

SUMMARY REPORT
1992 EXPLORATION PROGRAM
ON THE
BOOT - ROOSTER - ELLICE AREAS
NORTH MINING DISTRICT, N.W.T.

083153
FOR THE
BACK RIVER JOINT VENTURE

083153

N.T.S. : 76G 9/10
LATITUDE: 65° 41' N
LONGITUDE: 106° 27' W

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DATE: December, 1992

THIS REPORT HAS BEEN EXAMINED AND APPROVED AS TO TECHNICAL WORTH UNDER SECTIONS 6 & 7 OF SCHEDULE II OF THE CANADA MINING REGULATIONS AND VALUED IN THE AMOUNT OF \$480,000.00

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ENGINEER OF MINES FOR CHIEF, NORTH. NON-RENEW. RESOURCES BRANCH

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| G-92R7580.001 | LINE 75+80E | " |
| G-92R7520.001 | LINE 75+20E | " |
| G-92R7460.001 | LINE 74+60E | " |
| G-92R7380.001 | LINE 73+80E | " |
| G-92R7260.001 | LINE 72+60E | " |
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| G-92R5980.001 | LINE 59+80E | " |
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| <u>AYERS</u> | | |
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| R-92A-1.002 | VERTICAL LONGITUDINAL SECTION AYERS SOUTH LIMB GRADE-WIDTH PRODUCT | " |
| R-92A-2.001 | VERTICAL LONGITUDINAL SECTION AYERS NORTH LIMB | " |
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1.0 SUMMARY

Exploration at the Boot Lake property in 1992 consisted primarily of diamond drilling activities. A total of 2,365.84 meters of drilling were completed in 22 drill holes at seven separate target areas, all of which contained at least anomalous amounts of gold in oxide and/or silicate facies iron formation. In addition, surface grid emplacement and ground geophysics consisting of total field magnetometer and VLF-EM surveys were conducted at the Hammer Lake - Rooster Lake area and the Rooster Lake - Fox Pond area. The new grid areas, totalling 12.3 line-kilometers, were subsequently covered by geological mapping, prospecting and rock sampling. Other areas where geological prospecting and sampling were conducted in 1992 include the Trout Lake area, Hammer Lake North, Ayers and Ellice areas. Much of this latter work involved more intensive to detailed reconnaissance of prospective stratigraphy and recovery of additional structural data. Other fieldwork included collection and analysis of orientation till samples down-ice from the Hammer Lake gold occurrence. The program was supported by helicopter and field crews located out of the Boot Lake camp (Table 1).

The most significant 1992 drilling results at the Boot Lake property were obtained at the Hammer Lake and Rooster Lake oxide iron formation targets. Drill intersections with potential ore grades and widths were obtained in intersections at Hammer Lake with some scope for expansion of the mineralized zone to depth and along strike. Drilling elsewhere obtained anomalous to well mineralized iron formation with occasional high-grade gold values. Follow-up is required at several of these target areas.

1.1 Field Work

A total of 12.3 line-kilometers of new grid were established at 60 meter line spacing at the Hammer Lake-Rooster Lake area and at the Rooster Lake-Fox Pond area at the south end of the Boot Lake property on mineral claims BRAU 37 and 38. Total field magnetometer and two-station VLF-EM ground geophysical surveys were carried out over the newly grided areas by Covello, Bryan and Associates of Yellowknife. This work served to guide follow-up geological mapping, prospecting and sampling, especially since much of the grid areas contained less than 5% outcrop. This field work was successful in tracing the oxide iron formation package across the entire grid system from Hammer Lake to Fox Pond. Surface prospecting in the western portion of the Hammer Lake area also located the offset extension of the main Hammer mineralized zone. Surface grab samples containing up to 50.5 g Au/tonne were followed up by two shallow drill holes. These holes intersected lower-grade gold values over narrow widths in mineralized oxide iron formation.

Follow-up sampling and geological mapping was conducted at the Hammer Occurrence and Hammer North areas, Ayers Occurrence, Poison Pond, Ellice Creek and Trout Lake (Tea Pond) targets. The intent of this work was to better define the extent of surface mineralization in the vicinity of the drill targets and to obtain increased structural information to guide drill hole placement. In the Tea Pond area survey controlled prospecting and sampling was carried out in the vicinity of several anomalous samples collected in 1991. This sampling obtained a high proportion of well mineralized grab samples and strongly anomalous gold values in both oxide and silicate facies iron formation. Ten of fifteen total samples contained in excess of 5 g Au/tonne with a maximum value of 30.45 g Au/tonne.

Orientation till sampling was conducted over the down-ice areas of the Hammer Lake target in an attempt to define a dispersion train from the target area. This work consisted of 13 samples in frost boils in the subglacial/lodgement till cover, spaced at 100 meter intervals on two lines 280 meters apart. The results partially define a gold anomaly in both the gold grain count and total gold content of the non-magnetic heavy mineral concentrate. This anomaly is attributed to glacial erosion of the Hammer Lake occurrence.

SLAVE PROVINCE GEOLOGY AND GOLD CAMPS

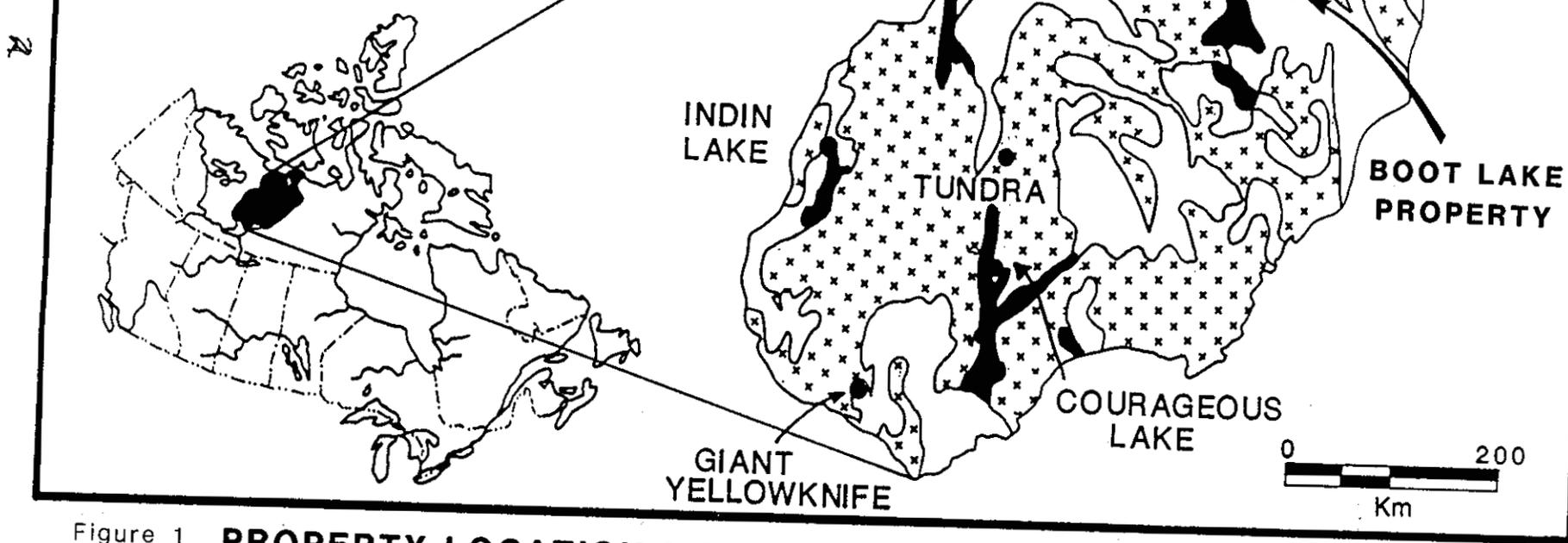
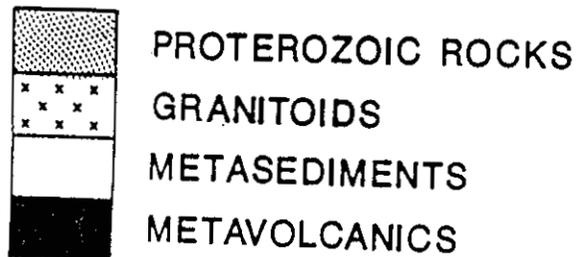


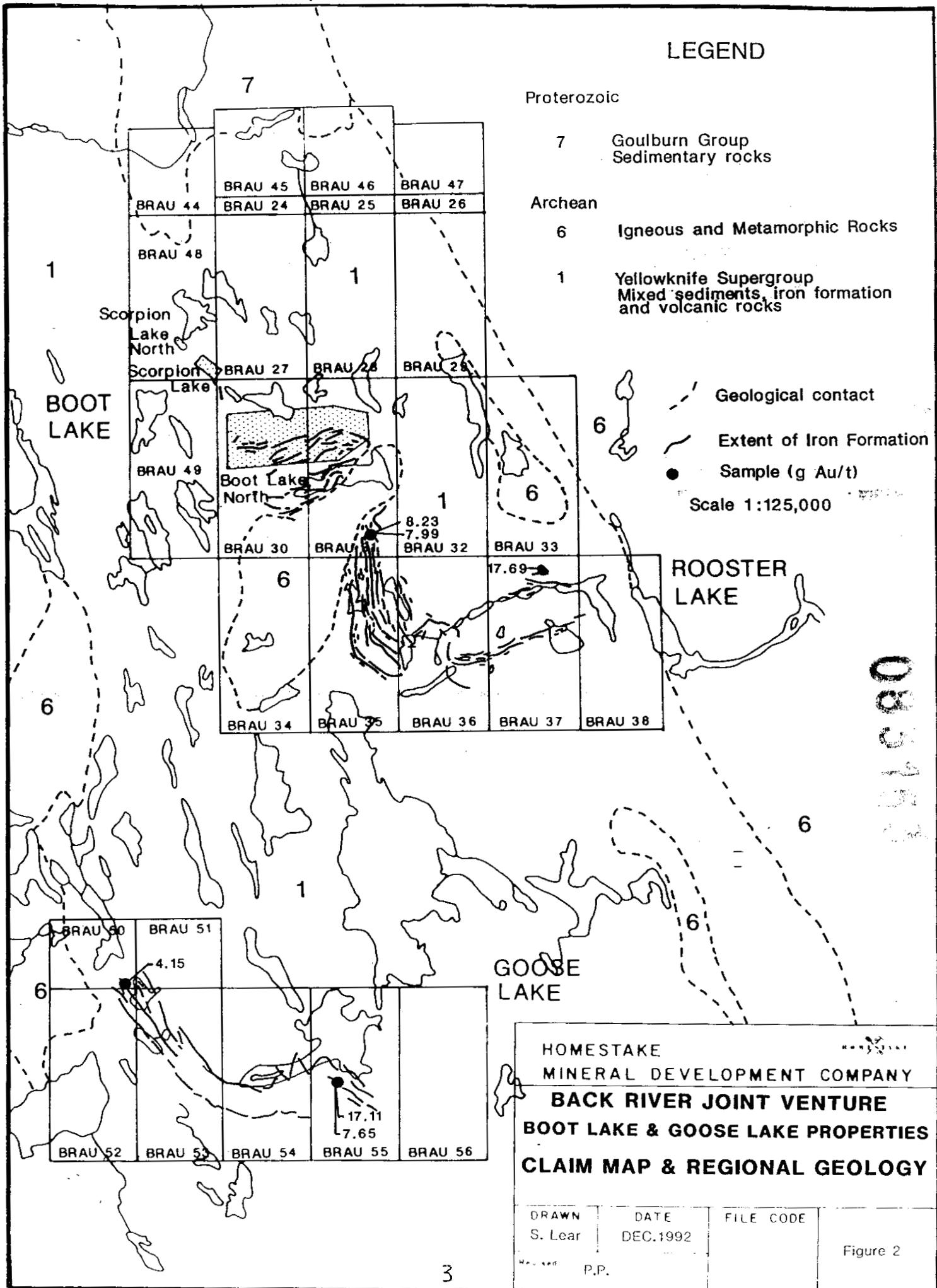
Figure 1 **PROPERTY LOCATION MAP**

25/250

LEGEND

- Proterozoic
 - 7 Goulburn Group Sedimentary rocks
- Archean
 - 6 Igneous and Metamorphic Rocks
 - 1 Yellowknife Supergroup Mixed sediments, iron formation and volcanic rocks

- - - Geological contact
 - - - Extent of Iron Formation
 - Sample (g Au/t)
- Scale 1:125,000



083152

**HOMESTAKE
MINERAL DEVELOPMENT COMPANY
BACK RIVER JOINT VENTURE
BOOT LAKE & GOOSE LAKE PROPERTIES
CLAIM MAP & REGIONAL GEOLOGY**

| | | |
|------------------|------------------|-----------|
| DRAWN S. Lear | DATE DEC.1992 | FILE CODE |
| P.P. | | Figure 2 |

TABLE 1
SUMMARY OF 1992 EXPLORATION
BOOT - ROOSTER - ELLICE AREAS

| LOCATION | | EXPLORATION | | | | | | | | | |
|-----------------------------|---------|-------------------|-------------|---------|-----------|----------------------------------|-------------|-----------|----------------|-------------|-----------------|
| TARGET | CLAIM | GRID (line-km) | GEOLOGIC | MAPPING | SAMPLES | GEOPHYSICAL SURVEYS (line-km) | | DRILLING | | | TILL SAMPLES |
| | | | (ha) | Scale | Rock | Mag | VLF-EM | Holes | Meters | No. Samples | |
| HAMMER LAKE | BRAU 38 | 2.6 | 10 | 1:2000 | 13,grid | 2.68 | 2.28 | 7 | 765.96 | 94 | 13 |
| | | | | | 11,recce | | | | | | |
| | BRAU 37 | 2.6 | 10.5 | 1:2000 | 4 | 2.09 | 1.83 | | | | |
| ROOSTER LAKE | BRAU 37 | 2.3 | | | | 2.49 | | 3 | 348.69 | 69 | |
| ROOSTER-FOX | BRAU 37 | 5.09 | 19.9 | 1:2000 | 9 | 5.04 | 4.42 | | | | |
| TROUT LAKE | BRAU 48 | | | | 15 | | | | | | |
| SCORPION LAKE | BRAU 48 | | | | | | | 2 | 196.9 | 33 | |
| CHICK POND | BRAU 30 | | | | | | | 1 | 103.02 | 20 | |
| AYERS | BRAU 30 | | | | 7 | | | 5 | 706.22 | 165 | |
| POISON POND/ AIOMON WEST | BRAU 30 | | | | | | | 4 | 245.05 | 54 | |
| ELLICE | BRAU 47 | | | | 8 | | | | | | |
| | BRAU 26 | | | | 4 | | | | | | |
| | BRAU 25 | | | | 1 | | | | | | |
| TOTAL | | 12.59 | 40.4 | | 72 | 12.3 | 8.53 | 22 | 2365.84 | 435 | 13 |

1.2 Drilling

The 1992 drilling program at Boot Lake consisted of 22 holes totalling 2,365.84 meters. Seven separate target areas were tested, some being follow-up or extensions to the 1991 drilling program. The seven target areas consisted of a cluster of five targets in the area north and west of the Boot Lake camp (BRAU 30 & 48): Scorpion Lake, Chick Pond, Ayers, Poison Pond and Alomon West; and two related targets at the south end of the property (BRAU 37 & 38): Hammer Lake and Rooster Lake. All of the targets contain gold-bearing oxide and/or silicate iron formation. While anomalous results were obtained from all but the Chick Pond area, the best drill intersections in terms of gold grade and true width were obtained at Hammer Lake. Hole 92T019 intersected mineralized oxide iron formation containing 11.01 g Au/tonne over an estimated true width of 10.05 meters true. Drill holes located to extend this mineralization along strike intersected narrow but high-grade gold values. Hole 92T043, planned to intersect beneath hole 92T019, encountered freezing problems and had to be abandoned short of the iron formation.

Results at the complexly folded Ayers target were disappointing in that the better intersections from the 1991 drilling were not extended in 1992. One hole - 92T031, targeted east of the main syncline area, intersected 20.20 g Au/tonne over an estimated true width of 1.73 meters.

2.0 INTRODUCTION

2.1 Property, Location and Access

The Boot Lake property is located approximately 500 kilometers northeast of Yellowknife, Northwest Territories, near the east margin of the Slave structural province and southwest of Bathurst Inlet (Figure 1). Access is currently obtained via float or ski equipped light aircraft to Boot Lake, site of the summer field camp. Tundra-wheeled Twin Otter aircraft can utilize an unimproved esker airstrip during the summer months.

The Back River Joint Venture owns 21 mineral claims at Boot Lake in the North Mining District of the N.W.T. (Figure 2). The contiguous claims have a variety of expiry dates and are all in good standing at this time. One claim, BRAU 34, is in its 60 day notice period as of the date of this report. Representation work from the 1992 field program is being applied to maintain this claim and the rest of the Boot Lake claims in good standing. (Table 2). All of the claims are held in the name of Homestake Mineral Development Company.

2.2 History

The detailed history of exploration on the Boot Lake property has been well documented in a multitude of reports dating from the inception of the Back River Joint Venture (BRJV). The highlights of the past 10 years can be summarized as follows:

- Trigg, Woollett, Olson Consulting Ltd. (TWOCL) initiated a conceptual reconnaissance prospecting program in the Back River region during late 1982. Funding was provided by the Back River Joint Venture, which consisted, at that time, of private business interests in Edmonton (MacLab Enterprises) and Regina (F.W. Hill) and Esso Minerals. Under the terms of the Joint Venture Agreement TWOCL retained operator privileges until initiation of feasibility studies.
- From 1983 to 1990 comprehensive surface mapping, prospecting, geophysical surveys and ground acquisition programs were completed.

- Diamond drilling was conducted in 1985 on the Rooster mineral occurrence. Kerr-McGee Corporation (KMC) acquired the interest of F.W. Hill and became a joint venture partner in 1985. A Dighem airborne magnetic and EM survey was also conducted in 1985 over the entire Boot Lake property.

TABLE 2. BOOT-ROOSTER-ELLICE PROPERTY CLAIM STATUS

| CLAIM | TAG NO. | RECORD DATE | EXPIRY DATE ¹ | ACRES | HECTARES |
|---------|---------|-------------|--------------------------|----------|----------|
| BRAU 24 | F13555 | 14-Oct-86 | 14-Oct-96 | 258.25 | 104.51 |
| BRAU 25 | F13556 | 14-Oct-86 | 14-Oct-96 | 258.25 | 104.51 |
| BRAU 26 | F13557 | 14-Oct-86 | 14-Oct-96 | 258.25 | 104.51 |
| BRAU 27 | F13560 | 14-Oct-86 | 14-Oct-96 | 2,582.50 | 1,045.14 |
| BRAU 28 | F13559 | 14-Oct-86 | 14-Oct-95 | 2,582.50 | 1,045.14 |
| BRAU 29 | F13558 | 14-Oct-86 | 14-Oct-93 | 2,582.50 | 1,045.14 |
| BRAU 30 | F13561 | 14-Oct-86 | 14-Oct-96 | 2,582.50 | 1,045.14 |
| BRAU 31 | F13562 | 14-Oct-86 | 14-Oct-96 | 2,582.50 | 1,045.14 |
| BRAU 32 | F13563 | 14-Oct-86 | 14-Oct-96 | 2,582.50 | 1,045.14 |
| BRAU 33 | F13564 | 14-Oct-86 | 14-Oct-93 | 2,582.50 | 1,045.14 |
| BRAU 34 | F13569 | 14-Oct-86 | 14-Oct-92 | 2,582.50 | 1,045.14 |
| BRAU 35 | F13568 | 14-Oct-86 | 14-Oct-96 | 2,582.50 | 1,045.14 |
| BRAU 36 | F13567 | 14-Oct-86 | 14-Oct-96 | 2,582.50 | 1,045.14 |
| BRAU 37 | F13566 | 14-Oct-86 | 14-Oct-96 | 2,582.50 | 1,045.14 |
| BRAU 38 | F13565 | 14-Oct-86 | 14-Oct-96 | 2,582.50 | 1,045.14 |
| BRAU 44 | F02779 | 08-Oct-87 | 08-Oct-97 | 1,291.25 | 522.57 |
| BRAU 45 | RA00186 | 08-Oct-87 | 08-Oct-96 | 1,549.50 | 627.08 |
| BRAU 46 | RA00184 | 08-Oct-87 | 08-Oct-94 | 1,549.50 | 627.08 |
| BRAU 47 | F02782 | 08-Oct-87 | 08-Oct-95 | 1,033.00 | 418.06 |
| BRAU 48 | F13579 | 08-Oct-87 | 08-Oct-97 | 2,582.50 | 1,045.14 |
| BRAU 49 | F03806 | 08-Oct-87 | 08-Oct-97 | 2,582.50 | 1,045.14 |

¹ Prior to assessment credit applications from 1992 work.

- In 1987 Homestake Mineral Development Company (HMDC) entered into an option to acquire a joint venture interest in the Back River Project.
- In early 1989 Homestake purchased Esso's remaining interest in the Back River Joint Venture.
- In 1991 1,822.41 meters in 20 holes were drilled at six targets at the Boot and Rooster areas.

2.3 Regional and Property Geology

The Boot Lake Property lies within the Slave Structural Province of Archean age (> 2.5 Ga), bordered on the west by the Bear Structural Province and on the east by Churchill Structural Province, both of which are predominantly Aphebian in age (> 1.9 Ga). Principal supracrustal rocks are metasediments and metavolcanics of the Archean Yellowknife Supergroup. These sequences are unconformably overlain by the Goulburn Group of early Proterozoic (Aphebian) age consisting of carbonate and clastic sedimentary sequences. Hudsonian age (1.8 Ga) intrusive rocks and younger diabase dykes, believed part of the Mackenzie dyke swarm of Helikian time (c. 1.2 Ga), commonly cross-cut the older lithologies.

Regional stratigraphic relationships shown in Table 3. have been established by geological mapping efforts of the Geological Survey of Canada (GSC) (Tremblay, 1971; McGlynn, 1977; Frith and Percival, 1978; Frith, 1981; Jefferson, Beaumont-Smith and Lustwerk, 1989; Lambert et al, 1990). The most recent work suggests that the Back and upper members of the Hackett River Groups may be coeval and that younger portions of these Groups may, in part, be coeval with Beechey Lake Group sediments. Within the Back and Beechey Lake Groups three periods of iron formation deposition have been identified. Iron formations present within the Boot Lake area are believed to be stratigraphically equivalent to the uppermost iron formations in the Beechey Lake Group (Chandler et al., 1991).

Metamorphic grade in the Back River region ranges from sub-greenschist to upper amphibolite facies. At least four periods of deformation have affected the rocks of the Yellowknife Supergroup.

Table 3. Generalized Stratigraphy, Back River Region (modified after Frith and Percival, 1978)

| | | |
|--------------------|--|---|
| Aphebian | Goulburn Group | Clastic sediments with interbedded carbonates |
| Unconformity | | |
| Archean Archean | Regan Intrusive Suite Yellowknife Supergroup Beechey Lake Group Hackett River Group Back Group | Granitic to dioritic plutons and dyke equivalents Turbidite sediments, greywacke, mudstone, iron formation Felsic to mafic volcanic flows, tuffs, chemical sediments Felsic to intermediate flows, tuffs and breccia |
| Unconformity | | |
| Archean | Basement Rocks | Granitic gneiss, migmatite |

Within the Boot - Rooster - Ellice property, Beechey Lake Group sedimentary rocks including the oxide iron formations have been deformed into a broad "Z" - shape that extends from Scorpion Lake to Hammer Lake (Figure 2). Intruding this stratigraphy is the large Boot Lake granitic stock located south of Boot Lake (DWG I-P92.001). This intrusion is not believed to be responsible for the "Z" - structure which may have been caused by the interaction of two regional scale fold systems (Williamson et al., 1991).

Also present within the property area are a swarm of north-northwest trending gabbro dykes and numerous felsic to intermediate porphyry dykes. These latter porphyry dykes appear to follow stratigraphic contacts and may also have been deformed with the sediments. As such they are believed part of the Archean Regan Intrusive Suite of Frith.

2.4 Scope of the 1992 Program

The initial program at Boot Lake was designed to follow-up and extend mineralization encountered in the earlier drill programs of 1985 and 1991. In particular, the Ayers, Hammer and Rooster areas were considered priority targets and assigned most of the drilling meterage. Follow-up holes were also planned at Scorpion Lake and several new areas were earmarked for reconnaissance drilling of surface geochemical anomalies. Based on the results of the initial drill holes the Hammer Lake area was assigned even greater importance and Ayers was down-graded. To accommodate additional drill holes at Hammer Lake planned reconnaissance drilling at the Eon gold occurrence and the Eagle and Ellice River iron formations was

deferred.

All of the planned field work was completed during the 1992 field program. In addition, increased prospecting and sampling was carried out over the Trout Lake (Tea Pond) showing area and limited geological mapping and sampling was completed over specific areas of the Ayers, Ellice and Eagle gold-bearing iron formation zones. A limited orientation till sampling survey was also completed over the area down-ice from the Hammer Lake occurrence.

3.0 FIELD PROGRAM PROCEDURES AND RESULTS

3.1 Ground Geophysical Surveys

In July 1992, Covello, Bryan and Associates Ltd. (CBA) of Yellowknife, N.W.T. was contracted to conduct ground geophysical surveys on newly established grids at the Hammer Lake, Rooster Lake and Fox Pond areas. This program was designed to complete gaps in the geophysical coverage between the prior Hammer Lake and Rooster Lake grids and similarly between the Rooster Lake grid and the previous Fox Pond grid. Completion of this work facilitated subsequent geological mapping and sampling and has assisted in the interpretation of cross-cutting structures and correlation of iron formation units between the former grid areas. A small area on the old Rooster detail grid was re-surveyed to confirm previous results where the original survey data had been lost.

The program comprised 12.3 line-km of total field magnetometer survey and 8.5 line-km. of very low frequency electromagnetic (VLF-EM) surveying, all on land. An EDA OMNI PLUS integrated magnetometer/VLF-EM system was employed to take readings at 10m intervals along grid lines spaced 40 to 60m apart. The grids were established about a surveyed baseline by Homestake personnel. VLF-EM readings were obtained from both the Cutler, Maine (24.0 kHz) and Jim Creek, Washington (24.8 kHz) transmitter stations.

A description of the ground geophysical instrumentation and survey methodology is presented in Appendix 1. Details of the survey methodology, instrumentation and results are contained in the summary report prepared by CBA (Johnston, 1992). Highlights of the survey results are presented below.

The surveyed grid is located in an area of moderate topographic relief. Maximum relief is in the order of 50m. Topographic highs reflect outcrop exposure mantled by a thin veneer of subglacial drift or drumlin material. Low lying areas are covered by tracts of subglacial drift with occasional areas of felsenmeer.

3.1.1 Hammer Lake - Rooster Lake Grid

The results of the geophysical surveys at Hammer Lake are depicted on the anomaly summary map of DWG GA-P92(L11).001 and in the CBA report (Johnston, op cit). The total field magnetometer survey located a strong positive anomaly sub-parallel to the baseline, extending from line 6660E to 7320E. This corresponds to the oxide iron formation/sediment package identified during geological mapping. West of line 7040E, the iron formation appears to split into two bands. This pattern may be due to interference from the north-trending gabbro dykes in this area, some of which have a magnetic signature.

