 |
| E 84617 | 2 | 43 | <3 | 69 | <.3 | 46 | 43 | 1585 | 10.05 | <2 | <8 | <2 | <2 | 173 | <.2 | <3 | <3 | 190 | 5.15 | .047 | 2 | 46 | 3.22 | 38 | <.01 | <3 | .65 | .02 | .07 | <2 | <2 |
| E 84618 | 2 | 41 | <3 | 25 | <.3 | 26 | 20 | 445 | 3.07 | 5 | <8 | <2 | <2 | 29 | <.2 | <3 | <3 | 106 | 2.23 | .044 | 1 | 38 | .91 | 16 | .15 | <3 | 1.10 | .25 | .05 | 3 | <2 |
| E 84619 | 1 | 62 | <3 | 36 | <.3 | 39 | 23 | 595 | 3.61 | <2 | <8 | <2 | <2 | 43 | <.2 | <3 | <3 | 102 | 2.84 | .043 | 1 | 52 | 1.33 | 21 | .11 | <3 | 1.09 | .23 | .07 | <2 | <2 |
| E 84620 | <1 | 8 | <3 | 32 | .3 | 42 | 16 | 518 | 2.76 | 2 | <8 | <2 | <2 | 35 | <.2 | <3 | <3 | 68 | 2.28 | .031 | 2 | 71 | 1.53 | 22 | .07 | <3 | 1.08 | .20 | .09 | <2 | 2 |
| RE E 84620 | 1 | 6 | <3 | 31 | <.3 | 40 | 16 | 497 | 2.71 | 2 | <8 | <2 | <2 | 35 | <.2 | <3 | <3 | 67 | 2.22 | .031 | 2 | 68 | 1.49 | 23 | .07 | <3 | 1.04 | .20 | .08 | <2 | 3 |
| RRE E 84620 | 1 | 7 | <3 | 32 | <.3 | 40 | 16 | 496 | 2.69 | 2 | <8 | <2 | <2 | 35 | <.2 | <3 | <3 | 67 | 2.23 | .031 | 1 | 67 | 1.49 | 22 | .07 | <3 | 1.06 | .20 | .08 | <2 | 3 |
| E 84621 | 1 | 2 | <3 | 49 | <.3 | 74 | 30 | 988 | 5.26 | 2 | <8 | <2 | <2 | 125 | .2 | <3 | <3 | 99 | 4.50 | .032 | 1 | 83 | 2.63 | 62 | .01 | <3 | .82 | .08 | .14 | <2 | 3 |
| E 84622 | <1 | 8 | <3 | 138 | .4 | 91 | 39 | 860 | 4.95 | 5 | <8 | <2 | <2 | 95 | .3 | <3 | <3 | 103 | 3.37 | .039 | 2 | 100 | 2.28 | 42 | .01 | <3 | .96 | .07 | .15 | <2 | <2 |
| E 84623 | 2 | 62 | <3 | 48 | <.3 | 57 | 27 | 747 | 4.38 | 9 | <8 | <2 | <2 | 47 | .2 | <3 | <3 | 99 | 2.21 | .036 | 1 | 66 | 1.66 | 29 | .06 | <3 | 1.03 | .18 | .10 | <2 | 2 |
| E 84624 | <1 | 83 | 35 | 102 | .4 | 36 | 31 | 957 | 7.07 | 33 | <8 | <2 | <2 | 92 | 5.2 | 3 | <3 | 178 | 4.53 | .035 | 1 | 39 | 2.58 | 30 | <.01 | <3 | .76 | .04 | .05 | <2 | 22 |
| E 84625 | 1 | 45 | <3 | 52 | <.3 | 40 | 40 | 1127 | 7.32 | 11 | <8 | <2 | <2 | 98 | <.2 | <3 | <3 | 183 | 3.65 | .044 | 1 | 40 | 2.32 | 49 | <.01 | <3 | .60 | .04 | .11 | <2 | 2 |
| E 84626 | <1 | 48 | <3 | 76 | .3 | 57 | 41 | 1181 | 6.74 | 3 | <8 | <2 | <2 | 84 | .2 | <3 | <3 | 149 | 3.17 | .042 | 2 | 67 | 2.34 | 31 | <.01 | <3 | .77 | .03 | .11 | <2 | 3 |