Weaker, northerly trending anomalies are most likely also due to cross-cutting gabbroic dykes. CBA has identified two anomalies, D1 and D2. D1 is reported trending from Line 7100E/6200S to Line 6740E/5840S. In fact, Homestake interpretation relative to the mapped geology suggests that this anomaly probably represents three or four distinct gabbroic dykes rather than one dyke as postulated by CBA. Many of the gabbro dykes, particularly in the northeast portion of the grid area, do not have a magnetic response.

No significant VLF-EM conductors were noted.

3.1.2 Rooster Lake - Fox Pond grid

DWG GA-P92(L10).001 shows the contoured total field magnetics relative to the interpreted geology of the area. Two strong positive magnetic anomalies parallel the oxide iron formation packages identified by geological mapping. The northern iron formation show a discontinuous magnetic signature which may be due to facies changes between oxide iron formation and non-magnetic silicate iron formation.

Weaker northwest trending magnetic anomalies are related to cross-cutting gabbro dykes. Geological mapping has shown that many of the dykes do not have a magnetic response. Only two dykes were identified by geophysical methods whereas 8 or 9 distinct dykes are plotted on the geological map.

The VLF-EM survey did not locate any significant bedrock conductors. CBA identified two very weak conductors which are not co-incident with geological contacts or any discernible structure. The cause of these anomalies is not known at present.

3.2 Surface Mapping and Sampling

3.2.1 Hammer Lake - Rooster Lake Grid

A grid totalling 4.76 line-km was established west of the prior existing Hammer Lake grid and extending to the eastern margin of the previous Rooster Lake grid. Grid lines were located 60 metres apart with stations at 20 metre intervals along lines.

Geological mapping and rock sampling at a scale of 1:2,000 (DWG G-P92(L11).001, S-P92(L11).001) was conducted by Homestake personnel. A total of 17 rock samples was collected on the grid (see Appendix 6 for a description of samples). The best exposures on the grid occur on a small hill extending from line 7280E to 7040E. Large angular boulders are common, with some outcrops of gabbro dyke exposed on the crest of the hill. The remainder of the grid is mostly covered by glacial till or esker material with a few areas of felseneer.

A series of north-trending gabbroic dykes cut across a sequence of interbedded iron formation and greywacke dominated sediments of the Beechey Lake Group. The gabbro dykes range from 20 to 30 metres in width and occasionally contain trace disseminated pyrite.

Along the baseline from line 7040E to 7400E is a 30 to 40 metre wide section of interbedded oxide/silicate iron formation, greywacke and felsic dyke. Ground geophysical results indicate that the iron formation continues west of line 7040E although this area is covered by overburden. The iron formation is massive to well-banded, black amphibole-magnetite-grunerite with minor hematite alteration in places. Banding indicates a steep (78-85°) dip to the southwest. Pyrite occurs as stringers and fracture fill comprising up to 30% in places. Arsenopyrite was noted at four locations, associated with quartz veins. Three arsenopyrite-bearing samples from this zone returned anomalous gold values of 9.77, 34.49 and 50.40 g Au/tonne. Two diamond drill holes tested the depth extent of this mineralized zone. Unfortunately, gold values from the drilling were much lower than the numbers from surface sampling, obtaining 6.72 g Au/tonne across 1.19m true width and 5.28 g Au/tonne across 1.41m true width.

Narrow bands of silicate iron formation occur at the northern end of the grid. Pyrite and minor arsenopyrite were noted and sampled in places, although no significant gold values were returned.

Fine needles of arsenopyrite occasionally occur within the felsic dyke which intrudes the oxide iron formation. Rock samples returned values of 0.07 and 0.03 g Au/tonne.

3.2.2 Hammer Lake north extension

One day was spent prospecting and rock sampling north of the old Hammer Lake grid. A total of 11 samples of mineralized iron formation were collected. The highest values (up to 19.47 g Au/tonne) were obtained from a narrow (1-2m wide) oxide iron formation with quartz veins, 2-5% pyrite and trace arsenopyrite located near line 7560E at 5700S.

A band of silicate iron formation was noted extending from line 7280E to 7600E at 5600S to 5500S. Five samples of pyrite ± arsenopyrite-bearing iron formation collected from this area returned values of <2 g Au/tonne.

As noted at the Hammer Grid to the south, the iron formation/sediments are cut by north-trending gabbroic dykes.

3.2.3 Rooster Lake - Fox Pond grid

A new grid was established in early July, 1992, totalling 5.04 line-km extending from the western end of the previous Rooster Grid to Fox Pond. Spacing between grid lines was 60 meters with stations at 20 meter intervals along lines. Geological mapping and rock sampling at a scale of 1:2,000 were completed by Homestake personnel (DWG G-P92(L10).001, S-P92(L10).001). A total of 9 rock samples were collected.

The grid area is dominated by a series of north-trending gabbroic dykes which form prominent ridges. Dykes range from 5 meters to 40 meters wide and cut a west-trending sequence of oxide iron formation, greywacke and mudstone sediments and minor felsic dyke.

There are two distinct packages of interbedded oxide iron formation and greywacke/mudstone. One zone is 20 to 30 meters wide and parallels the baseline. The second package is located near the southeast end of the grid. It thickens to 50 meters in width near line 5440E. Between line 5380E and 5640E the iron formation packages are offset and distorted by closely spaced gabbro dykes. Banding attitudes in the iron formation indicate a southeast dip ranging from 50 to 80°. Outcrop exposures of iron formation are poor to absent west of line 5380E. However, the ground magnetometer survey indicates that these units continue to the west (Johnston, 1992).

The oxide iron formation consists of massive to well banded amphibole-magnetite-grunerite +/- hematite with minor quartz veins. The southern iron formation in particular is often very strongly magnetic. Pyrite occurs as stringers usually comprising 2-5%, but locally up to 20%. Trace arsenopyrite was noted. Seven rock sample were collected from both iron formations. These samples returned assay values ranging from 0.21 to 2.46 g Au/tonne.

North of the baseline is a sequence of predominately greywacke with minor silicate iron formation and a 10 meter wide felsic dyke. Trace pyrite and rare arsenopyrite occur as stringers in the silicate iron formation. Two samples from this area returned values of 0.55 and 0.51 g Au/tonne.

3.2.4 Trout Lake

One day was spent with two field personnel conducting detailed prospecting and rock sampling north of Tea Pond. A total of 18 samples (SL92-026 to SL92-040, 92TC26162-64) were collected (DWG S-P92(E5).001). Previous samples taken by earlier workers were also located. Sample sites and control points on nearby ponds were surveyed using an EDM Total Station instrument.

The iron formation strikes north to northeast from the northern end of Tea Pond and is probably an extension of the iron formation mapped and sampled at Scorpion Lake North. Good exposures of outcrop

and felsenmeer were observed along 300 meters strike length and over an exposed width of 10 to 20 meters. The iron formation is bounded on the east by a sequence of greywacke/mudstone (1a/3c). The area to the west is swampy and covered by overburden. Outliers of the Proterozoic Goulburn Group sediments outcrop approximately 800 meters north of Tea Pond.

Oxide iron formation (unit 2c) with intense quartz veins, chlorite, up to 20% pyrite and 0.5-2% arsenopyrite was traced over a 150 meter strike length. Arsenopyrite occurs as subhedral to euhedral rhombs, often in a black, highly siliceous cherty material. Twelve samples were collected from this zone with 7 samples returning values greater than 10 g Au/tonne.

South of sample SL92-029, the iron formation is a dark green amphibole-rich silicate iron formation (2d) with numerous quartz veins and trace to 2% pyrite. Three rock samples returned values of 9.98, 6.41, and 7.95 g Au/tonne. Bedding/banding attitudes indicate a steep (80-85 degree) dip to the east.

A traverse was also completed south of Tea Pond to try and locate the southern extension of the iron formation. No iron formation was observed as the probable southern strike extent is mostly covered by overburden and swamp. It is postulated that the iron formation continues to the south under Tea Pond and joins up with the iron formation at Scorpion Lake North.

3.2.5 Ayers

Only a brief visit was paid to the Ayers area. Field work consisted of detailed prospecting of the felsenmeer exposure of the synclinally folded oxide iron formation to determine if the mineralization intersected in the 1991 and 1992 drilling extended to the surface. In addition, the strike extent of the oxide iron formation was walked between the site of 1992 drill hole 92T031 at Ayers east, eastward to the vicinity of the Alomon West drilling in hole 92T034.

A total of 7 samples were collected (DWG S-P92(16).001). Samples in the Ayers east area were poorly mineralized and contained only trace amounts of gold. However, between lines 5300E to 5410E/ 5170N four mineralized samples of sulphidized, quartz-veined oxide iron formation were collected. Three of the samples were of felsenmeer and widths of the mineralized zones could not be determined. One sample, SL92072, was obtained from a chip sample of a 20 cm wide band of sulphidic oxide iron formation containing up to 15% pyrite and trace arsenopyrite. This sample assayed 17.76 g Au/tonne. The three mineralized felsenmeer samples assayed 2.64, 4.80 and 5.69 g Au/tonne.

Although the outcrop suggests that the strongly mineralized portions of the iron formation in this area may be narrow, the presence of strongly anomalous well-mineralized iron formation warrants further investigation, including possibly one or two reconnaissance drill holes.

3.2.6 Ellice River

Less than two days were spent at the Ellice iron formation targets and 11 rock samples (SL92-041 to SL92-053) were collected (DWG GA-P92(E8).001, S-P92(E8).001). Five samples of mixed silicate to oxide iron formation (2d/2c) with quartz-chlorite veins and 2-10% pyrite were taken from a previously undetected zone on the northern edge of the north-most iron formation-greywacke contact (lines 5720N to 5925N, 5280E to 5310E). Samples were of float and felsenmeer in a low swampy area. Trace arsenopyrite was noted in one sample. No significant gold values were obtained from this zone.

Elsewhere on the grid area the iron formation at Ellice has been carefully prospected and intensively sampled in the past by TWOCCL personnel. The previous sample which assayed 5.56 g Au/tonne at 5895N/5242E was examined and resampled (SL92047, 1.54 g Au/tonne). There is some fine arsenopyrite

at this location as noted on the map but it occurs very sporadically and is difficult to find. Most of the oxide iron formation in the vicinity contains trace to 5% pyrite with weak to moderate quartz veins. Homestake proposed a drill hole at the beginning of the season to test this target. Based on field examination, this hole is no longer recommended.

The best assay value from previous work is 57.63 g Au/tonne from a sample of oxide iron formation with quartz, pyrite and arsenopyrite at line 5750N/4915E. This sample is from a small rubbly outcrop adjacent to the iron formation/greywacke contact in the vicinity of a fold nose. A small (5cm) cobble of oxide iron formation with 10-15% pyrite was sampled 60 meters west (5817N/4915E) and assayed 45.36g/tonne Au. An attempt was made to trace this zone northwest along strike. Unfortunately, this area is mostly covered by glacial till and no additional mineralized boulders were found. Due to the limited outcrop exposure at this showing, drilling would be required to test this zone as previously recommended.

Previous years' geological mapping at Ellice was quite thoroughly done, although some areas of felsensmeer have not been mapped, mostly in the greywacke/mudstone units. There are also several locations with good banding/bedding attitudes that do not appear on the final maps. Some of these outcrops appear to have been stripped and cleaned in order to see the banding. It is possible that structural measurements were recorded in the field but never plotted on the final map. The large outcrops extending from lines 5840N to 6000N, 5300E to 5210E are mapped as "2c" (oxide iron formation) but they are really interbedded oxide iron formation and greywacke/mudstone. Likewise, the large outcrop southwest of the 57.63 g Au/tonne sample at line 5752N/4920E is predominately greywacke and not "2c" as previously mapped.

3.3 Till Sampling

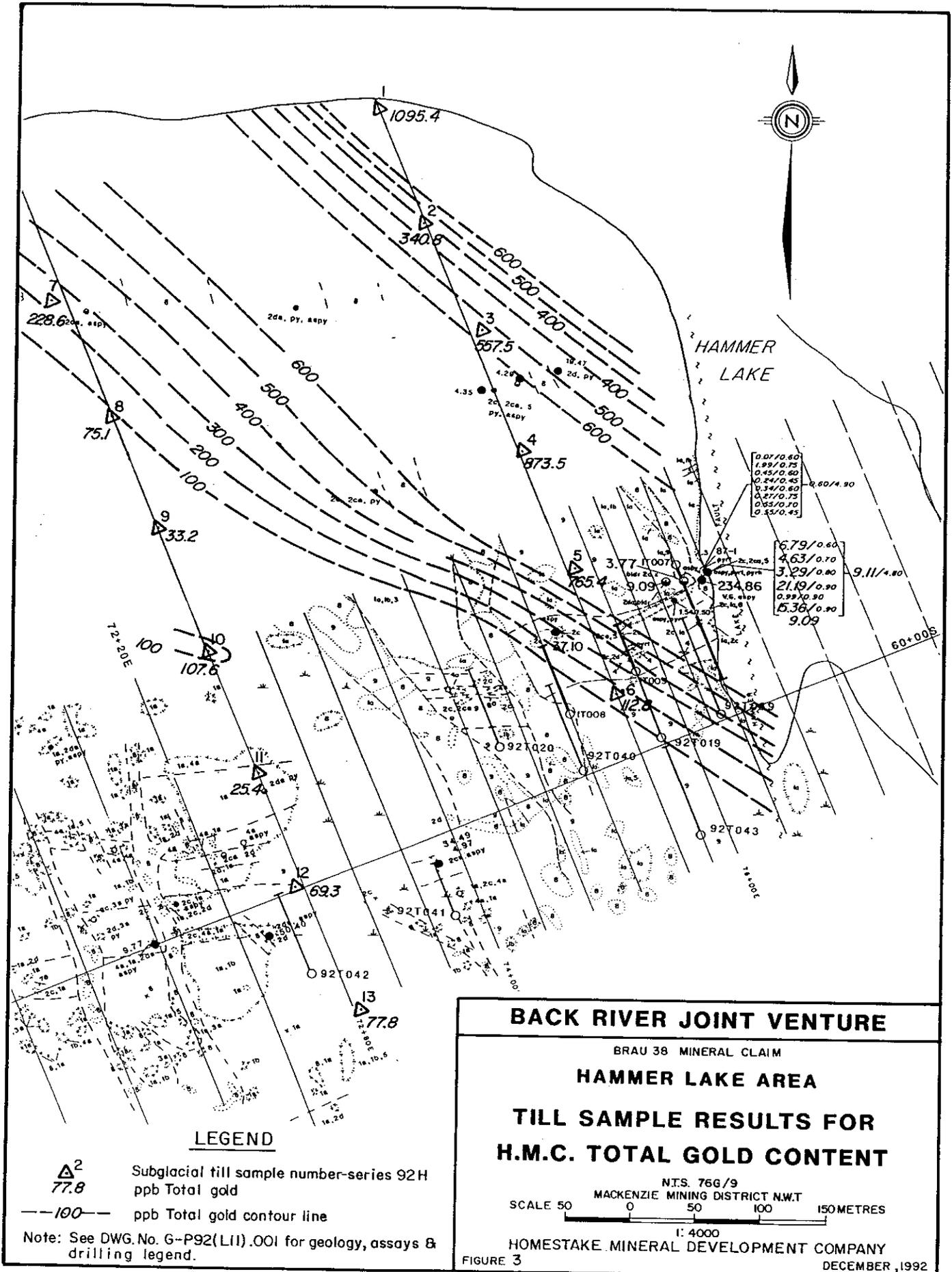
3.3.1 Introduction and surficial geology

An orientation sub-glacial or lodgement till survey was performed on the Boot Lake property at the Hammer Lake grid. The main objective of this survey was to determine the extent and tenor of gold anomalies in till derived from glacial scouring of a known occurrence of gold mineralization in iron formation (Hammer Lake).

The Hammer Lake grid is located west of Hammer Lake and is extensively covered with overburden comprised of subglacial or lodgement till with subordinate amounts of esker material. Bedrock is exposed over approximately 10 percent of the grid area. The maximum thickness of overburden encountered in the area of the till survey is more than 3m based on drill hole information. Two principal ice flow directions have been determined from glacial striae. The dominant ice flow direction is 310 degrees to the northwest while an earlier ice flow direction has an azimuth of about 340 degrees. Direction(s) of glacial till dispersion has not been identified.

3.3.2 Orientation till sampling results

The till sampling was performed at about 100m intervals along two lines spaced 280m apart at the Hammer Lake grid. A total of 13 till samples were collected from frost boils over, down-ice and up-ice of the Hammer Lake occurrence. For each sample, a nonmagnetic heavy mineral fraction was prepared and analyzed for gold content, visible gold grain count and description of the gold grains. A description of the sample preparation and analyses as well as the data processing methodology is presented in Appendix 1. The processed data are shown on contour plans (Figures 3 - 5). Results partially define an anomaly extending down-ice for over 500m to the northwest of the Hammer Lake occurrence. The sample line spacing appears to be inadequate and the survey area was not extensive enough to more precisely define an indicator train. Preliminary interpretation suggests that the indicated gold-bearing till anomaly is related to the glacial erosion of the Hammer Lake gold-bearing zone and, possibly, to a narrow mineralized zone occurring between samples 92H003 and 92H004; particularly when plotted as total gold content of the nonmagnetic heavy mineral fraction for each sample (Figure 3).



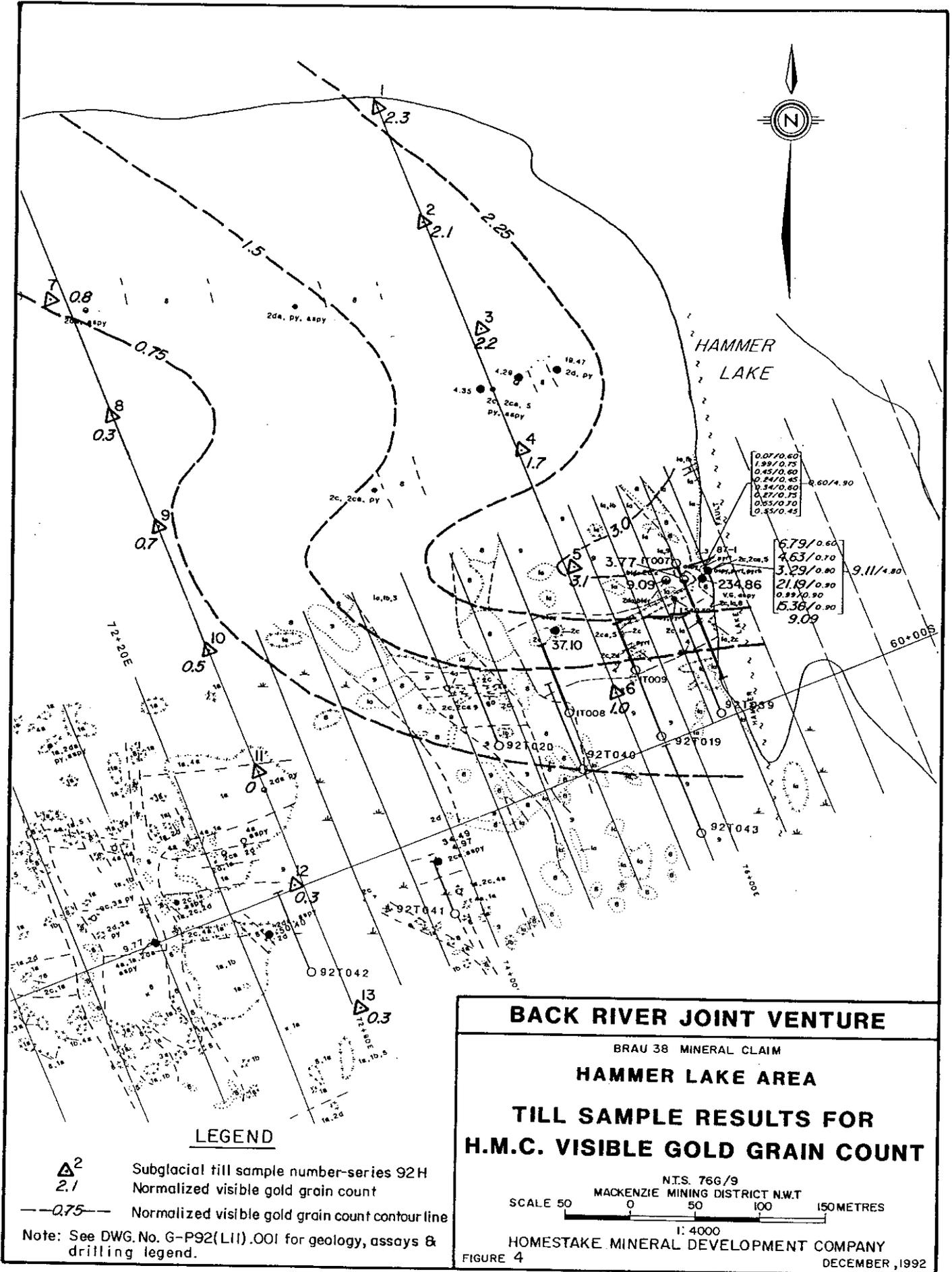
LEGEND

△²
77.8

Subglacial till sample number-series 92H
ppb Total gold

---100--- ppb Total gold contour line

Note: See DWG. No. G-P92(LII).001 for geology, assays & drilling legend.



LEGEND

- Δ^2 Subglacial till sample number-series 92H
- Δ^1 Normalized visible gold grain count
- - - 0.75 - - - Normalized visible gold grain count contour line

Note: See DWG. No. G-P92(LII).001 for geology, assays & drilling legend.

BACK RIVER JOINT VENTURE

BRAU 38 MINERAL CLAIM

HAMMER LAKE AREA

**TILL SAMPLE RESULTS FOR
H.M.C. VISIBLE GOLD GRAIN COUNT**

NTS. 766/9
MACKENZIE MINING DISTRICT N.W.T.

SCALE 50 0 50 100 150 METRES

1:4000

HOMESTAKE MINERAL DEVELOPMENT COMPANY

FIGURE 4

DECEMBER, 1992

3.4 Drilling

3.4.1 Introduction and scope

During the period between July 9 and August 8, 1992, a total of 2,365.84 meters in 22 holes was drilled in seven areas at Boot Lake (Table 2).

At Hammer Lake 765.96 meters in 7 holes were drilled to follow up encouraging results obtained from the 1991 drill program (Williamson et al., 1991), positive results from initial 1992 drilling and anomalous surface samples collected in 1992. At the Rooster occurrence, 348.69 meters in 3 holes were drilled to expand on previous mineralization intersected in the 1985 drill program.

Located near the northwest corner of the Boot Lake property is the Scorpion Lake occurrence. Drilling in 1992 attempted to extend some encouraging mineralization intersected in the 1991 drilling program. Two holes totalling 196.90 meters were drilled beneath and as a strike step-out from the 1991 holes. To the south, at Chick Pond, a single 103.02 meter hole was drilled below a 14.85 g Au/tonne surface grab sample in oxide iron formation.

At the Ayers occurrence area 706.22 meters were drilled in 5 holes in an attempt to extend several wide gold-bearing zones identified in the 1991 drill program. To the east, at Poison Pond and Aiomon West, 245.05 meters in 4 holes was completed to test surface geophysical and geochemical anomalies.

3.4.2 Survey and logging practice

Surface surveys

Level surveying, along with the surveying of diamond drill hole collars and baseline tie points, was performed utilizing a total station survey instrument. The level surveying was conducted on grid lines to provide data for the construction of topographic profiles on geological cross-sections where diamond drilling occurred during 1992. Drill hole collar surveys established the precise coordinates and elevation of each drill hole in the 1992 program.

Downhole surveys

All holes drilled on the property in 1992, except for holes 92T022 and 92T023, were surveyed down the hole with Rotodip instruments for inclination deviation. Readings were taken at about 30m intervals. No azimuth deviation surveys were performed. The exception holes were downhole surveyed by the use of acid tests.

Geological and geotechnical logging

a) Geological logging system

The 1992 core logging system is basically the same procedure used in previous years by the Back River and George Lake Joint Ventures (Appendix 1). The format of the drill logs serves to maintain consistency, partially enforced by the use of the Blacklog logging software system. A standardized lithologic classification has been developed over the years with specific unit descriptions defined as detailed in Appendix 2. Experience has shown that the sediments within the Beechey Lake basin tend to conform closely to these field descriptions within the stratigraphic package encompassing the gold-bearing iron formations. Adoption of the standardized descriptions has reduced redundancy in the logs and improved core-logging accuracy. Deviations from the standard units were noted and described in detail in the logs. All core except for assay sample splits and specimens is stored at the Boot Lake camp.

b) Geotechnical logs

Geotechnical data was collected routinely during core logging. Core recovery and rock quality designation (RQD) (Appendix 1) were measured, tabulated and appended to the geologic logs (Appendix 4). In general RQD values are high, usually greater than 70% and core recovery uniformly approached 100%.

Additional comments were captured on each geotechnical data sheet to record faults, lost core or other descriptive notes.

Photographs were taken of all iron formation intersections and of immediately adjacent wallrocks (Appendix 1). These are retained on file in Homestake's office.

c) Sample assaying

A total of 435 core samples were shipped to Bondar-Clegg in Vancouver for one assay ton (1AT) gold fire assay with atomic absorption (AA) finish. Samples exceeding certain threshold values or exhibiting erratic assay results were re-assayed with a gravimetric finish. These assay values are tabulated in the assay certificates of Appendix 5 and listed with the down hole geological log information in Appendix 4.

3.4.3 Results

Hammer Lake

A total of 765.96 meters in 7 holes was completed on the Hammer grid (DWG G-P92(L11).001 and DWG GA-P92(L11).001). All holes reached their target depth except hole 92T043 which was abandoned at 145.69 meters due to freezing of the drill rods in the hole.

Drilling has shown that the stratigraphy at Hammer consists of oxide iron formation and variable amounts of interbedded greywacke and mudstone that is contained within a thick assemblage of greywacke and mudstone. The iron formation of interest and the enclosing sediments strike west-southwest and dip to the south at 70 to 85 degrees. Graded bed facing observations from both above and below the iron formation indicate that stratigraphic tops face to the north.

Felsic dykes that range from less than 1 meter to 5 meters wide cut the stratigraphy at shallow angles and are primarily oriented parallel to the stratigraphic contacts. Gabbro dykes in the grid area strike to the north, near perpendicular to the sedimentary units, and appear to have near vertical dips.

Brittle fault zones (BFZ) are also present within the sequence. For the most part these appear to be oriented parallel to stratigraphic contacts. Their frequency of occurrence increase towards the east approaching Hammer Lake, presumably due to the proximity with the suspected major north-south fault which runs up Hammer Lake and terminates the iron formation.

Six holes drilled at Hammer in 1992 intersected sulphide- and gold-bearing zones that are situated at or near both the south and north margins of the oxide iron formation. This confirms the results obtained during the 1991 drill program (Williamson et al., 1991). Hole 92T019, which was drilled 60 meters below hole 91T009 on section 7580E (DWG G-92R7580.001) intersected a wide sulphide-bearing zone located within the south margin of the iron formation. This intersection assayed 11.01 g Au/tonne across 10.05 meters true width (DWG R-92R-1.001 and DWG R-92R-1.001). Hole 92T043, planned to intersect the iron formation and down dip extent of the mineralization at a depth of 120 meters below hole 92T019 (210 meters below surface) was abandoned before encountering the target due to freezing of the rods.

Hole 92T020, drilled on section 7460E (DWG G-92R7460.001), intersected a narrow mineralized zone within the north margin of the iron formation that assayed 4.60 g Au/tonne across 1.48 meters true width. Hole 92T039, drilled 60 meters below hole 91T007 on section 7640E (DWG G-92R7640.001), intersected a wide sulphide-bearing zone in the north margin of the iron formation that assayed 18.14 g Au /tonne across 0.85 meters true width.

Hole 92T040, drilled 60 meters below hole 91T008 on section 7520E (DWG G-92R7520.001), intersected a narrow zone located on the north margin that assayed 27.43 g Au/tonne across 0.96 meters true width. The south margin of the iron formation was not intersected as a 40 meter wide gabbro dyke is present in this area.

Holes 92T041 and 92T042 were drilled on sections 7380E and 7260E respectively (DWG G-92R7380.001 and DWG G-92R7260.001) to test for gold-bearing oxide iron formation at 30 meters below surface. Surface mapping and sampling had identified gold-bearing iron formation (34.49 g Au/tonne grab sample) in this southerly offset continuation of the Hammer occurrence. Hole 92T041 intersected two gold-bearing zones on the north margin that assayed 6.24 g Au/tonne across 0.91 meters true width and 4.90 g Au/tonne across 2.28 meters true width. Hole 92T042 intersected a narrow zone also on the north margin that assayed 5.28 g Au/tonne across 1.41 meters true width.

Rooster Lake

A total of 348.69 meters in 3 holes was completed on the Rooster occurrence (DWG G-P92(L10).001 and DWG GA-P92(L10).001). These holes were designed to follow-up wide intersections of gold-bearing mineralized iron formation encountered in the previous 1985 drill program. In particular, the drilling was designed to evaluate the most northerly band of the two east-west trending oxide iron formations at Rooster Lake. This northern sequence is traceable through the 1992 and prior years' ground magnetometer surveys from Rooster Lake east to the Hammer Lake gold occurrence, discussed above.

The geology at Rooster Lake is similar to that discussed for Hammer Lake. Stratigraphy of the iron formations is very similar but appears more contorted due to the increased frequency of cross-cutting gabbro dykes.

Hole 92T021, drilled on section 5780E (DWG G-92R5780.001) 60 meters below hole 85B024 (DWG R-92R-2.001 and DWG R-92R-2.002), intersected a 5.5 meter wide quartz vein located on the north margin of the oxide iron formation that assayed 7.07 g Au/tonne across 1.04 meters true width.

Hole 92T022, drilled on section 5860E (DWG G-92R5860.001), 60 meters below 85B023, intersected two sulphide-bearing zones near the south and north margins that assayed 5.47 g Au/tonne across 5.59 meters true width and 12.62 g Au/tonne across 1.16 meters true width respectively.

Hole 92T023, drilled on section 5980E (DWG G-92R5980.001) to test the eastern extent of the two zones intersected in hole 85B023, intersected a narrow zone that assayed 6.43 g Au/tonne across 0.89 meters true width.

The compilation of the 1992 and 1985 drilling on the longitudinal section (DWG R-92R-2.001,002) suggests that the better grades and widths of the gold-bearing mineralization may be restricted in area and have a steep rake in the plane of the iron formation. Further drilling would be required to test this possibility.

Scorpion Lake

A total of 196.90 meters in 2 holes was completed at the Scorpion Lake occurrence (DWG G-P92(L10).001 and DWG GA-P92(L10).001).

The sedimentary rocks at Scorpion Lake comprise a northwest striking, 75 degrees southwest dipping sequence of greywacke, oxide iron formation, mudstone and felsic dykes that are locally cut by gabbro dykes (Williamson et al, 1991). Graded bed facing observations in the drill core indicate that the iron formation is part of an isoclinally folded syncline.

Drilling results from 1991 and 1992 show that the sulphide- and gold-bearing zones occur along the west and east margins of the oxide iron formation. Hole 92T024, drilled 60 meters below 91T010 on section 5210N (DWG G-92S5210.001), intersected two zones located on the west and east margins of the iron formation that assayed 6.79 g Au/tonne across 1.07 meters true width and 7.70 g Au/tonne across 2.90 meters true width respectively. Hole 92T025 drilled on section 5150N (DWG G-92S5150.001) to test the south extension of the zones intersected on section 5210N, returned assays of 2.41 g Au/tonne across 2.02 meters true width and 6.55 g Au/tonne across 1.26 meters true width respectively.

Results from the drilling at Scorpion Lake in both 1991 and 1992 have demonstrated both lateral and down dip continuity to mineralization, although the grades and widths intersected to date have been sub-economic in tenor. No plausible source was intersected for the strong HLEM anomaly located at the south end of the Scorpion Lake occurrence.

Chick Pond

Hole 92T026, 103.02 meters in length, was drilled on section 4240N (DWG G-92S4240.001) to test for gold-bearing mineralization in oxide iron formation beneath a surface grab sample that assayed 14.85 g Au/tonne (DWG GA-P92(I5).001). This hole was drilled at an azimuth of 237 degrees and a dip of 45 degrees to intersect what was originally thought to be a near vertical oxide iron formation unit at 30 meters below surface. The hole intersected a sequence of interbedded oxide iron formation and mudstone units. Based on the repetition of units and the very shallow banding/bedding to core axis angles, it appears that the iron formation is gently folded and dips to the west at 50 to 60 degrees. This would indicate that the sedimentary units intersected at the bottom of the hole may be interbeds within the iron formation and that the west margin of this unit may not have been tested.

Ayers

A total of 706.22 meters in 5 holes was drilled at the Ayers occurrence (DWG G-P92(I6A).001). Three were drilled on the Ayers grid while two were drilled on the Boot grid. The sedimentary rocks at Ayers comprise a southeast striking, overturned sequence of greywacke, iron formation and lesser amounts of mudstone and felsic volcanics that dip 80 degrees southwest. Graded bedding in the core indicates this sequence has been isoclinally folded into a steeply southeast plunging F2 syncline. This structure has been subsequently refolded and deformed by F3 folds oriented north-northwest. Northwest of line A360NW, the F2 syncline is least deformed by the F3 cross folding. Southeast of line A360NW bedding reversals are present and the F2 syncline has been strongly deformed by the F3 fold event (Williamson et al., 1991).

The deformation and folding at Ayers has been discussed at length by Williamson (1991) and the reader is referred to that report for further details.

Hole 92T027 was drilled 60 meters below 91T013 on section A360NW (DWG G-92A360.001). The hole was designed to test for the presence of a northwest extension of a gold-bearing zone intersected on the south limb of the iron formation on section A330NW in 1991 (DWG R-92A-1.001 and DWG R-92A-1.002). It intersected a zone that assayed 5.19 g Au/tonne across 2.10 meters true width.

Hole 92T028, drilled 60 meters below 91T012 on section A330NW (DWG G-92A330.001) to test the down dip extension of a gold-bearing zone located in that hole (DWG R-92A-1.001 and DWG R-92A-1.002), intersected a narrow zone that assayed 7.68 g Au/tonne across 0.91 meters true width.

Hole 92T029, drilled 60 meters below 91T005 on section A300NW (DWG G-92A300.001) to test the down dip extension of a gold-bearing zone, located in the north limb of the iron formation (DWG R-92A-2.001 and DWG R-92A-2.002), intersected a narrow zone that assayed less than 0.10 g Au/tonne.

Hole 92T030 was drilled on section 5154E (DWG G-92B5154.001) on the Boot grid co-ordinate system approximately 90 meters east of hole 92T029. This hole was to test the strike extension of a gold-bearing zone located on the north limb in hole 91T005 (DWG R-92A-2.001 and DWG R-92A-2.002). Unfortunately, only a narrow zone was intersected that assayed 2.89 g Au/tonne across 0.82 meters true width.

Hole 92T031 was drilled on section 5220E (DWG G-92B5220.001), east of a 30 meter wide north trending gabbro dyke, to test for gold-bearing zones in both limbs of the synclinal F2 folded iron formation. This hole encountered two, 6 meter wide, oxide iron formation limbs separated by a 10 meter wide core of greywacke and mudstone. A sulphide- and gold-bearing zone was intersected in the south limb of the structure that assayed 20.20 g Au/t across 1.73 meters true width (DWG R-92A-1.001 and DWG R-92A-1.002).

Overall the results of the 1992 drilling at Ayers were deemed disappointing. Based on the 1991 and 1992 drill data presented in the longitudinal sections the previous high-grade intersections do not appear to have any significant lateral or down-dip continuity. While the possibility exists that the mineralization may be confined to plunging shoots, the size potential of any such shoots now appears to be severely restricted. The most positive note from the 1992 drilling is the intersection obtained in hole 92T031 on the east side of the gabbro dyke. This high-grade intersection, combined with interesting results from 1992 surface prospecting in the eastern extension of the iron formation, may require additional drilling follow-up.

Poison Pond

A total of 138.37 meters in 2 holes was drilled on this occurrence to test surface geophysical and geochemical anomalies (DWG GA-P92(I6).001).

The stratigraphic sequence at Poison Pond is an east-west trending, south 75 to 80 degree dipping package of iron formation, greywacke and mudstone that appears to be the eastward extension of the Grizzly occurrence. The oxide iron formation at Poison Pond is 30 to 40 meters wide.

Hole 92T032, drilled on section 5540E (DWG G-92B5540.001), intersected a zone on the north margin of the iron formation that assayed 2.35 g Au/tonne across 1.55 meters true width.

Hole 92T033, drilled on section 5600E (DWG G-92B5640.001), to test surface geochemical results of 10.05 g Au/tonne (grab sample) and 5.97 g Au/tonne across 1.20 meters (chip sample), intersected a narrow zone that assayed 0.27 g Au/tonne across 0.50 meters true width.

Aiomon West

A total of 106.68 meters in 2 holes was drilled to test surface geophysical and geochemical anomalies (DWG GA-P92(I6).001).

At Aiomon West the oxide iron formation is 5 to 12 meters wide and is contained in a stratigraphic sequence with greywacke and mudstone that are east-west trending and dip 65 to 75 degrees south. This package appears to be the east extension of the Ayers occurrence.

Both hole 92T034, drilled on section 5540E (DWG G-92B5540.001) and 92T035, drilled on section 5600E (DWG G-92B5640.001), intersected relatively wide sulphide-bearing zones that assayed 11.57 g Au/tonne across 1.66 meters true width and 2.20 g Au/tonne across 3.72 meters true width respectively.

While the above intersection results are relatively narrow, they are encouraging in the light of the positive results obtained at Ayers east.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 General Conclusions

The 1992 drilling results at the Boot Lake property generated mixed results. While results downgraded the economic potential of the main Ayers occurrence, the Hammer Lake occurrence yielded reasonably continuous mineralization with indicated potential for very significant grades and widths of gold mineralization as demonstrated by hole 92T019. Results at the Scorpion Lake and Rooster Lake targets extended the mineralization but were unsuccessful in significantly increasing their perceived potential. Reconnaissance drilling at the Poison Pond and Chick Pond areas was unable to duplicate the grade of surface samples over any appreciable width. The Chick Pond zone may have been incompletely tested due to the unexpected shallow west dip of the iron formation. Reconnaissance drilling at the Alomon West target generated good gold grades over somewhat narrow widths. In spite of this the presence of a high grade but narrow zone at Ayers east area in 92T031 suggests that this target area may develop a potential resource, particularly if the iron formation host unit widens at depth.

The Hammer Lake target area remains open for expansion of known mineralization to depth and to the west. Termination of the magnetic anomaly due to a suspected fault to the east may limit eastern strike extension of the zone. Based on the grade-width product contouring of the limited drill pierce points the mineralized system may have a steep plunge.

The Rooster Lake occurrence continues to generate wide intersections of mineralized iron formation but the gold grade has not improved substantially from the 4 to 6 g Au/tonne range encountered in the 1985 drilling. Examination of the grade-width product contours at this target also indicate a possible steep rake to the strongest mineralization, similar to that observed at Hammer Lake.

Continued drilling in 1992 at the Ayers Occurrence failed to intersect any significant extensions to the high grade zones obtained in the 1991 program. Examination of the cross sections and longitudinals does not indicate much scope for expanding the better mineralized zones. It is also possible that, as a result of F3 cross folding, the previous indicated true widths of the mineralization might actually be exaggerated due to oblique intersection angles.

Ground geophysics, especially magnetometer surveys, in the Hammer-Rooster-Fox Pond areas has tied the three occurrences into a unified grid and established that the gold-bearing iron formation of the Hammer occurrence is the same unit that hosts the Rooster showing.

Survey controlled sampling at the Trout Lake area (Tea Pond) located mineralized oxide and silicate iron formation over a minimum strike length of 300 meters and discontinuous width of 20 to 30 meters. The zone contains seven grab samples which assay over 10 g Au/tonne. Further work is warranted at this site.

One target area at Ellice River generated additional anomalous gold values in additional sampling. A reconnaissance hole appears warranted at this target. The second target area has been down-graded to a lower priority.

4.1.1 General recommendations

- o No further drilling is recommended at the main Ayers occurrence pending further study of this structure.

- The Hammer Lake zone requires additional drilling to evaluate and expand the known mineralization. A deep hole under hole 92T019 is recommended (target of abandoned hole 92T043) to determine if the high grade wide mineralization persists to depth. If successful, deeper tier holes at 60 meter spacing to east and west are warranted.
- Although narrow, good gold values have been intersected at Ayers east and Alomon west. Surface prospecting in the area between these targets located several mineralized samples with gold values up to 17.76 g Au/tonne. One or two reconnaissance holes in this target area may be warranted to determine if the width of the high grade mineralization can be improved.
- Numerous gold-bearing zones in both oxide and silicate facies iron formation exist in the Boot east area (Cumquat sheet). Reconnaissance test drilling of one or several of these targets is recommended if a light rig is in the area.
- A control grid and magnetometer/VLF-EM surveys should be carried out over the Tea Pond occurrence, followed by geological mapping. Surface hand trenching and exposure of the most accessible mineralization in outcrop is recommended to determine the nominal width of the mineralized iron formation. One or two shallow drill holes may be required if the zone continues to look encouraging.
- One or two drill holes are recommended at the Ellice River north iron formation and/or the Eagle occurrence. This work will assist in the evaluation of further work at these targets and assist with the necessary representation work required on the claims in this area.

4.2 Till Sampling Conclusions

Anomalous gold-bearing till is present in the vicinity of the Hammer Lake occurrence. This gold is primarily attributed to glacial erosion of the gold-bearing mineralization.

Results of the till survey indicate that sampling subglacial or lodgement till as well as determining the gold grain count and assaying the nonmagnetic heavy mineral fraction for gold is a viable exploration method at the Boot Lake property, and may also have application at other properties with extensive drift cover in the Back River region.

Till sample spacing at the Hammer Lake area is not extensive enough to more precisely define an indicator train.

4.2.1 Till sampling recommendations

- Follow-up till sampling is required at the Hammer Lake grid to better define the morphology of the gold-bearing till. Additional detailed sampling on a nominal 100x200m grid and mapping of the surficial geology should be conducted over the Hammer Lake occurrence and the till anomaly extending down-ice northwest to the shore of Hammer Lake and up-ice for about 400m southeast of the showing. These samples should be submitted for heavy mineral gold analysis/gold grain documentation and, possibly, pebble count and fine-fraction geochemical analyses.
- More information is needed concerning the glacial stratigraphy, geochemical and lithological characteristics of the till(s) in addition to glacial transport, dispersal patterns and provenance of the till(s).
- Weights of the various size fractions tabulated in Appendix 3 show about 19g of nonmagnetic heavy mineral fraction can be obtained from the average 6.1 kg till sample. Therefore, during any future

till sampling program at the Boot Lake region a minimum sample weight of 10 kg should be collected to ensure that there is sufficient nonmagnetic heavy mineral fraction weight for a 1 AT fire assay.

5.0 REFERENCES

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6.0 CERTIFICATION

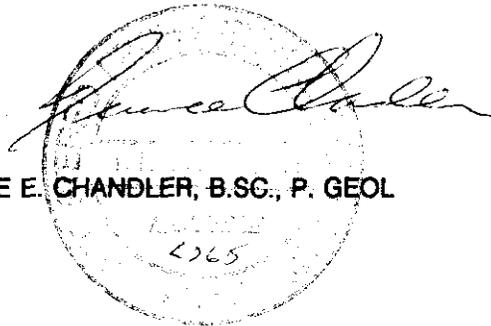
I, TERENCE E. CHANDLER OF 10 SIMON FRASER COURT, PORT MOODY, B.C. CERTIFY AND DECLARE THAT I AM A GRADUATE OF CARLETON UNIVERSITY WITH A B.SC HONOURS DEGREE IN GEOLOGY (1975). I AM CURRENTLY REGISTERED AS A LICENSEE PROFESSIONAL GEOLOGIST WITH THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS OF THE NORTHWEST TERRITORIES.

I HAVE WORKED CONTINUOUSLY AS A MINERAL EXPLORATION GEOLOGIST SINCE 1975 AND I AM PRESENTLY EMPLOYED BY HOMESTAKE CANADA LTD. AS SENIOR GEOLOGIST - SPECIAL PROJECTS WITH RESPONSIBILITY FOR ALL HOMESTAKE PROJECTS IN THE NORTHWEST TERRITORIES, INCLUDING THOSE OPERATED BY HOMESTAKE ON BEHALF OF THE BACK RIVER JOINT VENTURE.

I ACTED AS HOMESTAKE'S SUPERVISORY MANAGER OF THE 1992 GOOSE LAKE AND BOOT LAKE PROJECTS AND I AM PERSONALLY FAMILIAR WITH ALL OF THE WORK WHICH WAS CONDUCTED AND IS DESCRIBED IN THIS REPORT.

DECEMBER, 1992
VANCOUVER, BRITISH COLUMBIA

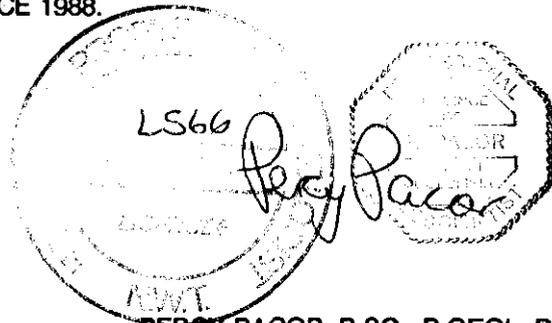
TERENCE E. CHANDLER, B.SC., P. GEOL



I, PERCY PACOR OF 1457 PAISLEY ROAD, NORTH VANCOUVER, B.C., CERTIFY AND DECLARE THAT I AM A GRADUATE OF THE UNIVERSITY OF BRITISH COLUMBIA WITH A B.SC. DEGREE IN GEOLOGY (1978). I AM CURRENTLY REGISTERED AS A LICENSEE PROFESSIONAL GEOLOGIST WITH THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS OF THE NORTHWEST TERRITORIES AND AS A PROFESSIONAL GEOSCIENTISTS WITH THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF BRITISH COLUMBIA.

I HAVE WORKED CONTINUOUSLY AS A MINERAL EXPLORATION GEOLOGIST SINCE 1978 AND I AM PRESENTLY EMPLOYED BY HOMESTAKE CANADA LTD AS PROJECT GEOLOGIST WORKING ON THE BACK RIVER AND GEORGE LAKE JOINT VENTURES.

I HAVE BEEN INVOLVED IN THESE PROJECTS SINCE 1988.



DECEMBER, 1992
VANCOUVER, BRITISH COLUMBIA

PERCY PACOR, B.SC., P.GEOL, P.GEO.

I, ARTHUR L. DE CARLE, OF 5 CAPILANO DRIVE, SASKATOON, SASKATCHEWAN, DECLARE THAT I AM A GRADUATE OF MOUNT ALLISON UNIVERSITY AT SACKVILLE, NEW BRUNSWICK WITH A B.SC. HONOURS DEGREE IN GEOLOGY (1963).

I HAVE BEEN INVOLVED WITH EXPLORATION ACTIVITIES IN THE BACK RIVER REGION SINCE 1989 WITH TRIGG, WOOLLETT, OLSON CONSULTING LTD. AND, SINCE 1991, WITH HOMESTAKE CANADA LTD.

I ACTED IN THE CAPACITY OF PROJECT MANAGER FOR THE 1992 GOOSE LAKE AND BOOT LAKE FIELD PROGRAMS CONDUCTED BY HOMESTAKE ON BEHALF OF THE BACK RIVER JOINT VENTURE. THIS REPORT IS BASED UPON STUDY OF BOTH PUBLISHED AND UNPUBLISHED DATA AND I AM PERSONALLY FAMILIAR WITH ALL OF THE WORK DESCRIBED HEREIN.

DECEMBER, 1992
VANCOUVER, BRITISH COLUMBIA

Arthur L. de Carle
ARTHUR L. DE CARLE, B.SC.

7.0 LIST OF PERSONNEL - 1992

| <u>NAME AND ADDRESS</u> | <u>POSITION</u> | <u>PERIOD IN FIELD</u> | <u>PRORATED MAN-DAYS</u> |
|---|---------------------------------------|--|------------------------------|
| C. Albrecht 4624 - 80 Street N.W. Calgary, Alta | Cook | September 11 - October 10 | 0 |
| D. Armstrong 9922 - 81 Street Fort Saskatchewan, Alta | Camp Manager | July 3 - August 25 September 10 - October 10 | 39 |
| T.E. Chandler 10 Simon Fraser Court Port Moody, B.C. | Senior Geologist, Special Projects | July 4 - July 7 July 24 - July 30 September 22 - October 8 | 10 |
| K. Chilton P.O. Box 2742 Yellowknife, N.W.T. | Cook | July 4 - August 25 | 33 |
| A. de Carle 5 Capilano Drive Saskatoon, Sask. | Project Manager | July 3 - August 26 September 11 - October 10 | 36 |
| R. de Carle 5 Capilano Drive Saskatoon, Sask. | Camp Assistant | July 4 - July 24 | 18 |
| R. Duncan 822 Apex Avenue North Vancouver, B.C. | Camp Assistant | July 4 - July 24 | 18 |
| S. Lear 3391 Garden Drive Vancouver, B.C. | Geologist | July 3 - August 25 | 33 |
| B. McLeod P.O. Box 385 Cobden, Ontario | Geological Asst./ Surveyor | July 4 - August 25 September 10 - October 11 | 39 |
| P. Pacor 1457 Paisley Road North Vancouver, B.C. | Project Geologist | July 4 - August 25 September 15 - October 11 | 37 |

8.0 STATEMENT OF EXPENDITURES - 1992

The 1992 exploration at Boot Lake required a total expenditure of \$488,275 to complete 2,365.84 meters of drilling in 22 holes and a field program consisting of 12.3 line-km of gridding and ground geophysics plus a limited orientation till sampling survey totalling 13 samples. All work was helicopter-supported from the Boot Lake camp. All non-field or property-related costs such as legal fees, property or royalty option payments, organizational fees etc. are not included in the above total expenditures for the purposes of representation work.

The following major cost areas have been derived from a breakdown of the Boot Lake project accounting in 1992. Each activity includes the apportioned costs of helicopter and fixed wing support, camp costs, office costs and salaries:

| | | |
|----|--|------------------|
| 1. | Ground geophysical surveys (Magnetometer/VLF-EM) | \$8,680 |
| 2. | Till sampling and analyses | \$1,740 |
| 3. | Geological mapping, sampling and prospecting | \$2,760 |
| 4. | <u>Diamond drilling and core analyses</u> | <u>\$475,095</u> |
| | TOTAL | \$488,275 |

Based on the distribution of drilling and field work at the Boot Lake property as shown in Table 1 of the report the above costs have been apportioned on a per claim basis prior to grouping and re-allocation of representation work:

| CLAIM | EXPENDITURE |
|---------|-----------------|
| BRAU 25 | \$40 |
| BRAU 26 | \$155 |
| BRAU 30 | \$213,715 |
| BRAU 37 | \$77,320 |
| BRAU 38 | \$156,745 |
| BRAU 47 | \$310 |
| BRAU 48 | <u>\$39,990</u> |
| TOTAL | \$488,275 |

APPENDIX 1
PROCEDURAL METHODOLOGY

APPENDIX I

PROCEDURAL METHODOLOGY

Drilling

Diamond drilling was performed by J.T.Thomas Diamond Drilling Ltd. of Smithers, B.C. using a JT2000 hydraulic diamond drill. The drilling proceeded on a continuous basis using two 12 hour shifts per day. Drill moves, core and personnel transport utilized a Hughes 500D helicopter owned and operated by Great Slave Helicopters of Yellowknife.

Core obtained was BQ in size for all holes drilled. All drill core is presently stored at the Boot Lake campsite.

Drillhole Number Designation

All drill holes were assigned a unique six position alphanumeric code denoting the year, area and sequential number of the drill hole:

| | |
|-------|---------------------------------------|
| eg. | DDH 92T019 |
| where | 92 = the year 1992 |
| | T = the letter code for Boot Lake |
| | 019 = the sequential drillhole number |

Core Logging

Core was logged using a printed log form based on the Corelog program written by T. Sperling for the George Lake and Back River Joint Ventures. Logs were entered into a computer on site and in the Vancouver Office, utilizing the BlackLog program written by R. Black in 1990 on behalf of the George Lake Joint Venture.

All semi-quantitative data was visually estimated for each sample interval by the logging geologist. A single gold occurrence is defined as any 5 cm by 5 cm section of core that contains any number of visible gold grains.

Sampling

All intervals of potentially significant sulphide-bearing iron formation as well as 0.5 meter to 1.5 meter sections of adjacent wallrock were split and sampled. Sample size ranged from 0.4 meter to 1.5 meter in core length. After splitting, one half of the core was retained at the Boot Lake camp as a permanent record, while the other half was shipped to Bondar-Clegg and Company Ltd., North Vancouver, B.C. for gold analysis (Appendix 5).

All samples were assayed by the standard Bondar-Clegg one assay ton (1AT) method, in which a 29.17g sub-sample from a standard 250g, minus 150 mesh pulp was fire assayed and analyzed with an atomic absorption (AA) finish. Samples that assayed 10.29g Au/t or greater were re-assayed using a gravimetric finish. Any sample with 1AT assay results deemed erratic by Bondar-Clegg was also re-assayed gravimetrically. 1AT assay results are presented on the Visual Estimate Report appended to each geological log (Appendix 4).

Geotechnical Data

Core recovery, as noted on the Geotechnical Data Forms appended to the geological logs (Appendix 4) is the percentage of core that is recovered for each core run which is marked by wooden blocks in the core boxes. RQD (rock quality designation) also noted on these forms, is the percentage of core in each run in which the spacing between natural fractures is greater than 10 cm (Stewart, 1990).

Core Photography

Photography was conducted using a 35mm SLR camera with 50mm lens and an attached flash unit. Photographs of the core have been compiled and are on file at Homestake's office.

Till Sampling

A total of 13 lodgement till samples from frost boils were collected in the vicinity of the Hammer Lake deposit. Between about 5.2 and 7.2 kg (wet weight) and average of 6.1 kg of material was collected with a hand shovel at each sample site. Reasonably consistent sample weight was maintained with a fish scale. A standardized form was used to describe each sample. Some of these descriptions, including the sample identifier number, grid location coordinates and depth below surface along with glacial origin, slope wash component, overburden setting, oxidation, compactness and semi-quantitative moisture content are tabulated in Appendix 6.

All samples were sent via air freight to Saskatchewan Research Council (SRC) of Saskatoon, Saskatchewan for sample preparation and analyses. A nonmagnetic heavy mineral fraction prepared for each sample was analyzed for gold content and visible gold grain count/description. These analytical results are presented in Appendix 3. A summary of the sample preparation and analytical methodology is shown on the flow chart at the end of this Appendix 1. SRC reports that the detection limit for gold analyzed by the fire assay - AA technique is 1 ppb.