| E 84627 | 2 | 43 | <3 | 59 | <.3 | 64 | 33 | 909 | 5.50 | <2 | <8 | <2 | <2 | 33 | <.2 | <3 | <3 | 115 | 1.68 | .039 | 1 | 75 | 1.73 | 37 | .06 | <3 | 1.20 | .18 | .17 | <2 | 2 |
| E 84628 | 1 | 22 | <3 | 30 | <.3 | 185 | 23 | 304 | 3.40 | 2 | <8 | <2 | <2 | 22 | .3 | <3 | <3 | 130 | .93 | .049 | 2 | 151 | 4.58 | 17 | .13 | <3 | 3.30 | .12 | .02 | <2 | 2 |
| E 84629 | 1 | 71 | 3 | 20 | <.3 | 23 | 10 | 237 | 1.75 | <2 | <8 | <2 | <2 | 10 | <.2 | <3 | <3 | 73 | .96 | .043 | 2 | 47 | 1.06 | 14 | .20 | <3 | 1.00 | .15 | .03 | 2 | <2 |
| E 84630 | <1 | 77 | <3 | 19 | <.3 | 20 | 13 | 234 | 1.77 | <2 | <8 | <2 | <2 | 11 | <.2 | <3 | <3 | 75 | 1.01 | .034 | 1 | 33 | .82 | 22 | .17 | <3 | 1.02 | .17 | .04 | 2 | <2 |
| E 84631 | <1 | 107 | <3 | 20 | <.3 | 85 | 16 | 237 | 2.03 | 3 | <8 | <2 | <2 | 20 | <.2 | <3 | <3 | 82 | 1.16 | .034 | 1 | 84 | 1.32 | 25 | .17 | <3 | 1.69 | .23 | .05 | <2 | <2 |
| STANDARD C3/AU-R | 25 | 65 | 35 | 168 | 5.3 | 37 | 13 | 765 | 3.48 | 56 | 18 | 2 | 16 | 29 | 23.7 | 16 | 20 | 81 | .59 | .085 | 18 | 173 | .60 | 149 | .09 | 17 | 1.89 | .04 | .15 | 18 | 479 |
| STANDARD G-1 | 2 | 3 | <3 | 48 | <.3 | 9 | 5 | 594 | 2.16 | <2 | <8 | <2 | 2 | 70 | <.2 | <3 | <3 | 42 | .62 | .078 | 7 | 95 | .66 | 268 | .15 | <3 | 1.03 | .06 | .50 | <2 | 2 |

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 27 1997 DATE REPORT MAILED: Oct 31/97 SIGNED BY: C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS (3)

Data FA

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au** ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E 84632 | <1 | 55 | <3 | 30 | <.3 | 38 | 14 | 354 | 2.49 | <2 | <8 | <2 | <2 | 27 | .3 | <3 | <3 | 102 | 2.12 | .046 | 2 | 63 | 1.32 | 42 | .29 | <3 | 1.58 | .23 | .05 | 3 | 2 |
| E 84633 | <1 | 66 | 3 | 37 | <.3 | 29 | 19 | 337 | 3.10 | <2 | <8 | <2 | <2 | 11 | .4 | <3 | <3 | 127 | 1.48 | .059 | 2 | 44 | 1.26 | 27 | .26 | <3 | 1.25 | .15 | .06 | 2 | <2 |
| RE E 84633 | <1 | 67 | 3 | 36 | <.3 | 28 | 19 | 335 | 3.12 | <2 | <8 | <2 | <2 | 11 | .2 | <3 | <3 | 127 | 1.48 | .057 | 2 | 43 | 1.27 | 27 | .26 | <3 | 1.24 | .15 | .06 | <2 | <2 |

Sample type: CORE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



Data FA

(4)