Analytical data were processed to derive the total gold content, normalized visible gold grain count and average normalized visible gold grain roundness index values of the nonmagnetic mineral fraction for each sample. These processed data were plotted on 1:4,000 scale plans and contoured (Figures 3,4,5). The visible gold grain count and average visible gold grain roundness index values were normalized to a standard total weight of 1 kg for each sample. Moreover, the average visible gold grain roundness index for each sample was derived by applying the following weights to each gold grain microscopic description:

$$D = 5 \quad I/D = 4 \quad I = 3 \quad I/A = 4 \quad A = 5$$

where D = Delicate I = Intermediate A = Abraded

It should be noted that the index system used gives highest scores to the delicate grains. Although termed "Roundness" the index is actually the inverse with the most rounded or abraded grains having the lowest scores.

Ground geophysical surveys

During July 1992, ground total field magnetic, vertical magnetic gradient and very low frequency electromagnetic (VLF-EM) geophysical surveys were performed by Covello, Bryan & Associates Ltd. (CBA) of Yellowknife, N.W.T. at the Boot Lake property on the Hammer Lake - Rooster Lake and Rooster Lake - Fox pond grids. Geophysical readings were collected at 10m intervals along lines spaced 60m apart. In one area of re-surveying on the older detailed Rooster grid readings were taken at 10 m intervals along lines

spaced 40 m apart. The ground magnetic and VLF-EM surveys were conducted simultaneously using an EDA OMNI PLUS integrated proton precession magnetometer/VLF-EM system. Measurements were obtained by the use of two sensors; a proton precession sensor carried on a 3m pole to measure the magnitude of the total magnetic field independent of its direction along with a three component sensor consisting of two mutually orthogonal receiver coils worn on the operators back to determine the magnetic component of the VLF secondary field. In addition, probes attached through the VLF circuitry housing are used to measure three electric components of the VLF secondary field from the primary field generated by up to three transmitting stations. The operator wears an electronics console that allows the viewing and storage of the collected data in internally protected memory. On a daily field basis each total field magnetic reading was corrected for diurnal magnetic variation and VLF primary field fluctuation by interfacing the field console with an EDA OMNI IV base station recorder located at the Boot Lake. The base station systematically reads and stored total magnetic field measurements at 15 second intervals. These corrected data were then transferred to a portable microcomputer using two data export formats for processing and printing. The first format produces data which are uncorrected for diurnal variation; the second format produces data that are corrected for diurnal variation prior to editing and processing with GEOSOFT software. The editing entailed removing repeat or unacceptable readings.

The edited magnetic data have been posted and contoured per Homestake's input to reflect the underlying magnetic fabric associated with the oxide iron formation. Magnetic anomalies discussed in the report prepared by CBA (Johnston, 1992) have been appropriately labelled on the 1:2000 scale total field magnetic contour plan. This latter plan and the surface bedrock geology data were utilized to construct magnetic contours on the final maps entitled "Anomaly Summary and Geology" [DWG GA-P92(L10 and L11).001].

Values for the total horizontal field strength, quadrature and in-phase components of the VLF electromagnetic field were measured and stored by the EDA OMNI PLUS instrument during the ground geophysical survey. These values were later transferred to a portable microcomputer using the same procedure as described for the magnetometer survey. The VLF-EM field was measured using the Cutler, Maine and Jim Creek, Washington transmitter stations operating at a radio frequency of 24.0 kHz and 24.8 kHz, respectively. In-phase and quadrature components of the VLF secondary field were plotted as profiles on separate maps for the Cutler and Jim Creek results with a horizontal scale of 1:2000 using the GEOSOFT software. Conductor axes and identifiers have been defined on the VLF profile map for only the Cutler results.

Computer Procedures – 1992 Season

Diamond Drill Logs

Diamond Drill Logs were entered using the BlackLog program, version 1.0. Logs were proof-read and corrected by geologists in the field. Assay data was merged into the logs directly from computer files received from Bondar-Clegg.

Computer Generated Sections

"Borfix" files were exported from BlackLog and used to import all drill hole data, including holes drilled prior to 1992, into the Borsurv computer program. Structural measurements and revisions to the lithologic description were compiled by Homestake geologists and were input directly into the Borsurv data base.

A 30 meter wide window, 15 meters north and 15 meters south of the section line, was used to generate cross sections.

An extra column was added to the Borfix files (located to the immediate left of the lithology column) which

is used by Borsurv to plot graphic symbols. The table below lists the codes and their lithologic equivalents.

Geological cross-sections were created using the Borsurv "Sectplot" feature. The following table was entered under "Plot Geology, Graphic Symbols":

| Lithologic Equivalent | "LITHO NAME" | "SYMBOL NO" | "PEN NO" | Plot Colour | ACAD Colour |
|-----------------------|--------------|-------------|----------|-------------|-------------|
| 8 | 8 | 11 | 1 | black | 6 |
| 4v | 4v | 8 | 1 | black | 3 |
| 5,5c,5b | 5 | 7 | 3 | blue | 5 |
| 2ca,2da | 2a | 5 | 5 | red | 1 |
| 4a,4b,4c | 4 | 10 | 4 | black | 2 |
| 3a,3b,3c | 3 | 1 | 6 | brown | 9 |
| 2c,2d,2dc | 2 | 4 | 2 | orange | 13 |
| 1a,1b | 1 | 12 | 1 | black | |
| 5a,5ba,5ca | 5a | 7 | 5 | red | 1 |

The response to the question "Plot symbols + trailing character?", was YES, YES to plot core angles, and a letter size of 210 was selected.

Under the "Plot Assays" section, selections made were as follows: "Bar Graph", Element 1, Scale .2, Cut-off at maximum value YES, Maximum value 10.

DXF files were output from Borsurv and subsequently imported into AutoCad. The pen no. selected in Borsurv translates into different AutoCad layers which were assigned various colours for output. (See above table). Topographic profiles, fault traces, geological contacts, alteration zones, fold axes, surface geology, and grade/width data were all digitized into AutoCad from interpretations made by Homestake geologists.

Longitudinal Sections

Intercept points for mineralized zones were compiled from cross-sections and entered directly into AutoCad.

APPENDIX 2

STANDARD LITHOLOGICAL AND STRUCTURAL DESCRIPTIONS

APPENDIX 2

STANDARD LITHOLOGICAL AND STRUCTURAL DESCRIPTIONS

1a Greywacke

Greywacke is light to dark grey, fine to medium grained, massive to poorly bedded and is weakly foliated. Greywacke contains less than 20 volume % black mudstone interbeds, and less than 10 volume % quartz veins. Interbedded greywacke and mudstone are characterized by alternating beds that range from 1 cm to greater than 5 m in thickness. Contacts between the interbeds can range from sharp to gradational, to contorted.

1b Siliceous Greywacke to Impure Quartzite

Siliceous greywacke to impure quartzite is light grey, ranges from fine to medium grained, and is massive and weakly foliated. Siliceous greywacke to impure quartzite contains less than 20 volume % mudstone and/or greywacke interbeds, and less than 10 volume % quartz veins.

2c Oxide Iron Formation

Oxide iron formation is moderately to well banded and is comprised of magnetite bands, chert bands, and bands of iron silicates such as chlorite, grunerite, hornblende, iron carbonates, and stilpnomelane. Oxide iron formation contains less than 10 volume % mudstone, greywacke, quartz veins or sulphide-bearing iron formation. Bands of magnetite are fine grained and massive, however, disseminated crystals of magnetite are locally present in iron silicate bands. Iron silicates are medium to coarse grained with grunerite and hornblende as needles or radiating clusters of acicular crystals. Garnets of as yet undetermined composition are present.

2ca Sulphide-Bearing Oxide Iron Formation

Sulphide-bearing oxide iron formation contains 2 or greater volume % sulphides such as pyrrhotite, pyrite or arsenopyrite. Sulphide-bearing oxide iron formation commonly contains quartz and /or quartz-carbonate veins with spatially associated green felty chlorite.

2d Silicate Iron Formation

Silicate iron formation is massive to moderately banded and is comprised of grunerite, chlorite, stilpnomelane and chert. Silicate iron formation contains less than 10 volume % mudstone, greywacke, quartz veins or sulphide-bearing iron formation. Iron silicate minerals range from fine to coarse grained with grunerite and hornblende as needles or radiating clusters or acicular crystals. Garnets of as yet undetermined composition are present.

2dc Magnetite-Bearing Silicate Iron Formation

Magnetite-bearing silicate iron formation is similar to silicate iron formation except it contains minor amounts of disseminated magnetite crystals and/or laminae or thin veins of fine grained magnetite.

2dca Sulphide and Magnetite-Bearing Silicate Iron Formation

Sulphide and magnetite-bearing silicate iron formation is similar to magnetite-bearing silicate iron formation except it contains 2 or greater volume % sulphides, such as pyrrhotite, pyrite or arsenopyrite.

3a Phyllitic Mudstone

Phyllitic mudstone is medium to dark grey, ranges from poorly to well bedded and is moderately to extremely foliated. Trace amounts of graphite and pyrite exist along bedding and fracture surfaces. Phyllitic mudstone contains less than 20 volume % greywacke interbeds.

3b Chloritic Mudstone

Chloritic mudstone is light to dark green and contains abundant chlorite. Chloritic mudstone contains few or no greywacke interbeds.

3c Massive Mudstone

Massive mudstone is light grey to black and is unfoliated to weakly foliated. Massive mudstone contains little or no greywacke interbeds.

4 Intrusive Sills, Dykes or Stocks

Intrusive volcanic rocks are light grey to green, fine to medium grained, and equigranular or porphyritic. The intrusive rocks contain variable amounts of quartz, feldspar, amphibole, chlorite, sericite and carbonate. Compositions are as follows: 4a, felsic; 4b, intermediate; 4c, mafic.

4v Volcanic Fragmental Rocks and Volcaniclastic Equivalents

Extrusive volcanic to volcaniclastic rocks are comprised of rhyolitic to dacitic fragments in a fine to medium grained, argillaceous matrix. Fragments contain variable amounts of quartz, feldspar, biotite and/or chlorite. The fragments are subangular to subrounded, and locally elongated and flattened with tails developed. Compositions are as follows: 4va, felsic; 4vb, intermediate.

5 Quartz Vein

Quartz veins are white and massive crystalline. The quartz veins have sharp to irregular contacts and may or may not crosscut banding or bedding.

5a Sulphide-Bearing Quartz Vein

Quartz veins that contain 2 or greater, volume % sulphides, such as arsenopyrite, pyrite or pyrrhotite.

5b Carbonate-Bearing Quartz Veins

Quartz veins that contain 2 or greater, volume % carbonate, such as calcite, dolomite or siderite.

5ba Sulphide-and Carbonate-Bearing Quartz Vein

Carbonate-bearing quartz veins that contain 2 or greater volume % sulphides, such as arsenopyrite, pyrite or pyrrhotite.

5c Siliceous Unit

Siliceous unit is aphanitic to fine grained, light to dark grey or light green and is dominantly composed of quartz. The siliceous unit contains minor amounts of carbonate, chlorite, or amphibole and is commonly crosscut by a stockwork of quartz and quartz-chlorite veins. Locally, this unit may have the textural characteristics of a silicified iron formation, mudstone, greywacke or intrusive rock.

5ca Sulphide-Bearing Siliceous Unit

Siliceous unit that contains, 2 or greater volume % pyrite. Pyrite exists as less than 1 mm to 5 mm blebs or euhedral crystals, as wispy masses, and as 1 mm to 2 mm wide discontinuous veins. Variable amounts of arsenopyrite exist as 1 mm to 2 mm wide subhedral to euhedral crystals.

8 Gabbro Dykes

Gabbroic dykes are light green-grey to brown-grey in colour, are fine- to medium-grained, aphanitic locally and massive to moderately foliated. They are composed of varying amounts of amphibole, plagioclase and biotite.

Brittle Fault(s)

Brittle faults are characterized by broken and rubbly core with fault gouge, graphite and slickenside on fracture surfaces. Locally the rocks can be brecciated.

Ductile Shear Zone(s)

Ductile shear zones in greywacke and/or mudstone are characterized by a strong foliation, disrupted bedding, small scale shear planes, sheared and drag folded quartz veins, sigmoidal quartz veins, and S-C fabric. Within iron formation, ductile shear zones are characterized by disrupted banding and small scale shear planes. Shear fabric in iron formation is difficult to recognize due to the strong annealing produced by hydrothermal activity associated with the abundant quartz veins in these zones.

APPENDIX 3
TILL SAMPLING RESULTS

APPENDIX 3

TILL SAMPLING RESULTS

Notes to accompany SRC Till Sample Analysis data:

1. Total sample and table feed split weights were measured on an "as measured" basis after the contained water was decanted. All other weights were measured on an "oven dry" basis.
2. The atomic absorption (AA) analysis of the heavy mineral concentrate refers only to the non-magnetic fraction and excludes the visible gold grain content.
3. The per cent sand, silt, and clay content of the minus 1.77 mm or 10 mesh table feed was roughly estimated by textural feel to the hand.

APPENDIX 3

COMPILATION OF TILL SAMPLE DESCRIPTIONS

| SAMPLE NUMBER | SAMPLE LOCATION | | SAMPLE DEPTH BELOW SURFACE(m) | | DESCRIPTION OF SAMPLE | | | | | |
|---------------|-----------------|---------|-------------------------------|--------|-----------------------|------------|--------------------|-----------|-------------|----------|
| | SOUTHING | EASTING | TOP | BOTTOM | GLACIAL ORIGIN | SLOPE WASH | OVERBURDEN SETTING | OXIDATION | COMPACTNESS | MOISTURE |
| 92H001 | 54+57 | 75+60 | 0.3 | 0.4 | LT | NIL | FB | WK | P | D |
| 92H002 | 55+53 | 75+60 | 0.4 | 0.6 | LT | NIL | FB | MOD | P | WT |
| 92H003 | 56+48 | 75+70 | 0.2 | 0.3 | LT | NIL | FB | WK | P | M |
| 92H004 | 57+46 | 75+64 | 0.2 | 0.3 | LT | NIL | FB | WK | P | M |
| 92H005 | 58+47 | 75+66 | 0.25 | 0.35 | LT | NIL | FB | WK-MOD | P | M |
| 92H006 | 59+50 | 75+62 | 0.2 | 0.3 | LT | NIL | FB | WK | P | M |
| 92H007 | 55+00 | 72+70 | 0.25 | 0.35 | LT | NIL | FB | WK-MOD | P | M |
| 92H008 | 56+03 | 72+80 | 0.25 | 0.35 | LT | NIL | FB | WK | MOD | D |
| 92H009 | 56+97 | 72+81 | 0.2 | 0.35 | LT | NIL | FB | WK | MOD | M |
| 92H010 | 58+00 | 72+82 | 0.15 | 0.3 | LT | NIL | FB | WK | MOD | D |
| 92H011 | 59+03 | 72+83 | 0.1 | 0.2 | LT | NIL | FB | WK | MOD | M |
| 92H012 | 59+97 | 72+75 | 0.1 | 0.2 | LT | NIL | FB | WK | W | D |
| 92H013 | 61+03 | 72+85 | 0.1 | 0.2 | LT | NIL | FB | WK | MOD | M |

EXPLANATION FOR ABBREVIATIONS

D = DRY
 FB = FROST BOIL
 LT = LODGEMENT TILL

M = MOIST
 MOD = MODERATE
 P = POOR

W = WELL
 WK = WEAK
 WT = WET

REPORT
=====

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [HEAVY MINERALS]

| | 1 SAMPLE WEIGHT IN KG | 2 | 3 % +1.7mm IN TOTAL SAMPLE | 4 % -1.7mm IN TOTAL SAMPLE | 5 +1.7mm WEIGHT IN KG | 6 -1.7mm WEIGHT IN KG (TABLE FEED) | 7 MATRIX %SAND ESTIMATE | 8 MATRIX %SILT ESTIMATE | 9 MATRIX %CLAY ESTIMATE |
|----------|-----------------------|-------|----------------------------|----------------------------|-----------------------|------------------------------------|-------------------------|-------------------------|-------------------------|
| | S.WT | %+1.7 | %-1.7 | +1.7 | -1.7 | %SAND | %SILT | %CLAY | |
| 92H- 001 | 5.75 | 33 | 66 | 1.95 | 3.80 | 75 | 20 | 5 | |
| 92H- 002 | 6.70 | 14 | 85 | 0.95 | 5.75 | 75 | 20 | 5 | |
| 92H- 003 | 5.95 | 20 | 79 | 1.20 | 4.75 | 70 | 25 | 5 | |
| 92H- 004 | 6.40 | 16 | 83 | 1.05 | 5.35 | 75 | 20 | 5 | |
| 92H- 005 | 5.20 | 24 | 75 | 1.25 | 3.95 | 70 | 25 | 5 | |
| 92H- 006 | 5.90 | 26 | 73 | 1.55 | 4.35 | 75 | 20 | 5 | |
| 92H- 007 | 7.20 | 22 | 77 | 1.60 | 5.60 | 75 | 20 | 5 | |
| 92H- 008 | 6.00 | 26 | 73 | 1.60 | 4.40 | 75 | 20 | 5 | |
| 92H- 009 | 5.70 | 18 | 81 | 1.05 | 4.65 | 75 | 20 | 5 | |
| 92H- 010 | 6.15 | 9 | 90 | 0.60 | 5.55 | 75 | 20 | 5 | |
| 92H- 011 | 5.80 | 6 | 93 | 0.40 | 5.40 | 75 | 20 | 5 | |
| 92H- 012 | 6.25 | 16 | 84 | 1.00 | 5.25 | 75 | 20 | 5 | |
| 92H- 013 | 6.55 | 15 | 84 | 1.00 | 5.55 | 75 | 20 | 5 | |

REPORT

=====

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [HEAVY MINERALS]
 1 OVERBURDEN CLASSIFICATION TILL(T), GRAVEL(G), SAND(S), SILT(ST), CLAY(C)
 2 HEAVY MINERALS MAGNETICS IN GRAMS
 3 HEAVY MINERALS NONMAGNETICS IN GRAMS
 4 HEAVY MINERALS TOTAL IN GRAMS (MAG+NONMAG)
 5 VISIBLE GOLD GRAIN COUNT
 6 AU HNO3/HCL AA MICROGRAMS IN HEAVY MINERALS
 7 AU HNO3/HCL AA ppb IN TABLE FEED

| | CLASS | MAG | NONMAG | H.M. | V.G. | AUug | AU ppb |
|----------|-------|-------|--------|-------|------|------|--------|
| 92H- 001 | T | 12.67 | 7.76 | 20.43 | 13 | 5.6 | 1.4 |
| 92H- 002 | T | 6.60 | 14.79 | 21.39 | 14 | 1.9 | 0.3 |
| 92H- 003 | T | 5.22 | 16.61 | 21.83 | 13 | 3.2 | 0.6 |
| 92H- 004 | T | 3.95 | 20.63 | 24.58 | 11 | 10.5 | 1.9 |
| 92H- 005 | T | 6.25 | 13.51 | 19.76 | 16 | 3.0 | 0.7 |
| 92H- 006 | T | 6.07 | 19.33 | 25.40 | 6 | 1.5 | 0.3 |
| 92H- 007 | T | 10.30 | 25.07 | 35.37 | 6 | 3.7 | 0.6 |
| 92H- 008 | T | 6.52 | 13.84 | 20.36 | 2 | 0.8 | 0.1 |
| 92H- 009 | T | 7.25 | 23.48 | 30.73 | 4 | 0.3 | 0.1 |
| 92H- 010 | T | 5.63 | 23.61 | 29.24 | 3 | 2.2 | 0.3 |
| 92H- 011 | T | 0.08 | 15.74 | 15.82 | 0 | 0.4 | 0.1 |
| 92H- 012 | T | 6.04 | 18.76 | 24.80 | 2 | 1.1 | 0.2 |
| 92H- 013 | T | 3.30 | 24.94 | 28.24 | 2 | 1.7 | 0.3 |

REPORT
=====

2.9= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (13) 92H- 001

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| W | L | D |
|-----|-----|---|
| 20 | 60 | I |
| 20 | 40 | I |
| 20 | 20 | A |
| 20 | 40 | A |
| 20 | 20 | I |
| 20 | 20 | A |
| 20 | 40 | I |
| 40 | 40 | I |
| 40 | 40 | A |
| 40 | 40 | D |
| 40 | 60 | I |
| 40 | 60 | I |
| 100 | 100 | A |

REPORT

=====

3.14= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (14) 92H- 002

- 1 GOLD GRAIN WIDTH IN MICRONC
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| | W | L | D |
|--|-----|-----|---|
| | 20 | 40 | I |
| | 20 | 40 | I |
| | 20 | 20 | A |
| | 20 | 20 | A |
| | 20 | 20 | A |
| | 20 | 40 | I |
| | 20 | 20 | A |
| | 20 | 20 | A |
| | 20 | 40 | A |
| | 20 | 40 | I |
| | 40 | 80 | I |
| | 40 | 40 | A |
| | 40 | 40 | A |
| | 100 | 100 | I |

REPORT
=====

6.06= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (13) 92H- 003

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| W | L | D |
|-----|-----|-----|
| 20 | 20 | I/D |
| 20 | 20 | A |
| 20 | 20 | A |
| 20 | 40 | A |
| 20 | 60 | I |
| 20 | 40 | I |
| 40 | 60 | A |
| 40 | 60 | A |
| 40 | 40 | I |
| 40 | 60 | I |
| 60 | 80 | I |
| 80 | 100 | I |
| 100 | 160 | I |

REPORT
=====

7.52= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (11) 92H- 004

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| | W | L | D |
|--|-----|-----|-----|
| | 20 | 80 | I |
| | 40 | 80 | I |
| | 40 | 80 | A |
| | 40 | 60 | A |
| | 60 | 60 | I |
| | 60 | 100 | I |
| | 60 | 60 | I |
| | 60 | 100 | A |
| | 80 | 100 | A |
| | 80 | 100 | I/D |
| | 100 | 140 | A |

REPORT

=====

7.34= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (16) 92H- 005

- 1 GOLD GRAIN WIETH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| | W | L | D |
|--|-----|-----|-----|
| | 20 | 20 | I |
| | 20 | 40 | I |
| | 20 | 40 | I |
| | 20 | 100 | I/D |
| | 40 | 40 | A |
| | 40 | 40 | A |
| | 40 | 40 | I |
| | 40 | 40 | I |
| | 40 | 40 | A |
| | 40 | 40 | A |
| | 60 | 80 | I/D |
| | 60 | 60 | A |
| | 60 | 100 | I/D |
| | 60 | 100 | I |
| | 60 | 100 | I |
| | 100 | 160 | I |

REPORT
=====

.68= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (6) 92H- 006

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| W | L | D |
|----|----|---|
| 20 | 20 | I |
| 20 | 40 | I |
| 20 | 20 | A |
| 40 | 40 | A |
| 40 | 40 | A |
| 40 | 40 | A |

REPORT

=====

2.03= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (6) 92H- 007

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| | W | L | D |
|--|----|-----|---|
| | 20 | 20 | A |
| | 40 | 60 | I |
| | 60 | 80 | A |
| | 60 | 60 | I |
| | 60 | 100 | I |
| | 60 | 60 | A |

REPORT

=====

.24= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (2) 92H- 008

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| W | L | D |
|----|----|---|
| 20 | 20 | A |
| 40 | 40 | I |

REPORT

=====

.48= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (4) 92H- 009

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| | W | L | D |
|--|----|----|---|
| | 20 | 20 | I |
| | 20 | 20 | D |
| | 40 | 40 | D |
| | 40 | 40 | I |

REPORT

=====

.34= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (3) 92H- 010

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| W | L | D |
|----|----|---|
| 20 | 20 | I |
| 40 | 40 | I |
| 40 | 40 | I |

REPORT
=====

.2= ESTIMATED WEIGHT OF Au IN MICROGRAMS

M354 DE CARLE LCMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (2) 92H- 012

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| W | L | D |
|----|----|---|
| 40 | 40 | A |
| 40 | 40 | I |

REPORT
=====

.24= ESTIMATED WEIGHT OF Au IN MICROGRAMS

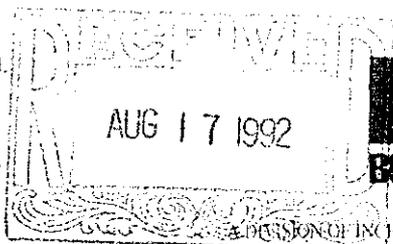
M354 DE CARLE HOMESTAKE SEPT. 15/92 (13) [GOLD GRAIN COUNT] (2) 92H- 013

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

| W | L | D |
|----|----|---|
| 20 | 20 | A |
| 40 | 40 | A |

APPENDIX 5
ASSAY CERTIFICATES

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667



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N IS / EC
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Certificate of Analysis

A DIVISION OF INCORPORATED INSPECTION & TESTING SERVICES

REPORT: V92-00847.4 (COMPLETE)

REFERENCE: SHIPMENT 406

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 4507

SUBMITTED BY: S. WOTTON
DATE PRINTED: 11-AUG 92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------------------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 5 | 0.03 GMT | | FIRE ASSAY |
| 2 | Au Gravimetric Gold | 2 | 0.17 GMT | | |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|---------------------------------|--------|
| R ROCK | 5 | 2 -150 | 5 | CRUSH/SPLIT 10 LB PULVERIZATION | 5 |

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MR. T.E. CHANDLER
MS. SHELLEY LEAR

INVOICE TO: MR. T.E. CHANDLER

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PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT ANALYSIS | As | As |
|---------------|------------------|-------|-------|
| 92 2T031005 | | 0.96 | |
| 92 2T031006 | | 73.33 | 21.29 |
| 92 2T031007 | | 20.10 | 19.41 |
| 92 2T032011 | | 2.79 | |
| 92 2T032012 | | 2.32 | |

Registered Analyst, Province of British Columbia

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PROJECT: 4507

PAGE: 2

| STANDARD NAME | ELEMENT UNITS | As GMF | As GMT |
|--------------------|---------------|--------|--------|
| 1991 AU STD-2 | | 0.14 | - |
| Number of Analyses | | 1 | - |
| Mean Value | | 0.137 | - |
| Standard Deviation | | - | - |
| Accepted Value | | - | - |

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1221215.
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REPORT: V92-00857.A (COMPLETE)

REFERENCE: SHIPMENT #08

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
 PROJECT: 4507

SUBMITTED BY: S. MCLEOD
 DATE PRINTED: 13-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 13 | 0.03 GWT | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|---------------------|--------|
| R ROCK | 1 | 2 -150 | 13 | CRUSH/SPLIT, 10 LB | 13 |
| D DRILL CORE | 12 | | | PULVERIZATION | 13 |

NOTES: ; indicates POSSIBLE FREE GOLD

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DATE PRINTED: 11-AUG-92
 PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | AJ GMT |
|---------------|---------------|--------|
|---------------|---------------|--------|

| | | |
|-------------|--|-------|
| 02 92PP001 | | 34.49 |
| 02 2T033008 | | 0.07 |
| 02 2T033009 | | 0.27 |
| 02 2T034003 | | 1.54 |
| 02 2T034004 | | 10.59 |

| | | |
|-------------|--|-------|
| 02 2T034005 | | 12.96 |
| 02 2T034006 | | 0.07 |
| 02 2T034007 | | 0.24 |
| 02 2T035005 | | 3.57 |
| 02 2T035006 | | 1.65 |

| | | |
|-------------|--|-------|
| 02 2T035007 | | 1.06 |
| 02 2T036010 | | 0.894 |
| 02 2T036012 | | 0.27 |

→ S/B 2T035010
 → 2T035012

2T036010/012 reported also
 on V92-00950.4

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REPORT: V92-00857.4 (COMPLETE)

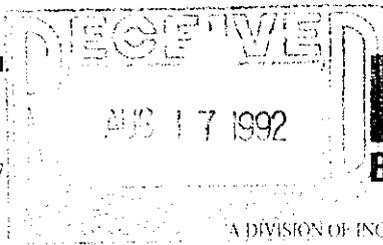
DATE PRINTED: 11-AUG-92

PROJECT: 4507

PAGE 2

| STANDARD NAME | ELEMENT UNITS | Au GMI |
|--------------------|---------------|--------|
| 1991 AU STD-2 | | 0.14 |
| Number of Analyses | | 1 |
| Mean Value | | 0.137 |
| Standard Deviation | | - |
| Accepted Value | | - |

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A DIVISION OF INSTITUTE OF INSPECTION & TESTING SERVICES

REPORT: V92-00059.A (COMPLETE)

REFERENCE: SHIPMENT #97

CLIENT: HONESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 4507

QUANTIFIED BY: G. MOLEDE
DATE PROVIDED: 23-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Ag Gold | 30 | 0.03 GMT | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|---------------------|--------|
| R ROCK | 3 | 2 -150 | 30 | CRUSH/SPLIT <10 LB | 30 |
| D DRILL CORE | 27 | | | PULVERIZATION | 30 |

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MS. SHELLEY LEAR

INVOICE TO: MR. T.E. CHANDLER

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DATE PRINTED: 13-AUG-92

REPORT: V92-00859.3 (COMPLETE)

PROJECT: 1507

PAGE: 1

| SAMPLE NUMBER | ELEMENT UNITS | ANAL |
|---------------|---------------|-------|
| 02 210326152 | | 12.58 |
| 02 210326163 | | 6.86 |
| 02 210326164 | | 11.35 |
| 02 21033001 | | 0.17 |
| 02 21033002 | | <0.03 |
| 02 21033003 | | 0.10 |
| 02 21033004 | | <0.03 |
| 02 21033005 | | <0.03 |
| 02 21033006 | | <0.03 |
| 02 21033007 | | <0.03 |
| 02 21033010 | | <0.03 |
| 02 21033011 | | <0.03 |
| 02 21033012 | | 16.03 |
| 02 21033013 | | <0.03 |
| 02 21033014 | | 0.96 |
| 02 21033015 | | <0.03 |
| 02 21033016 | | 0.62 |
| 02 21033017 | | 0.24 |
| 02 21034001 | | <0.03 |
| 02 21034002 | | 0.31 |
| 02 21034003 | | <0.03 |
| 02 21035001 | | 2.67 |
| 02 21035002 | | 2.34 |
| 02 21035003 | | <0.03 |
| 02 21035004 | | 0.79 |
| 02 21035008 | | 3.27 |
| 02 21035009 | | 1.47 |
| 02 21035011 | | 0.51 |
| 02 21035013 | | 0.79 |
| 02 21035014 | | 0.44 |


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DATE PRINTED: 13-AUG-92

REPORT: V92-00659.4 (COMPLETE)

PROJECT: 1507

PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | AMOUNT |
|-----------------|---------------|--------|
| 21033003 | | 0.19 |
| Duplicate | | 0.19 |
| 21033015 | | <0.03 |
| Presp Duplicate | | 0.07 |
| 21033017 | | 0.24 |
| Duplicate | | 0.27 |
| 21033013 | | 0.79 |
| Duplicate | | 0.51 |

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REPORT: V92-00948.A (COMPLETE)

REFERENCE: SHIPMENT #R3

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 4507

SUBMITTED BY: S. LEAR
DATE PRINTED: 24-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 34 | 0.03 GMT | | FIRE ASSAY |

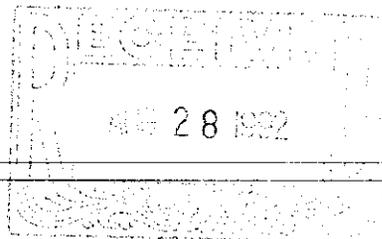
| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|---|----------------|
| R ROCK | 34 | 2 -150 | 34 | CRUSH/SPLIT <10 LB PULVERIZATION DRYING | 34 34 34 |

NOTES: # indicates POSSIBLE FREE GOLD

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.JTS - T. Chandler
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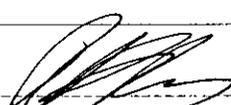
DATE PRINTED: 24-AUG-92

REPORT: V92-00948.4 (COMPLETE)

PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | AU GWT |
|---------------|---------------|--------|
| R2 SL92021 | | 4.97 |
| R2 SL92022 | | <0.03 |
| R2 SL92023 | | 50.40 |
| R2 SL92024 | | 2.30 |
| R2 SL92025 | | <0.03 |
| R2 SL92026 | | 9.98 |
| R2 SL92027 | | 6.41 |
| R2 SL92028 | | 7.95 |
| R2 SL92029 | | 16.63# |
| R2 SL92030 | | 5.49 |
| R2 SL92031 | | 26.67 |
| R2 SL92032 | | 15.09 |
| R2 SL92033 | | 18.51 |
| R2 SL92034 | | 0.45 |
| R2 SL92035 | | 7.44 |
| R2 SL92036 | | 0.38 |
| R2 SL92037 | | 0.07 |
| R2 SL92038 | | 0.07 |
| R2 SL92039 | | 30.45# |
| R2 SL92040 | | <0.03 |
| R2 SL92041 | | <0.03 |
| R2 SL92042 | | <0.03 |
| R2 SL92043 | | <0.03 |
| R2 SL92044 | | <0.03 |
| R2 SL92045 | | <0.03 |
| R2 SL92046 | | 0.65 |
| R2 SL92047 | | 1.54 |
| R2 SL92048 | | 0.27 |
| R2 SL92049 | | 0.10 |
| R2 SL92050 | | 45.36 |
| R2 SL92051 | | 0.07 |
| R2 SL92052 | | 4.15 |
| R2 SL92053 | | 0.07 |
| R2 SL92054 | | 1.64 |


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REPORT: V92-00950.4 (COMPLETE)

REFERENCE: SHIPMENT #010

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
 PROJECT: 4507

SUBMITTED BY: B. MCLEOD
 DATE PRINTED: 24-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 116 | 0.03 GMT | | FIRE ASSAY |

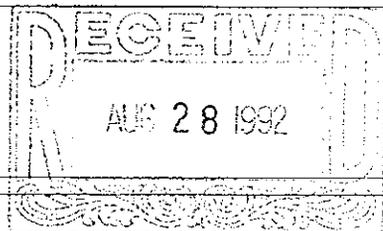
| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|---------------------|--------|
| D DRILL CORE | 116 | 2 -150 | 116 | CRUSH/SPLIT <10 LB | 116 |
| | | | | PULVERIZATION | 116 |
| | | | | DRYING | 20 |
| | | | | REBAG SAMPLE | 15 |

NOTES: ‡ indicates POSSIBLE FREE GOLD

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PROJECT: 4507

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|---------------|---------------|--------|---------------|---------------|--------|
| D2 2T036001 | | 0.07 | D2 2T038002 | | <0.03 |
| D2 2T036002 | | 0.21 | D2 2T038003 | | <0.03 |
| D2 2T036003 | | 0.07 | D2 2T038004 | | 0.07 |
| D2 2T036004 | | 0.07 | D2 2T038005 | | 0.27 |
| D2 2T036005 | | <0.03 | D2 2T038006 | | <0.03 |
| D2 2T036006 | | 0.07 | D2 2T038007 | | 0.17 |
| D2 2T036007 | | <0.03 | D2 2T038008 | | <0.03 |
| D2 2T036008 | | 0.14 | D2 2T038009 | | <0.03 |
| D2 2T036009 | | <0.03 | D2 2T038010 | | 0.07 |
| D2 2T036010 | | 0.07 | D2 2T038011 | | 0.21 |
| D2 2T036011 | | <0.03 | D2 2T038012 | | <0.03 |
| D2 2T036012 | | <0.03 | D2 2T038013 | | <0.03 |
| D2 2T036013 | | 0.21 | D2 2T038014 | | <0.03 |
| D2 2T036014 | | 0.41 | D2 2T038015 | | <0.03 |
| D2 2T036015 | | <0.03 | D2 2T038016 | | 0.27 |
| D2 2T036016 | | <0.03 | D2 2T038017 | | 0.14 |
| D2 2T036017 | | 3.60 | D2 2T038018 | | <0.03 |
| D2 2T036018 | | 0.17 | D2 2T038019 | | 2.86 |
| D2 2T036019 | | 0.69 | D2 2T038020 | | 10.29 |
| D2 2T036020 | | 0.14 | D2 2T038021 | | 7.54 |
| D2 2T036021 | | 0.14 | D2 2T038022 | | 3.60 |
| D2 2T036022 | | 2.47 | D2 2T038023 | | 3.70 |
| D2 2T036023 | | 0.55 | D2 2T038024 | | 0.93 |
| D2 2T036024 | | 0.27 | D2 2T038025 | | 4.15 |
| D2 2T036025 | | <0.03 | D2 2T038026 | | 20.71# |
| D2 2T036026 | | <0.03 | D2 2T038027 | | 48.00# |
| D2 2T036027 | | 0.21 | D2 2T038028 | | 3.87 |
| D2 2T036028 | | 0.07 | D2 2T038029 | | 5.93 |
| D2 2T036029 | | 0.10 | D2 2T038030 | | 1.83 |
| D2 2T036030 | | 0.21 | D2 2T038031 | | 0.24 |
| D2 2T036031 | | 0.96 | D2 2T038032 | | 0.07 |
| D2 2T036032 | | 0.21 | D2 2T038033 | | 3.05# |
| D2 2T036033 | | 1.02 | D2 2T038034 | | 0.45 |
| D2 2T036034 | | 0.89 | D2 2T038035 | | 0.45 |
| D2 2T036035 | | 0.20 | D2 2T038036 | | 1.06 |
| D2 2T036036 | | 1.02 | D2 2T039001 | | <0.03 |
| D2 2T036037 | | 1.90 | D2 2T039002 | | <0.03 |
| D2 2T036038 | | 0.34 | D2 2T039003 | | <0.03 |
| D2 2T036039 | | <0.03 | D2 2T039004 | | <0.03 |
| D2 2T038001 | | <0.03 | D2 2T039005 | | 0.07 |

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DATE PRINTED: 24-AUG-92

REPORT: V92-00950.4 (COMPLETE)

PROJECT: 4507

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|---------------|---------------|--------|---------------|---------------|--------|
| 02 2T039006 | | 3.60 | | | |
| 02 2T039007 | | 4.29# | | | |
| 02 2T039008 | | 3.60 | | | |
| 02 2T039009 | | 3.02 | | | |
| 02 2T039010 | | 0.31 | | | |
| 02 2T039011 | | 18.14# | | | |
| 02 2T039012 | | 0.07 | | | |
| 02 2T039013 | | <0.03 | | | |
| 02 2T040001 | | 0.17 | | | |
| 02 2T040002 | | 0.14 | | | |
| 02 2T040003 | | 0.31 | | | |
| 02 2T040004 | | 1.42 | | | |
| 02 2T040005 | | 3.10 | | | |
| 02 2T040006 | | 0.10 | | | |
| 02 2T040007 | | 27.43 | | | |
| 02 2T040008 | | 2.23 | | | |
| 02 2T040009 | | 0.07 | | | |
| 02 2T041001 | | 0.14 | | | |
| 02 2T041002 | | 0.14 | | | |
| 02 2T041003 | | 0.62 | | | |
| 02 2T041004 | | 0.51 | | | |
| 02 2T041005 | | <0.03 | | | |
| 02 2T041006 | | <0.03 | | | |
| 02 2T041007 | | 6.24 | | | |
| 02 2T041008 | | <0.03 | | | |
| 02 2T041009 | | 0.10 | | | |
| 02 2T041010 | | 3.02# | | | |
| 02 2T041011 | | 6.72# | | | |
| 02 2T041012 | | <0.03 | | | |
| 02 2T041013 | | 1.78 | | | |
| 02 2T042001 | | 0.03 | | | |
| 02 2T042002 | | <0.03 | | | |
| 02 2T042003 | | <0.03 | | | |
| 02 2T042004 | | 0.10 | | | |
| 02 2T042005 | | 5.28# | | | |
| 02 2T042006 | | 0.27 | | | |

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DATE PRINTED: 24-AUG-97

REPORT: V92-00950.4 (COMPLETE)

PROJECT: 4507

PAGE 3

| STANDARD NAME | ELEMENT UNITS | Au GMT | STANDARD NAME | ELEMENT UNITS | Au GMT |
|--------------------|---------------|--------|---------------|---------------|--------|
| AU 0.05 | | 1.78 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 1.783 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 1.71 | | | |
| ANALYTICAL BLANK | | - | | | |
| ANALYTICAL BLANK | | - | | | |
| Number of Analyses | | 2 | | | |
| Mean Value | | 0.017 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 0.03 | | | |
| AU 0.1 | | 3.53 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 3.531 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 3.43 | | | |
| AU91-1 | | 0.07 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 0.069 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | - | | | |
| AU 0.2 | | 7.41 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 7.406 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 6.86 | | | |



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DATE PRINTED: 23-AUG-92

REPORT: V92-00950.4 (COMPLETE)

PROJECT: 4507

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|----------------|---------------|--------|---------------|---------------|--------|
| 2T036006 | | 0.07 | | | |
| Duplicate | | <0.03 | | | |
| 2T036018 | | 0.17 | | | |
| Duplicate | | 0.21 | | | |
| 2T036029 | | 0.10 | | | |
| Duplicate | | 0.10 | | | |
| 2T036031 | | 0.96 | | | |
| Prep Duplicate | | 0.89 | | | |
| 2T038001 | | <0.03 | | | |
| Duplicate | | <0.03 | | | |
| 2T038012 | | <0.03 | | | |
| Duplicate | | <0.03 | | | |
| 2T038016 | | 0.27 | | | |
| Prep Duplicate | | 0.24 | | | |
| 2T038024 | | 0.93 | | | |
| Duplicate | | 0.89 | | | |
| 2T038035 | | 0.45 | | | |
| Duplicate | | 0.44 | | | |
| 2T039007 | | 4.29# | | | |
| Prep Duplicate | | 3.60 | | | |
| 2T039010 | | 0.31 | | | |
| Duplicate | | 0.27 | | | |
| 2T040008 | | 2.23 | | | |
| Duplicate | | 2.35 | | | |
| 2T041011 | | 6.72# | | | |
| Duplicate | | 3.95 | | | |

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REPORT: V92-00857.4 (COMPLETE)

REFERENCE: SHIPMENT #18

CLIENT: HONESTAKE MINERAL DEVELOPMENT COMPANY
 PROJECT: 4507

SUBMITTED BY: G. MCLEOD
 DATE PRINTED: 11-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 13 | 0.03 GWT | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|---------------------|--------|
| R ROCK | 1 | 2 -150 | 13 | CRUSH/SPLIT <10 LB | 13 |
| G DRILL CORE | 12 | | | PULVERIZATION | 13 |

NOTES: † indicates POSSIBLE FREE GOLD

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REPORT: VS2-00857.4 (COMPLETE)

DATE PRINTED: 11-AUG-92

PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | AN GHT |
|------------------|------------------|-----------|
| R2 92PP001 | | 34.49 |
| 02 2T033008 | | 0.07 |
| 02 2T033009 | | 0.27 |
| 02 2T034003 | | 1.54 |
| 02 2T034004 | | 10.59 |
| 02 2T034005 | | 12.96 |
| 02 2T034006 | | 0.07 |
| 02 2T034007 | | 0.24 |
| 02 2T035005 | | 3.57 |
| 02 2T035006 | | 1.65 |
| 02 2T035007 | | 1.06 |
| 02 2T036010 | | 0.894 |
| 02 2T036012 | | 0.77 |

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REPORT: V92-00657.4 (COMPLETE)

DATE PRINTED: 11-AUG-92

PROJECT: 4507

PAGE 2

| STANDARD NAME | ELEMENT UNITS | AVG GHT |
|--------------------|------------------|------------|
| 1991 AU STD-2 | | 0.14 |
| Number of Analyses | | 1 |
| Mean Value | | 0.137 |
| Standard Deviation | | - |
| Accepted Value | | - |

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REPORT: VS2-00857.4 (COMPLETE)

DATE PRINTED: 11-20-92

PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Am GHI |
|------------------|------------------|-----------|
| 21034005 | | 12.96 |
| Duplicate | | 14.26 |
| 21035006 | | 1.65 |
| Prep Duplicate | | 10.834 |

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REPORT: V92-00859.4 (COMPLETE)

REFERENCE: SHIPMENT 307

CLIENT: HOBESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 3507

SUBMITTED BY: B. MUELO
DATE PRINTED: 10-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 30 | 0.03 GNI | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|---------------------|--------|
| R ROCK | 3 | 2 -150 | 30 | CRUSH/SPLIT <10 IS | 30 |
| Q DRILL CORE | 27 | | | PULVERIZATION | 30 |

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MS. SHELLEY LEAR

INVOICE TO: MR. T.E. CHANDLER

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REPORT: V97-00350.4 (COMPLETE)

DATE PRINTED: 11-AUG-92

PROJECT: 4500

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | ANALYSE |
|----------------|---------------|---------|
| R2 10-92 26162 | | 12.56 |
| R2 10-92 26163 | | 6.06 |
| R2 10-92 26164 | | 11.35 |
| D2 21033001 | | 0.17 |
| D2 21033002 | | <0.03 |
| D2 21033003 | | 0.10 |
| D2 21033004 | | <0.03 |
| D2 21033005 | | <0.03 |
| D2 21033006 | | <0.03 |
| D2 21033007 | | <0.03 |
| D2 21033010 | | <0.03 |
| D2 21033011 | | <0.03 |
| D2 21033012 | | <0.03 |
| D2 21033013 | | <0.03 |
| D2 21033014 | | 0.96 |
| D2 21033015 | | <0.03 |
| D2 21033016 | | 0.62 |
| D2 21033017 | | 0.74 |
| D2 21034001 | | <0.03 |
| D2 21034002 | | 0.31 |
| D2 21034009 | | <0.03 |
| D2 21035001 | | 2.67 |
| D2 21035002 | | 2.84 |
| D2 21035003 | | <0.03 |
| D2 21035004 | | 0.79 |
| D2 21035008 | | 3.27 |
| D2 21035009 | | 1.47 |
| D2 21035011 | | 0.51 |
| D2 21035013 | | 0.79 |
| D2 21035014 | | 0.44 |


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A DIVISION OF INCHICAM INSPECTION & TESTING SERVICES

DATE PRINTED: 13-AUG-92

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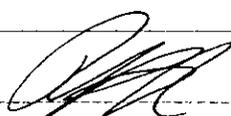
PROJECT: 4507

PAGE 2

| STANDARD NAME | ELEMENT UNITS | ANALYSIS UNIT |
|---------------|---------------|---------------|
|---------------|---------------|---------------|

| | | |
|--------------------|--|-------|
| ANALYTICAL BLANK | | - |
| Number of Analyses | | 1 |
| Mean Value | | 0.017 |
| Standard Deviation | | - |
| Accepted Value | | 0.03 |

| | | |
|--------------------|--|-------|
| Al 0.3 | | 0.60 |
| Number of Analyses | | 1 |
| Mean Value | | 9.600 |
| Standard Deviation | | - |
| Accepted Value | | 10.29 |


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REPORT: V92-00859.4 (COMPLETE)

DATE PRINTED: 13-AUG-92

PROJECT: 4507

PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | AU GRT |
|------------------|------------------|-----------|
|------------------|------------------|-----------|

| | | |
|-----------|--|------|
| 2T033003 | | 0.10 |
| Duplicate | | 0.10 |

| | | |
|----------------|--|-------|
| 2T033015 | | <0.03 |
| Prep Duplicate | | 0.07 |

| | | |
|-----------|--|------|
| 2T033017 | | 0.24 |
| Duplicate | | 0.27 |

| | | |
|-----------|--|------|
| 2T035013 | | 0.79 |
| Duplicate | | 0.51 |

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A DIVISION OF INCH API INSPECTION & TESTING SERVICES

REPORT: V92-01034.4 (COMPLETE)

REFERENCE: SHIPMENT #R4

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
 PROJECT: 4507

SUBMITTED BY: S. LEAR
 DATE PRINTED: 3-SEP-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 20 | 0.034 GMT | | FIRE ASSAY |

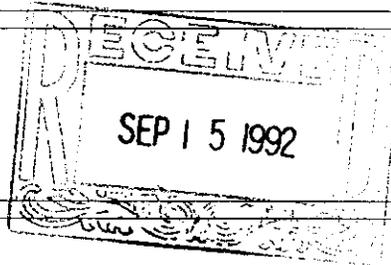
| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|----------------------------------|--------|
| R ROCK | 20 | 2 -150 | 20 | CRUSH/SPLIT <10 LB PULVERIZATION | 20 |

NOTES: # indicates POSSIBLE FREE GOLD

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 MS. SHELLEY LEAR

INVOICE TO: MR. T.E. CHANDLER

Master - R. Boyd.
 NTS - T. Chandler
 Oak River (TWOC) - S. Lear



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DATE PRINTED: 3-SEP-92

REPORT: V92-01034.4 (COMPLETE)

PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|---------------|---------------|---------|
| R2 SL92-055 | | 0.206 |
| R2 SL92-056 | | 4.286 |
| R2 SL92-057 | | 19.474 |
| R2 SL92-058 | | 4.354 |
| R2 SL92-059 | | 0.686 |
| R2 SL92-060 | | 0.617 |
| R2 SL92-061 | | 0.171 |
| R2 SL92-062 | | 0.034 |
| R2 SL92-063 | | 1.783 |
| R2 SL92-064 | | 0.686 |
| R2 SL92-065 | | <0.034 |
| R2 SL92-066 | | <0.034 |
| R2 SL92-067 | | 0.274 |
| R2 SL92-068 | | 0.103 |
| R2 SL92-069 | | <0.034 |
| R2 SL92-070 | | 4.800 |
| R2 SL92-071 | | 2.640 |
| R2 SL92-072 | | 17.760# |
| R2 SL92-073 | | 5.693 |
| R2 SL92-074 | | 0.686 |


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DATE PRINTED: 3-SEP-92

REPORT: V92-01034.4 (COMPLETE)

PROJECT: 4507

PAGE 2

| STANDARD NAME | ELEMENT UNITS | Au GMT |
|--------------------|------------------|-----------|
| AU 0.3 | | 10.286 |
| Number of Analyses | | 1 |
| Mean Value | | 10.2858 |
| Standard Deviation | | - |
| Accepted Value | | 10.286 |

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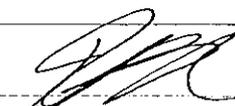
DATE PRINTED: 3-SEP-92

REPORT: V92-01034.4 (COMPLETE)

PROJECT: 4507

PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | Au GHT |
|------------------|------------------|-----------|
| SL92-060 | | 0.617 |
| Duplicate | | 0.754 |
| SL92-068 | | 0.103 |
| Prep Duplicate | | 0.137 |
| SL92-072 | | 17.760# |
| Duplicate | | 27.164 |


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REPORT: V92-00791.A (COMPLETE)

REFERENCE: SHIPMENT #01

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 4507

SUBMITTED BY: R. DAMIAN
DATE PRINTED: 28-JUN-92

| ORDER | ELEMENT | NUMBER OF ANALYSED | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------------------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 57 | 0.03 GNI | | FIRF ASSAY |
| 2 | Au Gravimetric Gold | 9 | 0.17 GNI | | |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|----------------------------------|--------|
| 0 DRILL CORE | 57 | 2 -150 | 57 | CRUSH/SPLIT <30 LB PULVERIZATION | 57 |

NOTES: † indicates POSSIBLE FREE GOLD

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DATE PRINTED: 27-JUL-92

REPORT: V92-09751.A (COMPLETE)

PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT | Au GMT |
|---------------|---------------|--------|--------|---------------|---------------|--------|--------|
| 02 2T019013 | | 3.14 | | 02 2T022015 | | 3.81 | |
| 02 2T019014 | | | 27.60 | 02 2T022016 | | 3.43 | |
| 02 2T019015 | | 2.19 | | 02 2T022017 | | 9.98 | |
| 02 2T019016 | | 1.68 | | 02 2T022018 | | <0.03 | |
| 02 2T019017 | | 11.86 | 11.07 | 02 2T022019 | | 0.10 | |
| 02 2T019018 | | 1.68 | | 02 2T022022 | | 12.62 | 12.69 |
| 02 2T019019 | | 10.18 | | 02 2T022023 | | 0.07 | |
| 02 2T019020 | | | 28.734 | 02 2T023010 | | <0.03 | |
| 02 2T019021 | | 1.41 | | 02 2T023011 | | 0.96 | |
| 02 2T019022 | | 0.34 | | 02 2T023012 | | <0.03 | |
| 02 2T019023 | | 13.37 | 14.13 | 02 2T023016 | | 0.38 | |
| 02 2T019024 | | | 19.37 | 02 2T023017 | | 6.43 | |
| 02 2T019025 | | 3.70 | | 02 2T023018 | | <0.03 | |
| 02 2T019026 | | 11.11 | 10.94 | 02 2T023019 | | <0.03 | |
| 02 2T019027 | | 0.99 | | 02 2T023020 | | 2.90 | |
| 02 2T020002 | | 0.10 | | 02 2T023021 | | 0.24 | |
| 02 2T020003 | | 0.14 | | 02 2T023022 | | <0.03 | |
| 02 2T020004 | | <0.03 | | | | | |
| 02 2T020005 | | <0.03 | | | | | |
| 02 2T020006 | | <0.03 | | | | | |
| 02 2T020007 | | 1.47 | | | | | |
| 02 2T020008 | | 0.14 | | | | | |
| 02 2T020014 | | 7.03 | | | | | |
| 02 2T020015 | | 2.66 | | | | | |
| 02 2T020016 | | 0.58 | | | | | |
| 02 2T021017 | | 0.17 | | | | | |
| 02 2T021014 | | <0.03 | | | | | |
| 02 2T021015 | | <0.03 | | | | | |
| 02 2T021016 | | <0.03 | | | | | |
| 02 2T021017 | | <0.03 | | | | | |
| 02 2T021018 | | 7.07 | | | | | |
| 02 2T021019 | | 0.21 | | | | | |
| 02 2T021020 | | 0.75 | | | | | |
| 02 2T021021 | | 1.17 | | | | | |
| 02 2T021022 | | <0.03 | | | | | |
| 02 2T022023 | | 2.01 | | | | | |
| 02 2T022011 | | 0.17 | | | | | |
| 02 2T022012 | | 5.90 | | | | | |
| 02 2T022013 | | 3.34 | | | | | |
| 02 2T022014 | | | 7.03 | | | | |

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REPORT: V92-00751.4 (COMPLETE)

PROJECT: 4507

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| STANDARD NAME | ELEMENT UNITS | AU GMT | AU GMT | STANDARD NAME | ELEMENT UNITS | AU GMT | AU GMT |
|--------------------|---------------|--------|--------|---------------|---------------|--------|--------|
| ANALYTICAL BLANK | | - | - | | | | |
| Number of Analyses | | 1 | - | | | | |
| Mean Value | | 0.017 | - | | | | |
| Standard Deviation | | - | - | | | | |
| Accepted Value | | 0.03 | - | | | | |
| AU 0.05 | | 1.68 | - | | | | |
| Number of Analyses | | 1 | - | | | | |
| Mean Value | | 1.680 | - | | | | |
| Standard Deviation | | - | - | | | | |
| Accepted Value | | 1.71 | - | | | | |
| BCC GOLD STD 90-3 | | 0.07 | - | | | | |
| Number of Analyses | | 1 | - | | | | |
| Mean Value | | 0.068 | - | | | | |
| Standard Deviation | | - | - | | | | |
| Accepted Value | | 0.75 | - | | | | |

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REPORT: V92-00751.4 (COMPLETE)

PROJECT: 4507

PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | Au GHT | Au GHT | SAMPLE NUMBER | ELEMENT UNITS | Au GHT | Au GHT |
|----------------|---------------|--------|--------|---------------|---------------|--------|--------|
| 21019018 | | 1.68 | | | | | |
| Duplicate | | 1.84 | | | | | |
| 21020002 | | 0.10 | | | | | |
| Prep Duplicate | | 0.07 | | | | | |
| 21020004 | | <0.03 | | | | | |
| Duplicate | | <0.03 | | | | | |
| 21021016 | | <0.03 | | | | | |
| Duplicate | | <0.03 | | | | | |
| 21022014 | | | 7.03 | | | | |
| Duplicate | | 6.91 | | | | | |
| 21023010 | | <0.03 | | | | | |
| Prep Duplicate | | <0.03 | | | | | |
| 21023016 | | 0.38 | | | | | |
| Duplicate | | 0.37 | | | | | |

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REPORT: V90-00753.A (COMPLETE)

REFERENCE: SHIPMENT #02

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
 PROJECT: 4507

SUBMITTED BY: R. DUNCAN
 DATE PRINTED: 28-JUL-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 67 | 0.034 G/T | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|------------------------------------|----------|
| D GRILL CORE | 67 | 2 -150 | 67 | CRUSH/SPLIT 10 LB PULVERIZATION | 67 67 |

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DATE PRINTED: 28-JUL-92

PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au GWT | SAMPLE NUMBER | ELEMENT UNITS | Au GWT |
|---------------|---------------|--------|---------------|---------------|--------|
| 02 21019001 | | <0.034 | 02 21021024 | | 2.167 |
| 02 21019002 | | <0.034 | 02 21021025 | | <0.034 |
| 02 21019003 | | <0.034 | 02 21022001 | | <0.034 |
| 02 21019004 | | 0.616 | 02 21022002 | | <0.034 |
| 02 21019005 | | <0.034 | 02 21022003 | | <0.034 |
| 02 21019006 | | 0.208 | 02 21022004 | | <0.034 |
| 02 21019007 | | <0.034 | 02 21022005 | | <0.034 |
| 02 21019008 | | 0.376 | 02 21022006 | | <0.034 |
| 02 21019009 | | <0.034 | 02 21022007 | | <0.034 |
| 02 21019010 | | <0.034 | 02 21022008 | | <0.034 |
| 02 21019011 | | 1.917 | 02 21022009 | | <0.034 |
| 02 21019012 | | 3.043 | 02 21022010 | | <0.034 |
| 02 21019026 | | 1.537 | 02 21022019 | | <0.034 |
| 02 21019025 | | <0.034 | 02 21022020 | | <0.034 |
| 02 21020001 | | 0.819 | 02 21022024 | | <0.034 |
| 02 21020006 | | 0.341 | 02 21023001 | | <0.034 |
| 02 21020010 | | 0.476 | 02 21023002 | | 0.648 |
| 02 21020011 | | <0.034 | 02 21023003 | | <0.034 |
| 02 21020012 | | <0.034 | 02 21023004 | | <0.034 |
| 02 21020013 | | <0.034 | 02 21023005 | | <0.034 |
| 02 21020018 | | <0.034 | 02 21023006 | | 0.068 |
| 02 21020019 | | 0.205 | 02 21023007 | | 0.334 |
| 02 21020020 | | 0.103 | 02 21023008 | | <0.034 |
| 02 21020021 | | 0.411 | 02 21023009 | | <0.034 |
| 02 21020022 | | <0.034 | 02 21023013 | | <0.034 |
| 02 21020023 | | 0.102 | 02 21023014 | | <0.034 |
| 02 21020024 | | 1.093 | 02 21023015 | | <0.034 |
| 02 21021001 | | 0.101 | | | |
| 02 21021002 | | 0.514 | | | |
| 02 21021003 | | <0.034 | | | |
| 02 21021004 | | 0.342 | | | |
| 02 21021005 | | 0.479 | | | |
| 02 21021006 | | <0.034 | | | |
| 02 21021007 | | 0.182 | | | |
| 02 21021008 | | <0.034 | | | |
| 02 21021009 | | 0.182 | | | |
| 02 21021010 | | <0.034 | | | |
| 02 21021011 | | <0.034 | | | |
| 02 21021012 | | <0.034 | | | |
| 02 21021013 | | 0.269 | | | |

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REPORT: V92-00763.A (COMPLETE)

PROJECT: 4507

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| STANDARD NAME | ELEMENT UNITS | A ₀ SMT | STANDARD NAME | ELEMENT UNITS | A ₀ SMT |
|--------------------|---------------|--------------------|---------------|---------------|--------------------|
| ANAL-1 | | - | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 0.0171 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | - | | | |
| AN 0.3 | | 10.834 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 10.8344 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 10.286 | | | |
| ANALYTICAL BLANK | | - | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 0.0171 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 0.034 | | | |

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DATE PRINTED: 23-JUL-92

REPORT: V92 00021 (COMPLETE)

PROJECT: 4407

PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|----------------|---------------|--------|---------------|---------------|--------|
| 21019006 | | 0.308 | | | |
| Prep Duplicate | | 0.205 | | | |
| Duplicate | | 0.273 | | | |
| 21020011 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 21021002 | | 0.514 | | | |
| Duplicate | | 0.445 | | | |
| 21021013 | | 0.069 | | | |
| Duplicate | | 0.058 | | | |
| 21022009 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 21023003 | | <0.034 | | | |
| Prep Duplicate | | <0.034 | | | |
| 21023008 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |

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REPORT: V92-00769.4 (COMPLETE)

REFERENCE: SHIPMENT #R1

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 4507

SUBMITTED BY: S. LEAR
DATE PRINTED: 4-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 13 | 0.034 GMT | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|-------------------------------------|----------|
| R ROCK | 13 | 2 -150 | 13 | CRUSH/SPLIT <10 LB PULVERIZATION | 13 13 |

NOTES: # indicates POSSIBLE FREE GOLD

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REPORT: V92-00769.4 (COMPLETE)

DATE PRINTED: 4-AUG-92
PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|------------------|------------------|-----------|
| R2 SL92-001 | | 0.308 |
| R2 SL92-002 | | <0.034 |
| R2 SL92-003 | | 0.171 |
| R2 SL92-004 | | 9.772 |
| R2 SL92-005 | | 0.069 |
| R2 SL92-006 | | 1.817# |
| R2 SL92-007 | | 0.137 |
| R2 SL92-008 | | 0.068 |
| R2 SL92-009 | | 0.855 |
| R2 SL92-010 | | 0.068 |
| R2 SL92-011 | | 1.571 |
| R2 SL92-012 | | 2.460 |
| R2 SL92-013 | | 1.672 |

A handwritten signature in black ink, appearing to read 'R. H. ...', is located at the bottom right of the page.

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REPORT: V92-00769.4 (COMPLETE)

DATE PRINTED: 4-AUG-92

PROJECT: 4507

PAGE 2

| STANDARD NAME | ELEMENT UNITS | Au GMT |
|--------------------|------------------|-----------|
| ANALYTICAL BLANK | | - |
| Number of Analyses | | 1 |
| Mean Value | 0.0171 | |
| Standard Deviation | | - |
| Accepted Value | 0.034 | |

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REPORT: V92-00769.4 (COMPLETE)

DATE PRINTED: 4-AUG-92

PROJECT: 4507

PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|----------------------------|------------------|-----------------|
| SL92-005 Prep Duplicate | | 0.069 <0.034 |
| SL92-006 Duplicate | | 1.817# 2.119 |

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REPORT: V92-00825.4 (COMPLETE)

REFERENCE: SHIPMENT #R2

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
 PROJECT: 4507

SUBMITTED BY: S. LEAR
 DATE PRINTED: 30-JUL-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 7 | 0.034 GMT | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|-------------------------------------|--------|
| R ROCK | 7 | 2 -150 | 7 | CRUSH/SPLIT <10 LB PULVERIZATION | 7 7 |

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REPORT: V92-00825.4 (COMPLETE)

DATE PRINTED: 30-JUL-92

PROJECT: 4507

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|---------------|---------------|--------|
| R2 SL92014 | | 0.814 |
| R2 SL92015 | | 0.547 |
| R2 SL92016 | | 0.239 |
| R2 SL92017 | | 0.206 |
| R2 SL92018 | | 0.514 |
| R2 SL92019 | | 0.171 |
| R2 SL92020 | | 0.205 |

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REPORT: V92-00825.4 (COMPLETE)

DATE PRINTED: 30-JUL-92

PROJECT: 4507

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| STANDARD NAME | ELEMENT UNITS | Au GMT |
|--------------------|------------------|-----------|
| ANALYTICAL BLANK | | - |
| Number of Analyses | | 1 |
| Mean Value | | 0.0171 |
| Standard Deviation | | - |
| Accepted Value | | 0.034 |

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REPORT: V92-00825.4 (COMPLETE)

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|------------------|------------------|-----------|
| SL92019 | | 0.171 |
| Duplicate | | 0.170 |

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V92-00826.4 (COMPLETE)

REFERENCE: SHIPMENT #04

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 4507

SUBMITTED BY: BILL
DATE PRINTED: 6-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 100 | 0.034 GMT | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|-----------------------------------|------------|
| R ROCK | 100 | 2 -150 | 100 | CRUSH/SPLIT <10 LB PULVERTIZATION | 100 100 |

NOTES: † indicates POSSIBLE FREE GOLD

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REPORT: V92-00826.4 (COMPLETE)

DATE PRINTED: 6-AUG-92

PROJECT: 4507

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|---------------|---------------|--------|---------------|---------------|--------|
| R2 92T024001 | | 0.579 | R2 92T028009 | | 0.103 |
| R2 92T024002 | | 0.102 | R2 92T028010 | | 0.446 |
| R2 92T024006 | | 3.771 | R2 92T028018 | | <0.034 |
| R2 92T024007 | | <0.034 | R2 92T028019 | | <0.034 |
| R2 92T024008 | | <0.034 | R2 92T028020 | | 0.068 |
| R2 92T024010 | | <0.034 | R2 92T028021 | | <0.034 |
| R2 92T024011 | | 0.069 | R2 92T028022 | | <0.034 |
| R2 92T024012 | | <0.034 | R2 92T028026 | | <0.034 |
| R2 92T024015 | | <0.034 | R2 92T028027 | | <0.034 |
| R2 92T024016 | | <0.034 | R2 92T028028 | | <0.034 |
| R2 92T025009 | | 0.340 | R2 92T028029 | | 0.069 |
| R2 92T025010 | | 0.137 | R2 92T028030 | | 0.171 |
| R2 92T025011 | | 0.788 | R2 92T028031 | | 0.136 |
| R2 92T025017 | | <0.034 | R2 92T028032 | | <0.034 |
| R2 92T026001 | | <0.034 | R2 92T028033 | | 0.103 |
| R2 92T026002 | | 0.137 | R2 92T028034 | | 0.309 |
| R2 92T026003 | | <0.034 | R2 92T028035 | | 0.068 |
| R2 92T026004 | | <0.034 | R2 92T028036 | | 1.432 |
| R2 92T026005 | | <0.034 | R2 92T028037 | | 0.616 |
| R2 92T026006 | | <0.034 | R2 92T028038 | | 1.129 |
| R2 92T026007 | | <0.034 | R2 92T028039 | | 0.068 |
| R2 92T026008 | | <0.034 | R2 92T028051 | | <0.034 |
| R2 92T026009 | | <0.034 | R2 92T028052 | | 1.300 |
| R2 92T026010 | | <0.034 | R2 92T028053 | | 2.880 |
| R2 92T026011 | | <0.034 | R2 92T028054 | | 0.514 |
| R2 92T026012 | | <0.034 | R2 92T028055 | | 0.651 |
| R2 92T027001 | | <0.034 | R2 92T028056 | | 0.171 |
| R2 92T027002 | | <0.034 | R2 92T028057 | | 0.068 |
| R2 92T027003 | | <0.034 | R2 92T028058 | | 0.068 |
| R2 92T027004 | | <0.034 | R2 92T028059 | | 0.136 |
| R2 92T027005 | | 0.377 | R2 92T028060 | | 0.273 |
| R2 92T027021 | | <0.034 | R2 92T028061 | | <0.034 |
| R2 92T028001 | | 0.068 | R2 92T028062 | | 0.239 |
| R2 92T028002 | | 0.956 | R2 92T028063 | | 0.137 |
| R2 92T028003 | | 2.606 | R2 92T028064 | | 0.068 |
| R2 92T028004 | | <0.034 | R2 92T028065 | | 0.068 |
| R2 92T028005 | | 0.789 | R2 92T028066 | | 0.170 |
| R2 92T028006 | | <0.034 | R2 92T028067 | | 0.068 |
| R2 92T028007 | | 0.069 | R2 92T028068 | | <0.034 |
| R2 92T028008 | | 0.206 | R2 92T028069 | | 0.616 |

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PROJECT: 4507

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|---------------|---------------|--------|---------------|---------------|--------|
| R2 92T028070 | | 0.137 | | | |
| R2 92T028071 | | 0.069 | | | |
| R2 92T028072 | | 0.068 | | | |
| R2 92T028073 | | 0.411 | | | |
| R2 92T028074 | | 0.103 | | | |
| R2 92T028075 | | 0.069 | | | |
| R2 92T029001 | | <0.034 | | | |
| R2 92T029002 | | 0.410 | | | |
| R2 92T029003 | | 0.068 | | | |
| R2 92T029004 | | <0.034 | | | |
| R2 92T029005 | | <0.034 | | | |
| R2 92T029006 | | 0.068 | | | |
| R2 92T029007 | | <0.034 | | | |
| R2 92T029008 | | <0.034 | | | |
| R2 92T029009 | | <0.034 | | | |
| R2 92T029010 | | <0.034 | | | |
| R2 92T029011 | | 0.068 | | | |
| R2 92T029012 | | 0.069 | | | |
| R2 92T029013 | | 0.272 | | | |
| R2 92T029014 | | 0.239 | | | |

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REPORT: V92-00826.4 (COMPLETE)

DATE PRINTED: 6-AUG-92

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| STANDARD NAME | ELEMENT UNITS | Au GMT | STANDARD NAME | ELEMENT UNITS | Au GMT |
|--------------------|---------------|--------|---------------|---------------|--------|
| AU 0.05 | | 1.749 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 1.7486 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 1.714 | | | |
| AU91-1 | | 0.069 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 0.0685 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | - | | | |
| AU 0.1 | | 3.600 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 3.6000 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 3.429 | | | |
| ANALYTICAL BLANK | | - | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 0.0171 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 0.034 | | | |
| AU 0.2 | | 7.166 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 7.1658 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 6.857 | | | |

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DATE PRINTED: 6-AUG-92

PROJECT: 4507

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| SAMPLE NUMBER | ELEMENT UNITS | Au GHT | SAMPLE NUMBER | ELEMENT UNITS | Au GHT |
|----------------|---------------|--------|---------------|---------------|--------|
| 92T024010 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 92T026001 | | <0.034 | | | |
| Prep Duplicate | | <0.034 | | | |
| 92T026004 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 92T027003 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 92T028008 | | 0.206 | | | |
| Duplicate | | 0.309 | | | |
| 92T028029 | | 0.069 | | | |
| Duplicate | | 0.069 | | | |
| 92T028052 | | 1.300 | | | |
| Duplicate | | 1.303 | | | |
| 92T028062 | | 0.239 | | | |
| Prep Duplicate | | 0.239 | | | |
| 92T028063 | | 0.137 | | | |
| Duplicate | | 0.171 | | | |
| 92T028071 | | 0.069 | | | |
| Prep Duplicate | | <0.034 | | | |
| 92T028074 | | 0.103 | | | |
| Duplicate | | 0.103 | | | |
| 92T029010 | | <0.034 | | | |
| Duplicate | | 0.034 | | | |

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V92-00827.4 (COMPLETE)

REFERENCE: SHIPMENT #D3

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 4507

SUBMITTED BY: UNKNOWN
DATE PRINTED: 31-JUL-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 63 | 0.034 GMT | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|-------------------------------------|----------|
| R ROCK | 63 | 2 -150 | 63 | CRUSH/SPLIT <10 LB PULVERIZATION | 63 63 |

NOTES: # indicates POSSIBLE FREE GOLD

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REPORT: V92-00827.4 (COMPLETE)

DATE PRINTED: 31-JUL-92

PROJECT: 4507

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|---------------|---------------|--------|---------------|---------------|--------|
| R2 92T024003 | | 2.843 | R2 92T027019 | | <0.034 |
| R2 92T024004 | | 2.455 | R2 92T027020 | | 0.069 |
| R2 92T024005 | | 3.079 | R2 92T028011 | | <0.034 |
| R2 92T024009 | | 4.268 | R2 92T028012 | | 0.204 |
| R2 92T024013 | | 0.171 | R2 92T028013 | | <0.034 |
| R2 92T024014 | | 2.023 | R2 92T028014 | | 0.068 |
| R2 92T025001 | | <0.034 | R2 92T028015 | | <0.034 |
| R2 92T025002 | | 2.565 | R2 92T028016 | | 0.274 |
| R2 92T025003 | | 2.723 | R2 92T028017 | | <0.034 |
| R2 92T025004 | | 1.938 | R2 92T028023 | | 0.170 |
| R2 92T025005 | | <0.034 | R2 92T028024 | | 7.680 |
| R2 92T025006 | | 0.918 | R2 92T028025 | | 0.170 |
| R2 92T025007 | | 0.274 | R2 92T028040 | | 0.376 |
| R2 92T025008 | | 0.102 | R2 92T028041 | | 0.137 |
| R2 92T025012 | | 0.103 | R2 92T028042 | | 0.650 |
| R2 92T025013 | | 6.927 | R2 92T028043 | | 0.857 |
| R2 92T025014 | | 2.855 | R2 92T028044 | | <0.034 |
| R2 92T025015 | | <0.034 | R2 92T028045 | | 0.614 |
| R2 92T025016 | | 0.068 | R2 92T028046 | | 0.889 |
| R2 92T026013 | | <0.034 | R2 92T028047 | | 4.521 |
| R2 92T026014 | | <0.034 | R2 92T028048 | | 0.171 |
| R2 92T026015 | | 0.787 | R2 92T028049 | | 0.477 |
| R2 92T026016 | | 0.205 | R2 92T028050 | | 0.068 |
| R2 92T026017 | | 0.751 | | | |
| R2 92T026018 | | 0.203 | | | |
| R2 92T026019 | | 0.068 | | | |
| R2 92T026020 | | <0.034 | | | |
| R2 92T027006 | | 0.205 | | | |
| R2 92T027007 | | 6.103# | | | |
| R2 92T027008 | | 0.926 | | | |
| R2 92T027009 | | 6.583 | | | |
| R2 92T027010 | | 0.956 | | | |
| R2 92T027011 | | 0.717 | | | |
| R2 92T027012 | | 0.137 | | | |
| R2 92T027013 | | 2.090 | | | |
| R2 92T027014 | | 1.505 | | | |
| R2 92T027015 | | 0.342 | | | |
| R2 92T027016 | | 0.444 | | | |
| R2 92T027017 | | 0.102 | | | |
| R2 92T027018 | | 0.068 | | | |

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REPORT: V92-00827.4 (COMPLETE)

DATE PRINTED: 31-JUL-92

PROJECT: 4507

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| STANDARD NAME | ELEMENT UNITS | Au GMT | STANDARD NAME | ELEMENT UNITS | Au GMT |
|--------------------|---------------|--------|---------------|---------------|--------|
| 1991 AU STD-2 | | 0.137 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 0.1366 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | - | | | |
| AU 0.2 | | 6.857 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 6.8572 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 6.857 | | | |
| ANALYTICAL BLANK | | 0.034 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 0.0343 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 0.034 | | | |

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|----------------|---------------|--------|---------------|---------------|--------|
| 92T024014 | | 2.023 | | | |
| Duplicate | | 2.077 | | | |
| 92T025015 | | <0.034 | | | |
| Prep Duplicate | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 92T027007 | | 6.103# | | | |
| Duplicate | | 5.004 | | | |
| 92T027018 | | 0.068 | | | |
| Duplicate | | <0.034 | | | |
| 92T028011 | | <0.034 | | | |
| Prep Duplicate | | 0.068 | | | |
| 92T028024 | | 7.680 | | | |
| Duplicate | | 7.051 | | | |
| 92T028050 | | 0.068 | | | |
| Duplicate | | 0.068 | | | |

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892 00346

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A DIVISION OF ENHANCED INSPECTION & TESTING SERVICES

REPORT: V92-00346.4 (COMPLETE)

REFERENCE: SHIPMENT #05

CLIENT: HOMESTAKE MINERAL DEVELOPMENT COMPANY
PROJECT: 4507

SUBMITTED BY: B. MCLEOD
DATE PRINTED: 6-AUG-92

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|-------|---------|--------------------|-----------------------|------------|------------|
| 1 | Au Gold | 65 | 0.034 G/M | | FIRE ASSAY |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|--------------|--------|----------------|--------|----------------------------------|--------|
| R ROCK | 65 | 2 -150 | 65 | CRUSH/SPLIT <10 LB PULVERIZATION | 65 |

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REPORT: V92-00846.4 (COMPLETE)

DATE PRINTED: 6-AUG-92

PROJECT: 4507

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| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|---------------|---------------|--------|---------------|---------------|--------|
| R2 2T029015 | | <0.034 | R2 2T030016 | | <0.034 |
| R2 2T029016 | | <0.034 | R2 2T030017 | | 0.206 |
| R2 2T029017 | | <0.034 | R2 2T030018 | | <0.034 |
| R2 2T029018 | | 0.102 | R2 2T030019 | | 0.341 |
| R2 2T029019 | | 0.307 | R2 2T030020 | | 0.308 |
| R2 2T029020 | | <0.034 | R2 2T031001 | | 0.342 |
| R2 2T029021 | | <0.034 | R2 2T031002 | | 0.103 |
| R2 2T029022 | | 0.102 | R2 2T031003 | | <0.034 |
| R2 2T029023 | | 0.068 | R2 2T031004 | | 0.715 |
| R2 2T029024 | | <0.034 | R2 2T031008 | | 0.888 |
| R2 2T029025 | | 0.068 | R2 2T031009 | | <0.034 |
| R2 2T029026 | | 0.206 | R2 2T031010 | | 0.069 |
| R2 2T029027 | | <0.034 | R2 2T032001 | | <0.034 |
| R2 2T029028 | | <0.034 | R2 2T032002 | | <0.034 |
| R2 2T029029 | | 0.204 | R2 2T032003 | | <0.034 |
| R2 2T029030 | | <0.034 | R2 2T032004 | | 0.788 |
| R2 2T029031 | | 0.068 | R2 2T032005 | | 0.787 |
| R2 2T029032 | | 0.206 | R2 2T032006 | | <0.034 |
| R2 2T029033 | | <0.034 | R2 2T032007 | | <0.034 |
| R2 2T029034 | | <0.034 | R2 2T032008 | | 0.068 |
| R2 2T029035 | | 0.102 | R2 2T032009 | | 0.374 |
| R2 2T029036 | | <0.034 | R2 2T032010 | | 0.183 |
| R2 2T029037 | | <0.034 | R2 2T032013 | | 0.137 |
| R2 2T029038 | | 0.136 | R2 2T032014 | | 0.068 |
| R2 2T029039 | | <0.034 | R2 2T032015 | | <0.034 |
| R2 2T030001 | | <0.034 | | | |
| R2 2T030002 | | 2.887 | | | |
| R2 2T030003 | | 0.171 | | | |
| R2 2T030004 | | <0.034 | | | |
| R2 2T030005 | | <0.034 | | | |
| R2 2T030006 | | <0.034 | | | |
| R2 2T030007 | | <0.034 | | | |
| R2 2T030008 | | <0.034 | | | |
| R2 2T030009 | | <0.034 | | | |
| R2 2T030010 | | 0.136 | | | |
| R2 2T030011 | | 0.068 | | | |
| R2 2T030012 | | <0.034 | | | |
| R2 2T030013 | | 3.044 | | | |
| R2 2T030014 | | <0.034 | | | |
| R2 2T030015 | | 0.305 | | | |

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REPORT: V92-00846.4 (COMPLETE)

DATE PRINTED: 6-AUG-92

PROJECT: 4507

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| STANDARD NAME | ELEMENT UNITS | Au GMT | STANDARD NAME | ELEMENT UNITS | Au GMT |
|--------------------|---------------|--------|---------------|---------------|--------|
| AU 0.05 | | 1.851 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 1.8514 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 1.714 | | | |
| AU91-1 | | - | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 0.0171 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | - | | | |
| AU 0.1 | | 3.737 | | | |
| Number of Analyses | | 1 | | | |
| Mean Value | | 3.7372 | | | |
| Standard Deviation | | - | | | |
| Accepted Value | | 3.429 | | | |

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V92-00846.A (COMPLETE)

DATE PRINTED: 6-AUG-92

PROJECT: 4507

PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | Au GMT | SAMPLE NUMBER | ELEMENT UNITS | Au GMT |
|----------------|---------------|--------|---------------|---------------|--------|
| 2T029020 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 2T029032 | | 0.206 | | | |
| Duplicate | | 0.171 | | | |
| 2T030004 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 2T030016 | | <0.034 | | | |
| Duplicate | | <0.034 | | | |
| 2T031010 | | 0.069 | | | |
| Duplicate | | <0.034 | | | |
| 2T032007 | | <0.034 | | | |
| Prep Duplicate | | <0.034 | | | |
| 2T032014 | | 0.068 | | | |
| Duplicate | | 0.068 | | | |



BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: 985-0681 TELEX: 04-352667



BCC Report No. 00846.0

In your recent sample submission, received July 29/92,

the following samples were listed as included with the

shipment. However, we note that they are missing:

2T032011, 2T032012

The following were not listed, but included:

BONDAR-CLEGG & COMPANY LTD.

CO

APPENDIX 6
COMPILATION OF ROCK SAMPLE DESCRIPTIONS

APPENDIX 6
 COMPILATION OF ROCK SAMPLE DESCRIPTIONS

HAMMER-ROOSTER GRID

| Sample No. | Au g/t | Line | Station | Description | TYPE |
|------------|--------|--------|---------|---|------------------|
| SL92001 | 0.31 | 72+32E | 59+55S | 2c, med gr., up to 5% py, aspy. | Felsenmeer |
| SL92002 | 0.03 | 72+50E | 59+52S | 4a, 5% 2mm qtz eyes, up to 5% coarse euhedral aspy. | Felsenmeer |
| SL92003 | 0.17 | 72+80E | 59+20S | 2da, amph.-chl., up to 30% py as fine stringers. | Felsenmeer |
| SL92004 | 9.77 | 71+58E | 59+95S | 2da, grunerite, qtz veins, up to 5% aspy. | Felsenmeer |
| SL92005 | 0.07 | 71+58E | 59+15S | 2d, banded, tr py in qtz veins. | Felsenmeer |
| SL92006 | 1.82 | 71+40E | 58+25S | 2da, grunerite, up to 20% py, 20% aspy | Felsenmeer |
| SL92007 | 0.14 | 70+40E | 59+28S | 2da, qtz-chl altered, up to 30% py | Felsenmeer |
| SL92008 | 0.07 | 69+20E | 58+16S | 4a, 5% qtz eyes, up to 15% aspy | Felsenmeer |
| SL92009 | 0.86 | 68+90E | 58+04S | 2ca, grunerite, qtz veins, up to 10% py | possible outcrop |
| SL92010 | 0.07 | 66+60E | 58+85S | 2ca, coarse grunerite rosettes, up to 10% py, tr aspy | Felsenmeer |
| SL92011 | 1.57 | 66+00E | 59+00S | 2ca, well banded grunerite/mt, up to 20% py, tr aspy | Felsenmeer |
| SL92021 | 4.97 | 73+85E | 60+24S | 2ca, amph-mt, qtz veins with aspy up to 70% | Felsenmeer |
| SL92022 | 0.03 | 73+85E | 60+24S | 2ca, coarse grunerite-mt, tr py | Felsenmeer |
| SL92023 | 50.40 | 72+42E | 60+20S | 2ca, mt-amph, up to 20% coarse gr. aspy + py with qtz veins | Felsenmeer |
| SL92024 | 2.30 | 72+20E | 59+80S | 2d, coarse grunerite, 10% aspy | Felsenmeer |
| SL92025 | 0.03 | 71+20E | 59+68S | 2ca, well banded mt-grunerite, 2% py | Felsenmeer |
| PP92001 | 34.49 | 73+85E | 60+24S | 2ca with semi-massive arsenopyrite | Felsenmeer |

APPENDIX 6
 COMPILATION OF ROCK SAMPLE DESCRIPTIONS

HAMMER LAKE NORTH

| Sample No. | Au g/t | Line | Station | Description | TYPE |
|------------|--------|---------|---------|---|--------------------|
| SL92054 | 1.64 | No grid | | 10cm wide qtz-chl vein in 1a, 2% aspy | Outcrop, 10cm chip |
| SL92055 | 0.21 | | | 2ca, amph-hem-mt, 5% py | Felsenmeer |
| SL92056 | 4.29 | | | qtz-chl 10% py, tr aspy | Felsenmeer |
| SL92057 | 19.47 | | | 2d, amph-chl, qtz veins, 2% py stringers | Felsenmeer |
| SL92058 | 4.35 | | | 12cm wide 2da, chl-amph, 4% py, tr aspy in 1a | Outcrop, 12cm chip |
| SL92059 | 0.69 | | | 2c/2ca, mt-amph-grunerite, tr-3% py | Felsenmeer |
| SL92060 | 0.62 | | | 2d, amph-chl, qtz veins, tr py | Felsenmeer |
| SL92061 | 0.17 | | | 2da, amph-chl, 1% py stringers. | Outcrop |
| SL92062 | 0.03 | | | 2da, amph-chl, 2-4% py stringers | Outcrop |
| SL92063 | 1.78 | | | 2da, amph-chl, 12-20% coarse euhedral aspy | Outcrop |
| SL92064 | 0.69 | | | 2da, amph-chl, qtz veins, 2-3% py, tr aspy | Felsenmeer |

APPENDIX 6
 COMPILATION OF ROCK SAMPLE DESCRIPTIONS

ROOSTER-FOX GRID

| Sample No. | Au g/t | Line | Station | Description | TYPE |
|------------|--------|--------|---------|--|------------|
| SL92012 | 2.46 | 55+70E | 60+75S | 2ca, amph-mt, up to 20% py, tr aspy, qtz veins | Outcrop |
| SL92013 | 1.67 | 55+30E | 60+70S | 2ca, grunerite-mt-hem., 5% py | Felsenmeer |
| SL92014 | 0.81 | 55+30E | 59+60S | 2d, fine grunerite rosettes, qtz veins, tr py, aspy | Felsenmeer |
| SL92015 | 0.55 | 55+05E | 58+50S | 2da, grunerite, qtz veins, up to 5% banded py, tr aspy | Felsenmeer |
| SL92016 | 0.24 | 53+85E | 61+10S | 2ca, grunerite-mt-hem., 2% py | Felsenmeer |
| SL92017 | 0.21 | 53+60E | 60+20S | 2ca, fine gr., strong mt, up to 10% py stringers | Felsenmeer |
| SL92018 | 0.51 | 53+62E | 59+00S | 2d, qtz vein, up to 40% py | Felsenmeer |
| SL92019 | 0.17 | 51+58E | 61+80S | 2ca, amph-mt-hem, 3% py stringers, tr aspy | Felsenmeer |
| SL92020 | 0.21 | 50+76E | 60+00S | 2ca, coarse grunerite, banded mt-hem, up to 20% py | Felsenmeer |

APPENDIX 6
 COMPILATION OF ROCK SAMPLE DESCRIPTIONS

TEA POND

| Sample No. | Au g/t | Line | Station | Description | TYPE |
|------------|--------|---------|---------|---|-------------------|
| SL92026 | 9.98 | No grid | | 2d, qtz veins, 2% py | Felsenmeer |
| SL92027 | 6.41 | | | 2d, trace mt, 2% py | Felsenmeer |
| SL92028 | 7.95 | | | 2d, 2da, 2% py | Felsenmeer |
| SL92029 | 16.63 | | | 2ca, amph-chl, 10% py, 2% aspy, qtz veins | Outcrop |
| SL92030 | 5.49 | | | qtz-chl altered 2c?, 15% py, 2% aspy | Felsenmeer |
| SL92031 | 26.67 | | | 2ca, intense qtz veins, 15-20% aspy, 5% py | Felsenmeer |
| SL92032 | 15.09 | | | 2ca, intense qtz veins, up to 10% py, 2-3% aspy | Felsenmeer |
| SL92033 | 18.51 | | | 2ca, chl-qtz veins, up to 30% py, 5% aspy | Felsenmeer |
| SL92034 | 0.45 | | | 2ca, qtz vein, 5-20% py | Felsenmeer |
| SL92035 | 7.44 | | | 2c, qtz-rich, 10% py, 2% aspy | Felsenmeer |
| SL92036 | 0.38 | | | 2ca, intense qtz veins, 10-15% py + aspy | Outcrop-15cm chip |
| SL92037 | 0.07 | | | 2c, fine gr., tr py | Felsenmeer |
| SL92038 | 0.07 | | | 2d, amph, up to 15% py | Felsenmeer |
| SL92039 | 30.45 | | | 2d, amph-qtz, 10-15% py, 1% aspy | Felsenmeer |
| SL92040 | 0.03 | | | 4a, 5% diss aspy needles | Felsenmeer |
| 92TC26162 | 12.58 | | | 2d, limonitic, quartz, py | Felsenmeer |
| 92TC26163 | 6.86 | | | 20 cm. quartz, gossan in 1a/3c | Felsenmeer |
| 92TC26164 | 11.35 | | | 5a,2c, quartz vein, 15% py, tr cp | Outcrop |

APPENDIX 6
 COMPILATION OF ROCK SAMPLE DESCRIPTIONS

ELLICE RIVER

| Sample No. | Au g/t | Line | Station | Description | TYPE |
|------------|--------|--------|---------|--|------------|
| SL92041 | 0.03 | 57+36N | 52+78E | qtz vein, 10% py, tr cpy | Felsenmeer |
| SL92042 | 0.03 | 57+94N | 52+86E | 2d, intense qtz-chl alteration, 5% py | Felsenmeer |
| SL92043 | 0.03 | 58+39N | 53+00E | 2c, well banded amph-mt, 2-5% py, qtz veins | Felsenmeer |
| SL92044 | 0.03 | 58+57N | 53+16E | qtz vein, 2% py | Felsenmeer |
| SL92045 | 0.03 | 59+26N | 53+00E | 2ca, mt-amph, 2-8% py | Felsenmeer |
| SL92046 | 0.85 | 59+95N | 52+26E | 2d, amph, qtz veins, 0.5% py | Felsenmeer |
| SL92047 | 1.54 | 58+93N | 52+40E | 2c, well banded amph-mt, 1% py, rare aspy | Outcrop |
| SL92048 | 0.27 | 58+05N | 51+32E | 2c, qtz-carb vein, 1% py | Outcrop |
| SL92049 | 0.10 | 57+20N | 49+58E | 2d, amph, intense chl-qtz veining, semi-massive py bands | Felsenmeer |
| SL92050 | 45.36 | 58+17N | 49+15E | 2c, amph, 10-15% py | Felsenmeer |
| SL92051 | 0.07 | 59+45N | 49+24E | 2d, amph-chl, qtz veins, 10% py | Outcrop |
| SL92052 | 4.15 | 59+26N | 49+20E | 2c, mt-amph, 10% py | Felsenmeer |
| SL92053 | 0.07 | 61+43N | 48+62E | 2d, amph-mt-chl, 0.5% py, tr aspy | Felsenmeer |

APPENDIX 6
 COMPILATION OF ROCK SAMPLE DESCRIPTIONS

AYERS

| Sample No. | Au g/t | Line | Station | Description | TYPE |
|------------|--------|--------|---------|--|-------------------|
| SL92068 | 0.10 | 52+30E | 52+07N | 2c, mt-amph, 2% py stringers | Felsenmeer |
| SL92069 | 0.03 | 53+05E | 52+00N | 2c, mt-amph, 2-3% py stringers | Felsenmeer |
| SL92070 | 4.80 | 53+12E | 51+77N | 2ca, mt-amph, up to 10% py, 2% aspy in qtz veins | Felsenmeer |
| SL92071 | 2.64 | 53+78E | 51+68N | 2ca, amph-mt, up to 10% py stringers, tr aspy in qtz veins | Felsenmeer |
| SL92072 | 17.76 | 54+10E | 51+68N | 20cm wide 2ca, amph-mt, 15% py, tr aspy with qtz veins | Outcrop-20cm chip |
| SL92073 | 5.69 | 54+07E | 51+58N | 2ca, well banded mt-amph, intense qtz veins, 10% py | Felsenmeer |
| SL92074 | 0.69 | 54+65E | 51+60N | 2da, qtz veins, 15-20% py, tr aspy | Felsenmeer |

DEPARTMENT OF INDIAN AND
NORTHWEST TERRITORIES
DEC 31 1992
MANITOBA DISTRICT
YELLOWKNIFE

1

083153

0250

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|---|--------|---------|--------|--|----------|--------------------|---|--------------------------|
| Permit/Claim BRAU 38 Location: Hammer Lake Grid Southing: 5993.70 metres Grid Easting: 7579.40 metres Ground Elevation: 276.60 metres Collar Height: 0.30 metres Hole - Azimuth: 337 degrees - Inclination: -55 degrees - Length: 127.71 metres | | | | To test for gold-bearing iron formation at an elevation of approximately 190m above sea level (82m below surface). | | | Date Started: July 9, 1992 Date Completed: July 10, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 25 Casing Length: 4.57m BW | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 26.52 | | -53.0 | 1 | GOCC | Gold Occurrence | 00751.4 | 013-027 |
| Rotodip | 57.00 | | -54.0 | 2 | PYRT | Pyrite | 00763.4 | 001-012; 028-029 |
| Rotodip | 87.48 | | -50.0 | 3 | ASP | Arsenopyrite | | |
| Rotodip | 117.96 | | -50.0 | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

083153

| 92T019 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 4 | |
|--------|-------|---|------|------|-----|------|------|------|------|-----|----------|--------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 69.10 | 70.20 | 2g | | | | | | | | | | | |
| 69.10 | 69.10 | 3f | | | | | | | | | | | |
| 70.20 | 75.50 | 2n | | | | | | | | | | | |
| 70.20 | 75.50 | 2g | | | | | | | | | | | |
| 70.20 | 70.20 | 3f | | | | | | | | | | | |
| 72.10 | 72.10 | 3f | | | | | | | | | | | |
| 74.50 | 74.50 | 3f | | | | | | | | | | | |
| 75.50 | 92.30 | 2n | | | | | | | | | | | |
| 75.50 | 92.30 | 2g | | | | | | | | | | | |
| 75.50 | 75.50 | 3f | | | | | | | | | | | |
| 76.50 | 77.00 | 3c | | | | | | | | | | | |
| 78.05 | 78.20 | 3c | | | | | | | | | | | |
| 78.30 | 81.00 | 3f | | | | | | | | | | | |

4a is medium grey, fine grained, moderately foliated and contains subrounded to elongate k-feldspars 1 to 3cm in diameter.

Contact 60 degrees to core axis, parallel to banding. Marked by 4mm wide gouge.

Greywacke (unit 1a), mudstone (unit 3c), oxide iron formation (unit 2c)

40% 1a, 30% 3c, and 30% 2c.

1a is light grey, and weakly to strongly foliated. Quartz veins (<5%) are discontinuous and contorted.

3c is black, primarily massive with graphite and slickensides on broken surfaces. Locally chert bands are present.

2c is primarily moderately banded (<1-2cm), magnetite, amphibole and black in colour. Locally chert bands (1-2cm) and chlorite are present.

Trace pyrite is present as random blebs, primarily adjacent to random <1cm wide carbonate-quartz veins (<5%).

Contact 40 degrees to core axis, parallel to banding.

Banding to core axis 60 degrees.

Banding to core axis 55 degrees.

Greywacke (unit 1a), sulphide-bearing silicate iron formation (unit 2da), oxide iron formation (unit 2c), sulphide-bearing quartz vein (unit 5a)

78% 1a, 11% 2da/2d, 5% 2c, 5% 5a/5b.

1a is massive to weakly bedded and foliated. Locally unit is chloritic.

2d is massive to well banded amphibole-chlorite-chert.

2c is well banded chert-magnetite-amphibole-chlorite.

Contact lost in broken core.

2d. Amphibole-chlorite-chert, 1% pyrite.

2da, 1a, 3% pyrite.

Brittle fault zone. Broken core with graphite and slickenside.

APPENDIX 4

DRILL LOGS AND GEOTECHNICAL DATA

(bound in a separate volume to this report)

| 92T019 | | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 6 | | | |
|--------|--------|------|---|------|------|-----|------|------|------|--------|--------|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 95.35 | 99.40 | 2g | Pyrite is present as random blebs and masses up to 0.5cm wide. | | | | | | | | | | |
| 95.35 | 96.95 | 3q | 50% 3c, 20% 1a, 20% 2d, 10% 5b, 5ba | 0 | 1 | 0 | 0 | 6 | 5 | 4 | 15 | 2T019008 | 0.38 |
| 95.35 | 95.35 | 4f | Contact 25 degrees to core axis. Graphite and slickensides. | | | | | | | | | | |
| 96.60 | 96.60 | 4f | Banding to core axis 45 degrees. | | | | | | | | | | |
| 96.95 | 98.05 | 3q | 60% 2da, 35% 3c, 5% 5. | 0 | 1 | 0 | 0 | 5 | 5 | trc | 4 | 2T019009 | <0.03 |
| 98.05 | 99.40 | 3q | 60% 2da, 30% 3c, 5% 2c, 5% 5 + 5b. | 0 | 1 | 0 | 0 | 3 | 6 | 3 | 5 | 2T019010 | <0.03 |
| 98.40 | 98.40 | 4f | Banding to core axis 45 degrees. | | | | | | | | | | |
| 99.02 | 99.02 | 4f | Brittle fault zone, gouge, graphite and slickensides. | | | | | | | | | | |
| 99.40 | 115.25 | 2n | Sulphide-bearing oxide iron formation (unit 2ca), oxide iron formation (unit 2c), sulphide-bearing quartz vein (unit 5a) | | | | | | | | | | |
| 99.40 | 115.25 | 2g | 50% 2ca, 26% 2c, 21% 5a, 5 and 5b and 3% 3c. 2c is well banded <1-4cm> chert-magnetite (hematite)-amphibole-grunerite. Locally unit is sheared and folded. Quartz veins are primarily ragged and irregular in outline and randomly oriented. Most have chlorite envelopes. Carbonate veins (ankerite) range from sharp in outline to random masses up to 2cm wide. Pyrite is present as random blebs and masses up to 2cm wide within the 2c and 5 units. It is also with magnetite (as replacement) coated with hematite. Arsenopyrite occurs as random to masses of anhedral to subhedral rhombs. Locally they form into aligned trains. | | | | | | | | | | |
| 99.40 | 100.25 | 3q | 2ca. | 0 | 2 | trc | 0 | 3 | 4 | trc | 3 | 2T019011 | 1.92 |
| 99.80 | 99.80 | 4f | Banding to core axis 50 degrees. | | | | | | | | | | |
| 100.25 | 100.95 | 3q | 60% 2c, 40% 5a. | 0 | 1 | trc | 0 | 32 | 8 | trc | 1 | 2T019012 | 3.04 |
| 100.95 | 101.55 | 3q | 95% 2ca, 5% 5. | 0 | 1.5 | trc | 0 | 4 | 1 | trc | 4 | 2T019013 | 3.14 |
| 101.55 | 102.45 | 3q | 85% 2ca, 15% 5a + 5b. | 4 | 4 | 1 | 0 | 8 | 8 | 5 | 6 | 2T019014 | 27.60 |

92T019

BACK RIVER JOINT VENTURE - GEOLOGICAL LOG

FROM 127.71

TO 127.71

CODE 1c

DESCRIPTION

End of Hole.

GOCC PYRT ASP

PYRH VQTZ

CLRT CBNT

VIN

ASSAYS

SAMPLE #

9/t

VISUAL ESTIMATE REPORT

HOLE: 92T019

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|--------|--------|-------|-------------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T019001 | 60.05 | 61.05 | 1.00 | 1a | 0 | 0 | 0 | 0 | tr | 0 | 0 | 0 | <0.03 |
| 2T019002 | 61.05 | 62.00 | 0.95 | 95% 2c, 5% 5b. | 0 | 1 | 0 | 0 | 3 | 8 | 2 | 5 | <0.03 |
| 2T019003 | 62.00 | 63.00 | 1.00 | 90% 2c, 10% 5b. | 0 | 1 | 0 | 0 | 7 | 5 | 3 | 3 | <0.03 |
| 2T019004 | 63.00 | 64.00 | 1.00 | 97% 2c, 3% 5b. | 0 | trc | 0 | 0 | 2 | 3 | 1 | 1 | 0.62 |
| 2T019005 | 84.15 | 85.25 | 1.10 | 50% 5a, 40% 2d, 10% 5b. | 0 | 3 | 0 | 0 | 30 | 15 | 3 | 15 | <0.03 |
| 2T019006 | 91.10 | 92.30 | 1.20 | 70% 2da, 30% 1a/3c. | 0 | 4 | 0 | 0 | 3 | 5 | 1 | 3 | 0.31 |
| 2T019007 | 94.50 | 95.35 | 0.85 | 4a. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | <0.03 |
| 2T019008 | 95.35 | 96.95 | 1.60 | 50% 3c, 20% 1a, 20% 2d, 10% 5b, 5ba | 0 | 1 | 0 | 0 | 6 | 5 | 4 | 15 | 0.38 |
| 2T019009 | 96.95 | 98.05 | 1.10 | 60% 2da, 35% 3c, 5% 5. | 0 | 1 | 0 | 0 | 5 | 5 | trc | 4 | <0.03 |
| 2T019010 | 98.05 | 99.40 | 1.35 | 60% 2da, 30% 3c, 5% 2c, 5% 5 + 5b. | 0 | 1 | 0 | 0 | 3 | 6 | 3 | 5 | <0.03 |
| 2T019011 | 99.40 | 100.25 | 0.85 | 2ca. | 0 | 2 | trc | 0 | 3 | 4 | trc | 3 | 1.92 |
| 2T019012 | 100.25 | 100.95 | 0.70 | 60% 2c, 40% 5a. | 0 | 1 | trc | 0 | 32 | 8 | trc | 1 | 3.04 |
| 2T019013 | 100.95 | 101.55 | 0.60 | 95% 2ca, 5% 5. | 0 | 1.5 | trc | 0 | 4 | 1 | trc | 4 | 3.14 |
| 2T019014 | 101.55 | 102.45 | 0.90 | 85% 2ca, 15% 5a + 5b. | 4 | 4 | 1 | 0 | 8 | 8 | 5 | 6 | 27.60 |
| 2T019015 | 102.45 | 103.30 | 0.85 | 65% 5a, 20% 2c, 10% 3c, 5% 5b. | 0 | 3 | 0.5 | 0 | 45 | 15 | 5 | 7 | 2.19 |
| 2T019016 | 103.30 | 104.45 | 1.15 | 50% 5a, 50% 2ca. | 1 | 2 | 0.5 | 0 | 40 | 8 | trc | 2 | 1.68 |
| 2T019017 | 104.45 | 105.25 | 0.80 | 75% 2ca, 25% 5 + 5b. | 0 | 2 | trc | 0 | 20 | 3 | 2 | 3 | 11.07 |
| 2T019018 | 105.25 | 105.95 | 0.70 | 90% 2ca, 10% 3c. | 0 | 2 | trc | 0 | 2 | 3 | 0.5 | 1 | 1.68 |
| 2T019019 | 105.95 | 106.95 | 1.00 | 2ca. | 0 | 2 | trc | 0 | 2 | 3 | 0.5 | 3 | 10.18 |
| 2T019020 | 106.95 | 107.75 | 0.80 | 95% 2ca, 5% 5a. | 0 | 2 | 0.5 | 0 | 4 | 6 | 0.5 | 2 | 28.73 |
| 2T019021 | 107.75 | 108.60 | 0.85 | 95% 2c, 5% 5. | 0 | 1 | 0 | 0 | 4 | 3 | trc | 1 | 1.41 |
| 2T019022 | 108.60 | 109.30 | 0.70 | 95% 2c, 5% 5. | 0 | trc | 0 | 0 | 5 | 2 | trc | 1 | 0.34 |
| 2T019023 | 109.30 | 110.55 | 1.25 | 80% 2ca, 20% 5a. | 2 | 3 | 1 | 0 | 18 | 5 | 2 | 3 | 14.13 |
| 2T019024 | 110.55 | 112.15 | 1.60 | 50% 2ca, 50% 5a. | 1 | 2 | 4 | 0 | 40 | 8 | trc | 3 | 19.37 |
| 2T019025 | 112.15 | 112.85 | 0.70 | 2c. | 0 | 0.5 | trc | 0 | 1 | 3 | trc | 1 | 3.70 |
| 2T019026 | 112.85 | 113.80 | 0.95 | 50% 2ca, 50% 5a. | 1 | 3 | 3 | 0 | 40 | 10 | trc | 1 | 10.94 |
| 2T019027 | 113.80 | 114.40 | 0.60 | 85% 2c, 15% 5. | 0 | 1 | 0 | 0 | 11 | 4 | trc | 1 | 0.99 |
| 2T019028 | 114.40 | 115.25 | 0.85 | 40% 2c, 35% 3c, 25% 5 + 5b. | 0 | 1 | 0 | 0 | 15 | 8 | 4 | 6 | 1.54 |
| 2T019029 | 115.25 | 116.00 | 0.75 | 3a. | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 4 | <0.03 |

BACK RIVER JOINT VENTURE

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: HAMMER LAKE

DDH NO: 92T019

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|------------------|-----------|
| 4.57 | 6.10 | 75 | 20 | lg | |
| 6.10 | 9.14 | 92 | 36 | L | |
| 9.14 | 12.19 | 84 | 23 | | |
| 12.19 | 15.24 | 100 | 26 | | |
| 15.24 | 18.29 | 100 | 51 | | |
| 18.29 | 21.34 | 100 | 72 | | |
| 21.34 | 24.38 | 97 | 41 | | |
| 24.38 | 27.43 | 100 | 30 | | |
| 27.43 | 30.48 | 100 | 40 | | |
| 30.48 | 33.53 | 97 | 46 | | |
| 33.53 | 35.05 | 72 | 16 | | |
| 35.05 | 36.58 | 120 | 92 | | |
| 36.58 | 39.01 | 98 | 58 | | |
| 39.01 | 42.06 | 100 | 69 | | |
| 42.06 | 44.20 | 82 | 61 | | |
| 44.20 | 45.72 | 115 | 76 | | |
| 45.72 | 47.24 | 95 | 53 | | |
| 47.24 | 48.16 | 98 | 10 | | |
| 48.16 | 50.29 | 95 | 55 | | |
| 50.29 | 51.82 | 100 | 62 | | |
| 51.82 | 53.04 | 86 | 33 | | |
| 53.04 | 54.86 | 121 | 50 | | |
| 54.86 | 56.69 | 96 | 7 | | |
| 56.69 | 57.91 | 82 | 10 | L | |
| 57.91 | 60.05 | 89 | 23 | | |
| 60.05 | 62.79 | 99 | 36 | lg, 2c | |
| 62.79 | 64.01 | 100 | 55 | L | |
| 64.01 | 67.06 | 97 | 72 | | |
| 67.06 | 68.28 | 82 | 57 | | |
| 68.28 | 70.10 | 115 | 76 | | |
| 70.10 | 71.32 | 100 | 17 | | |
| 71.32 | 73.15 | 86 | 44 | | |
| 73.15 | 74.68 | 72 | 33 | | |
| 74.68 | 76.20 | 138 | 72 | | |
| 76.20 | 79.25 | 89 | 36 | BFZ 79.00-79.25r | |
| 79.25 | 81.38 | 87 | 14 | BFZ 80.30-84.00r | |
| 81.38 | 83.21 | 63 | 36 | | |
| 83.21 | 85.04 | 97 | 36 | | |
| 85.04 | 88.09 | 95 | 50 | BFZ 87.05-87.50r | |
| 88.09 | 90.22 | 94 | 70 | | |
| 90.22 | 92.66 | 78 | 41 | | |
| 92.66 | 93.57 | 97 | 20 | | |
| 93.57 | 94.49 | 100 | 88 | | |
| 94.49 | 97.54 | 92 | 62 | | |
| | | | | 95.10-105.53 | R1-P1,2,3 |
| | | | | 105.53-116.20 | R1-P4 |

| LOCATION INFORMATION | | | | PURPOSE | | | | GENERAL INFORMATION | | | |
|--|-------|---------|--------|--|----------|--------------------|--------------|--|--|--|--|
| Permit/Claim BRAU 38 Location: Hammer Lake Grid Southing: 5954.40 metres Grid Easting: 7460.10 metres Ground Elevation: 294.09 metres Collar Height: 0.20 metres Hole - Azimuth: 337 degrees - Inclination: -45 degrees - Length: 91.44 metres | | | | To test for gold-bearing iron formation at an elevation of approximately 250m above sea level (44m below surface). | | | | Date Started: July 10, 1992 Date Completed: July 11, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 17 Casing Length: 3.05BW | | | |
| ORIENTATION TEST | | | | COLUMNS | | | | SAMPLE INFORMATION | | | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED | | | |
| Rotodip | 27.74 | | -43.0 | 1 | GOCC | Gold Occurrence | 00751.4 | 002-008; 014-017 001; 009-013; 018-024 | | | |
| Rotodip | 57.00 | | -44.0 | 2 | PYRT | Pyrite | 00763.4 | | | | |
| Rotodip | 81.38 | | -44.0 | 3 | ASP | Arsenopyrite | | | | | |
| | | | | 4 | PYRH | Pyrrhotite | | | | | |
| | | | | 5 | VQTZ | Vein Quartz | | | | | |
| | | | | 6 | CLRT | Chlorite | | | | | |
| | | | | 7 | CBNT | Carbonate | | | | | |
| | | | | 8 | VIN | Vein Intensity | | | | | |
| | | | | 9 | SAMPLE # | | | | | | |
| | | | | 10 | g/t | gold content by FA | | | | | |
| REMARKS | | | | | | | | | | | |
| | | | | | | | | | | | |

| 92T020 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | Page 3 | | |
|--------|-------|---|--|------|------|-----|------|------|------|--------|------------|----------|
| METRES | | CODE | DESCRIPTION | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # |
| 27.25 | 28.55 | 2g | 100% 4a. 4a is light grey, foliated and contains quartz and k-feldspar grains. | | | | | | | | | |
| 27.25 | 27.27 | 3f | Contact at 70 degrees to core axis. | | | | | | | | | |
| 28.55 | 45.35 | 2n | Oxide iron formation (unit 2c), greywacke (unit 1a), quartz vein (unit 5). | | | | | | | | | |
| 28.55 | 45.35 | 2g | 49% 2c, 43% 1a, and 8% 5. 2c is massive to well banded (<1-2cm) magnetite-amphibole with minor chert, grunerite and chlorite. Grunerite locally occurs as fine needles and rosettes. Primarily less than 1% pyrite occurs as random blebs. 1a is light grey, massive to poorly bedded. | | | | | | | | | |
| 28.55 | 29.05 | 3c | 70% 2c, 30% 1a. | | | | | | | | | |
| 28.55 | 28.55 | 4f | Contact at 70 degrees to core axis. | | | | | | | | | |
| 29.05 | 29.60 | 3c | 1a. | | | | | | | | | |
| 29.60 | 29.90 | 3c | 95% 2c, 5% 5. | | | | | | | | | |
| 29.80 | 29.80 | 4f | Banding to core axis 65 degrees. | | | | | | | | | |
| 29.90 | 31.00 | 3c | 70% 1a, 30% 2c. | | | | | | | | | |
| 31.00 | 32.90 | 3c | 85% 2c, 15% 1a. | | | | | | | | | |
| 32.90 | 33.50 | 3c | 5. | | | | | | | | | |
| 33.50 | 34.85 | 3c | 1a. | | | | | | | | | |
| 34.85 | 37.00 | 3c | 90% 2c, 10% 1a. | | | | | | | | | |
| 35.40 | 35.40 | 4f | Banding to core axis 65 degrees. | | | | | | | | | |
| 37.00 | 37.80 | 3c | 1a. | | | | | | | | | |
| 37.80 | 38.90 | 3c | 80% 2c, 20% 1a. | | | | | | | | | |
| 38.90 | 40.05 | 3c | 50% 1a, 50% 2c. | | | | | | | | | |
| 39.90 | 39.90 | 4f | Banding to core axis 60 degrees. | | | | | | | | | |
| 40.05 | 41.15 | 3q | 90% 2c, 10% 1a. | 0 | 0.5 | 0.5 | 0 | 2 | 5 | trc | 2 2T020001 | 0.82 |

| 92T020 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 8 | |
|--------|-------|---|------|------|-----|------|------|------|------|-----|----------|--------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | COCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 76.80 | 88.55 | 2n | | | | | | | | | | | |
| 76.80 | 88.55 | 2g | | | | | | | | | | | |
| 76.80 | 76.80 | 3f | | | | | | | | | | | |
| 82.00 | 82.00 | 3f | | | | | | | | | | | |
| 87.80 | 87.80 | 3f | | | | | | | | | | | |
| 88.55 | 89.00 | 2n | | | | | | | | | | | |
| 88.55 | 89.00 | 2g | | | | | | | | | | | |
| 88.55 | 88.55 | 3f | | | | | | | | | | | |
| 89.00 | 91.44 | 2n | | | | | | | | | | | |
| 89.00 | 91.44 | 2g | | | | | | | | | | | |
| 89.00 | 89.00 | 3f | | | | | | | | | | | |
| 90.60 | 90.60 | 3f | | | | | | | | | | | |
| 91.44 | 91.44 | 1c | | | | | | | | | | | |

Greywacke (unit 1a), mudstone (unit 3c)

75% 1a, 22% 3c and 3% 5.

Contact at 70 degrees to core axis.

Bedding to core axis 60 degrees.

Bedding to core axis 70 degrees.

Felsic dyke (unit 4a)

100% 4a.

4a is light grey when dry and light to medium pinkish grey when wet. It contains an aphanitic quartz-feldspar groundmass with fine to medium grained phenocrysts of biotite.

Contact sharp at 75 degrees to core axis.

Greywacke (unit 1a), mudstone (unit 3c).

50% 1a, and 50% 3c.

Contact sharp at 70 degrees to core axis.

Bedding to core axis 70 degrees.

End of Hole.

VISUAL ESTIMATE REPORT

HOLE: 92T020

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|--------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T020001 | 40.05 | 41.15 | 1.10 | 90% 2c, 10% 1a. | 0 | 0.5 | 0.5 | 0 | 2 | 5 | trc | 2 | 0.82 |
| 2T020002 | 49.70 | 50.60 | 0.90 | 3a. | 0 | trc | 0 | 0 | 0 | 0 | 0 | 0 | 0.10 |
| 2T020003 | 50.60 | 51.82 | 1.22 | 65% 2c, 35% 5a. | 1 | 1 | 0.5 | 0 | 25 | 10 | trc | 1 | 0.14 |
| 2T020004 | 51.82 | 52.42 | 0.60 | 2c. | 0 | trc | 0 | 0 | 0 | 4 | 0 | 0 | <0.03 |
| 2T020005 | 52.42 | 53.30 | 0.88 | 95% 2c, 5% 5. | 0 | trc | 0 | 0 | 3 | 2 | 0 | 3 | <0.03 |
| 2T020006 | 53.30 | 53.90 | 0.60 | 2c. | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | <0.03 |
| 2T020007 | 53.90 | 54.86 | 0.96 | 70% 2c, 30% 5a. | 1 | 2 | 0.5 | 0 | 20 | 8 | 0.5 | 3 | 1.47 |
| 2T020008 | 54.86 | 55.45 | 0.59 | 2c. | 0 | trc | 0 | 0 | 3 | 2 | 0 | 1 | 0.14 |
| 2T020009 | 55.45 | 56.30 | 0.85 | 85% 2c, 15% 5. | 0 | trc | 0 | 0 | 10 | 5 | 0 | 2 | 0.34 |
| 2T020010 | 56.30 | 57.00 | 0.70 | 90% 2c, 10% 5 and 5a. | 0 | 0.5 | 1 | 0 | 7 | 3 | 0.5 | 2 | 0.48 |
| 2T020011 | 57.00 | 57.80 | 0.80 | 95% 2c, 5% 5. | 0 | 0.5 | 0 | 0 | 3 | 2 | 0.5 | 2 | <0.03 |
| 2T020012 | 62.70 | 63.55 | 0.85 | 90% 2c, 10% 5a. | 0 | 0.5 | 0 | 0 | 7 | 3 | trc | 2 | <0.03 |
| 2T020013 | 63.55 | 64.15 | 0.60 | 95% 2c, 5% 5. | 0 | trc | 0 | 0 | 4 | 1 | trc | 1 | <0.03 |
| 2T020014 | 64.15 | 64.95 | 0.80 | 60% 2c, 40% 5. | 0 | trc | 0 | 0 | 32 | 8 | 0.5 | 2 | 7.03 |
| 2T020015 | 64.95 | 65.95 | 1.00 | 50% 2ca, 50% 5a. | 1 | 4 | 1 | 0 | 35 | 15 | 0.5 | 5 | 2.66 |
| 2T020016 | 65.95 | 66.65 | 0.70 | 85% 2ca, 15% 5 and 5a. | 0 | 3 | 0.5 | 0 | 15 | 10 | 0.5 | 6 | 0.58 |
| 2T020017 | 66.65 | 67.25 | 0.60 | 2c. | 0 | trc | trc | 0 | 0 | 2 | 0 | 0 | 0.17 |
| 2T020018 | 67.25 | 68.00 | 0.75 | 95% 2c, 5% 5. | 0 | 0.5 | 0 | 0 | 4 | 2 | 0 | 4 | <0.03 |
| 2T020019 | 68.00 | 69.00 | 1.00 | 95% 2c, 5% 5a. | 0 | trc | trc | 0 | 4 | 2 | trc | 1 | 0.20 |
| 2T020020 | 69.00 | 70.00 | 1.00 | 85% 2c, 15% 5. | 0 | 0.5 | 0 | 0 | 12 | 5 | trc | 4 | 0.10 |
| 2T020021 | 70.00 | 71.30 | 1.30 | 85% 2c, 10% 1a, 5% 5. | 0 | trc | 0 | 0 | 4 | 6 | 0 | 2 | 0.41 |
| 2T020022 | 71.30 | 72.40 | 1.10 | 50% 2ca, 50% 1a. | 0 | 1 | 0 | 0 | 3 | 8 | 0.5 | 2 | <0.03 |
| 2T020023 | 72.40 | 73.30 | 0.90 | 50% 1a, 30% 2da, 20% 5a. | 0 | 2 | 0 | 0 | 10 | 10 | 0.5 | 3 | 0.10 |
| 2T020024 | 73.30 | 74.30 | 1.00 | 50% 3c, 50% 1a. | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 1.09 |

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: HAMMER LAKE

DDH NO: 92T020

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|--|-------------------|
| 0 | 3.05 | | | CASING | |
| 3.05 | 5.49 | 72 | 24 | 1a | |
| 5.49 | 7.01 | 79 | 32 | ↓ | |
| 7.01 | 8.53 | 88 | 50 | | ADJUST? |
| * 8.53 | 10.36 | 111 | 102 | Actual core length > 6' | Blocks |
| 10.36 | 11.58 | 83 | 64 | | |
| 11.58 | 14.63 | 99 | 76 | | |
| 14.63 | 17.68 | 97 | 57 | | |
| 17.68 | 20.72 | 98 | 67 | | |
| 20.72 | 21.95 | 81 | 54 | | |
| 21.95 | 23.77 | 97 | 60 | | |
| 23.77 | 25.91 | 98 | 47 | BFZ 25.71-25.91 Broken | |
| 25.91 | 28.04 | 77 | 23 | BFZ 25.91-26.54 | |
| 28.04 | 29.87 | 98 | 68 | | |
| 29.87 | 31.70 | 78 | 42 | | |
| 31.70 | 33.83 | 84 | 31 | Broken core | ADJUST? |
| * 33.83 | 35.97 | 113 | 74 | Actual core length > 7' | Blocks |
| 35.97 | 38.71 | 96 | 44 | | |
| 38.71 | 41.76 | 100 | 80 | | |
| 41.76 | 42.37 | 66 | 41 | | |
| 42.37 | 44.81 | 86 | 66 | | |
| 44.81 | 45.72 | 90 | 50 | | |
| 45.72 | 48.77 | 100 | 95 | | 47:00-57:30 R1-P5 |
| 48.77 | 51.82 | 100 | 66 | | 57:30-67:63 R1-P6 |
| 51.82 | 54.86 | 98 | 80 | 51.82-52.00m CAVE (CLAY??) 67:65-78:45 | R1-P7 |
| 54.86 | 57.91 | 98 | 95 | | |
| 57.91 | 60.96 | 97 | 52 | | |
| 60.96 | 64.01 | 97 | 77 | | |
| 64.01 | 67.06 | 102 | 92 | | |
| 67.06 | 70.10 | 90 | 75 | | |
| 70.10 | 73.15 | 97 | 46 | 71:00-71:80 BFZ | |
| 73.15 | 76.20 | 90 | 66 | | |
| 76.20 | 79.25 | 100 | 66 | | |
| 79.25 | 82.30 | 98 | 59 | | |
| 82.30 | 85.34 | 98 | 84 | | |
| 85.34 | 88.39 | 100 | 75 | | |
| 88.39 | 91.44 | 100 | 72 | | |
| 91.44 | | | | CGH | |

92T021

BACK RIVER JOINT VENTURE - GEOLOGICAL LOG

Page 1 of 9

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|--|-------|---------|--------|--|----------|--------------------|---|--------------------------|
| Permit/Claim BRAU 37 Location: Rooster Lake Grid Southing: 6102.40 metres Grid Easting: 5780.00 metres Ground Elevation: 307.22 metres Collar Height: 0.20 metres Hole - Azimuth: 337 degrees - Inclination: -55 degrees - Length: 121.31 metres | | | | To test for gold-bearing iron formation at an elevation of approximately 225m above sea level (80m below surface.) | | | Date Started: July 11, 1992 Date Completed: July 12, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 23 Casing Length: 3.05 BW | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 27.74 | | -55.0 | 1 | GOCC | Gold Occurrence | 00751.4 | 014-023 |
| Rotodip | 56.39 | | -51.0 | 2 | PYRT | Pyrite | 00763.4 | 001-013; 024-025 |
| Rotodip | 87.87 | | -49.0 | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

92T021

| 92T021 | | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 7 | | | |
|--------|--------|------|--|------|------|-----|------|------|------|--------|--------|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 97.70 | 103.40 | 2g | <p>Quartz vein is primarily massive light grey-white. Locally it is cut by chlorite filled fractures that may contain pyrite, pyrrhotite and/or arsenopyrite. Its upper contact is sharp with a 2-4cm wide zone of wallrock containing sulphides. Its lower contact is oriented parallel to core axis and has altered the iron formation with chlorite-grunerite-sulphides.</p> <p>Pyrrhotite and pyrite occur as random blebs and masses up to 1cm wide in chlorite and in fractures.</p> <p>Arsenopyrite occurs as random to weakly aligned subhedral rhombs 1mm to 5mm wide.</p> <p>2ca consists of banded (<1cm) magnetite-grunerite-amphibole.</p> | | | | | | | | | | |
| 97.70 | 98.50 | 3q | 5. | 0 | 0.5 | trc | 0 | 80 | 20 | 1 | 1 | 2T021015 | <0.03 |
| 97.70 | 97.70 | 4f | Contact at 15 degrees to core axis. | | | | | | | | | | |
| 98.50 | 99.30 | 3q | 5. | 0 | 0 | 0 | 0 | 98 | 2 | trc | 1 | 2T021016 | <0.03 |
| 99.30 | 100.00 | 3q | 5. | 0 | trc | 0 | trc | 98 | 1 | 1 | 1 | 2T021017 | <0.03 |
| 100.00 | 101.12 | 3q | 5. | 1 | 0 | 0.5 | 0.5 | 88 | 10 | trc | 1 | 2T021018 | 7.07 |
| 100.85 | 100.88 | 4c | One occurrence of visible gold consisting of 2 groups of about 12 specks each, 2cm apart in chlorite filled fractures. | | | | | | | | | | |
| 101.12 | 102.16 | 3q | 5. | 0 | 0 | 0 | trc | 98 | 2 | trc | 1 | 2T021019 | 0.21 |
| 102.16 | 103.40 | 3q | 60% 2ca, 40% 5. | 0 | 0 | 0.5 | 2 | 30 | 20 | trc | 5 | 2T021020 | 0.75 |
| 103.20 | 103.20 | 4f | Banding to core axis 15 degrees. | | | | | | | | | | |
| 103.40 | 108.00 | 2n | Greywacke (unit 1a), sulphide-bearing silicate iron formation (unit 2da), quartz vein (unit 5), oxide iron formation (unit 2c) | | | | | | | | | | |
| 103.40 | 108.00 | 2g | <p>32% 1a, 26% 2da, 25% 5 and 5b and 18% 2c.</p> <p>1a is strongly foliated and cut by <1-2cm wide barren quartz veins.</p> <p>2d consists of chlorite-grunerite +/- sulphides and are cut by quartz veins with chlorite. These veins are ragged in shape.</p> <p>Pyrrhotite and pyrite occur as random blebs and masses.</p> | | | | | | | | | | |
| 103.40 | 104.45 | 3q | <p>Arsenopyrite occurs as random, 1-3mm wide subhedral rhombs.</p> <p>50% 1a, 50% 2c.</p> | 0 | 0 | trc | 1 | 3 | 8 | 1 | 1 | 2T021021 | 1.12 |

92T021

BACK RIVER JOINT VENTURE - GEOLOGICAL LOG

FROM 121.31

TO 121.31

CODE 1c

DESCRIPTION

End of Hole.

METRES

ASSAYS

GCCC PYRT ASP PYRH VGTZ CLRT CBNT VIN SAMPLE # g/t

BACK RIVER JOINT VENTURE

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: HATMER LAKE

DDH NO: 92T022

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|---------------|--------|
| 0 | 3.05 | | | CASING | |
| 3.05 | 5.18 | 94% | 11% | | |
| 5.18 | 8.23 | 100% | 45% | | |
| 8.23 | 10.06 | 100% | 42% | | |
| 10.06 | 11.58 | 98% | 80% | | |
| 11.58 | 14.63 | 98% | 61% | | |
| 14.63 | 17.88 | 100% | 79% | | |
| 17.88 | 20.42 | 100% | 79% | | |
| 20.42 | 23.47 | 98% | 50% | | |
| 23.47 | 26.82 | 100% | 55% | | |
| 26.82 | 29.87 | 98% | 35% | | |
| 29.87 | 32.92 | 100% | 77% | | |
| 32.92 | 35.66 | 100% | 40% | | |
| 35.66 | 38.71 | 100% | 48% | | |
| 38.71 | 39.32 | 82% | 7% | | |
| 39.32 | 42.06 | 97% | 37% | | |
| 42.06 | 44.20 | 100% | 21% | | |
| 44.20 | 44.20 | | | | |
| 44.20 | 45.11 | 104 | 86 | | |
| 45.11 | 48.16 | 96 | 65 | | |
| 48.16 | 51.21 | 97 | 78 | | |
| 51.21 | 54.25 | 97 | 83 | | |
| 54.25 | 57.30 | 96 | 77 | | |
| 57.30 | 60.35 | 98 | 69 | | |
| 60.35 | 63.40 | 98 | 87 | | |
| 63.40 | 66.45 | 100 | 78 | | |
| 66.45 | 69.49 | 100 | 94 | | |
| 69.49 | 72.54 | 100 | 78 | | |
| 72.54 | 75.59 | 100 | 78 | | |
| 75.59 | 78.64 | 95 | 85 | | |
| 78.64 | 81.69 | 102 | 95 | | |
| 81.69 | 84.73 | 97 | 80 | 82-10-93-05 | R1-P8 |
| 84.73 | 87.78 | 100 | 82 | 93-05-104-03 | R1-P9 |
| 87.78 | 90.83 | 100 | 79 | 104-02-114-62 | R1-P11 |
| 90.83 | 93.88 | 100 | 75 | | |
| 93.88 | 96.93 | 97 | 93 | | |
| 96.93 | 99.97 | 99 | 86 | | |
| 99.97 | 103.02 | 100 | 90 | | |
| 103.02 | 106.07 | 99 | 74 | | |
| 106.07 | 109.12 | 100 | 83 | | |
| 109.12 | 112.17 | 98 | 75 | | |
| 112.17 | 115.21 | 100 | 30 | | |
| 115.21 | 118.26 | 98 | 92 | | |
| 118.26 | 121.31 | 100 | 82 | E.O.14 | |

| 92T022 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | Page 1 of 9 | |
|--|--------|---|--------|--|----------|--------------------|---|--------------------------|--|
| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | | |
| Permit/Claim BRAU 37 Location: Rooster Lake Grid Southing: 6096.10 metres Grid Easting: 5860.00 metres Ground Elevation: 306.68 metres Collar Height: 0.20 metres Hole - Azimuth: 337 degrees - Inclination: -55 degrees - Length: 121.31 metres | | | | To test for gold-bearing iron formation at an elevation of approximately 235m above sea level (71m below surface). | | | Date Started: July 12, 1992 Date Completed: July 13, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 23 Casing Length: 2.13 BW | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED | |
| Acid | 121.31 | | -48.0 | 1 | GOCC | Gold Occurrence | 00751.4 | 011-018; 021-023 | |
| | | | | 2 | PYRT | Pyrite | 00763.4 | 001-010; 019-020; 024 | |
| | | | | 3 | ASP | Arsenopyrite | | | |
| | | | | 4 | PYRH | Pyrrhotite | | | |
| | | | | 5 | VQTZ | Vein Quartz | | | |
| | | | | 6 | CLRT | Chlorite | | | |
| | | | | 7 | CBNT | Carbonate | | | |
| | | | | 8 | VIN | Vein Intensity | | | |
| | | | | 9 | SAMPLE # | | | | |
| | | | | 10 | Au g/t | gold content by FA | | | |
| REMARKS | | | | | | | | | |
| | | | | | | | | | |

VISUAL ESTIMATE REPORT

HOLE: 92T022

September 21, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|--------|--------|-------|------------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T022001 | 77.00 | 77.80 | 0.80 | 1a. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <0.03 |
| 2T022002 | 77.80 | 78.95 | 1.15 | 55% 1a, 40% 2ca, 5% 5ba | 0 | 0 | 0 | 2 | 1 | 8 | 4 | 5 | <0.03 |
| 2T022003 | 78.95 | 79.60 | 0.65 | 1a. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <0.03 |
| 2T022004 | 79.60 | 80.60 | 1.00 | 2c. | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 3 | <0.03 |
| 2T022005 | 80.60 | 81.20 | 0.60 | 50% 1a, 50% 2c. | 0 | 0 | 0 | 0.5 | 2 | 2 | trc | 4 | <0.03 |
| 2T022006 | 81.20 | 82.30 | 1.10 | 2c. | 0 | 0 | 0 | trc | 1 | 1 | trc | 3 | <0.03 |
| 2T022007 | 82.30 | 83.00 | 0.70 | 1a. | 0 | 0 | 0 | 0 | 2 | trc | trc | 4 | <0.03 |
| 2T022008 | 83.00 | 83.95 | 0.95 | 90% 1a, 10% 5. | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 6 | <0.03 |
| 2T022009 | 83.95 | 85.05 | 1.10 | 50% 5ba and 5b, 30% 1a and 20% 2c. | 0 | 0.5 | 0.5 | 0.5 | 35 | 15 | 3 | 5 | <0.03 |
| 2T022010 | 85.05 | 85.80 | 0.75 | 50% 2ca, 40% 1a, 10% 5b and 5. | 0 | 0.5 | 0 | 1 | 6 | 3 | 4 | 3 | <0.03 |
| 2T022011 | 85.80 | 86.40 | 0.60 | 60% 2ca, 45% 1a, 5% 5b. | 0 | 0 | 0.5 | 0.5 | 3 | 8 | 2 | 3 | 0.17 |
| 2T022012 | 86.40 | 87.65 | 1.25 | 85% 2ca, 15% 5a and 5ba. | 5 | 5 | 4 | 0 | 10 | 25 | 5 | 5 | 5.50 |
| 2T022013 | 87.65 | 88.30 | 0.65 | 2c. | 0 | trc | trc | 0.5 | 3 | 5 | trc | 2 | 3.34 |
| 2T022014 | 88.30 | 89.55 | 1.25 | 90% 2ca, 10% 5a and 5. | 1 | 0.5 | 3 | 5 | 8 | 8 | trc | 5 | 7.03 |
| 2T022015 | 89.55 | 90.90 | 1.35 | 45% 2ca, 35% 5a and 20% 2c. | 0 | 0 | 0.5 | 2 | 20 | 15 | trc | 3 | 3.81 |
| 2T022016 | 90.90 | 91.65 | 0.75 | 90% 2c, 10% 5 and 5a. | 0 | trc | 0.5 | 0.5 | 8 | 5 | trc | 2 | 3.43 |
| 2T022017 | 91.65 | 92.35 | 0.70 | 80% 2c, 20% 5b. | 1 | trc | trc | 0.5 | 15 | 3 | 2 | 3 | 9.98 |
| 2T022018 | 92.35 | 93.33 | 0.98 | 3c. | 0 | 0 | 0 | 0 | 1 | 0 | trc | 3 | <0.03 |
| 2T022019 | 103.02 | 104.00 | 0.98 | 75% 2c, 15% 5, 10% 1a. | 0 | 0 | 0 | trc | 10 | 7 | trc | 6 | <0.03 |
| 2T022020 | 104.00 | 104.90 | 0.90 | 1a. | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 5 | <0.03 |
| 2T022021 | 104.90 | 105.55 | 0.65 | 85% 1a, 15% 5. | 0 | trc | 0 | 0 | 15 | 2 | trc | 10 | 0.10 |
| 2T022022 | 105.55 | 106.78 | 1.23 | 70% 2ca, 30% 5a and 5ba. | 0 | 2 | 2 | trc | 20 | 8 | 3 | 8 | 12.69 |
| 2T022023 | 106.78 | 107.28 | 0.50 | 30% 2ca, 30% 2d, 30% 3b and 10% 5. | 0 | 0 | 0 | 0.5 | 8 | 10 | 0 | 4 | 0.07 |
| 2T022024 | 107.28 | 108.07 | 0.79 | 50% 1a, 45% 3a and 5% 5. | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 6 | <0.03 |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | | |
|---|--|--|--------|---------|--|--------------------|---------------------|--------------------------|--|
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED | |
| Permit/Claim Location: Grid Southing: Grid Easting: Ground Elevation: Collar Height: Hole - Azimuth: - Inclination: - Length: | BRAU 37 Rooster Lake 6068.20 metres 5980.00 metres 306.64 metres 0.00 metres 337 degrees -45 degrees 106.07 metres | To test for gold-bearing iron formation at an elevation of approximately 260m above sea level (41m below surface). | | | Date Started: July 13, 1992 Date Completed: July 14, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 19 Casing Length: 3.05m BW | | | | |
| Acid | 53.39 | | -41.0 | 1 | GOCC | Gold Occurrence | 00763.4 | 001-009; 013-015 | |
| Acid | 106.07 | | -42.0 | 2 | PYRT | Pyrite | 00751.4 | 010-012; 016-021 | |
| | | | | 3 | ASP | Arsenopyrite | | | |
| | | | | 4 | PYRH | Pyrrhotite | | | |
| | | | | 5 | VQTZ | Vein Quartz | | | |
| | | | | 6 | CLRT | Chlorite | | | |
| | | | | 7 | CBNT | Carbonate | | | |
| | | | | 8 | VIN | Vein Intensity | | | |
| | | | | 9 | SAMPLE # | | | | |
| | | | | 10 | Au g/t | gold content by FA | | | |
| REMARKS | | | | | | | | | |
| | | | | | | | | | |

| 92T023 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 4 | |
|--------|-------|---|--|------|------|-----|------|------|------|------|--------|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 51.74 | 67.89 | 1n | 5a)/sulphide-bearing oxide iron formation (unit 2ca). | | | | | | | | | | |
| 51.74 | 60.07 | 2n | Oxide iron formation (unit 2c), greywacke (unit 1a), carbonate and sulphide-bearing quartz vein (5ba), intermediate dyke (unit 4b), mudstone (unit 3c) | | | | | | | | | | |
| 51.74 | 60.07 | 2g | 39% 2c, 33% 1a, 12% 5ba, 5b and 5, 7% 4b, 7% 2ca and 2% 3c. Interbedded 2c, 1a and minor 3c. 2c ranges from well banded (<1-2cm) chert-magnetite-amphibole-grunerite to massive amphibole-chlorite with or without fine to medium needles and rosettes of grunerite-amphibole. Sections of the 2c unit have been strongly silicified. 1a are weakly to well bedded and contain biotite. 4b unit is medium grey and fine grained with 5% <1-5mm wide subrounded quartz and feldspar grains. Quartz and quartz-carbonate (calcite) veins up to 10cm wide are sharp in outline and are oriented subparallel to core axis. Most have chlorite-amphibole envelopes which contain sulphides. Carbonate (calcite) veins are up to 2cm wide, are jagged in outline and randomly oriented. Pyrite and minor pyrrhotite occur as random blebs primarily adjacent to quartz veins. Arsenopyrite occurs as random to partially aligned fine grained, subhedral to euhedral, needles and rhombs. | | | | | | | | | | |
| 51.74 | 52.82 | 3q | 45% 2c, 35% 1a, 20% 5. | 0 | 0 | 0 | trc | 18 | 15 | trc | 10 | 2T023002 | 0.65 |
| 51.74 | 51.74 | 4f | Contact at 10 degrees to core axis. Quartz vein. | | | | | | | | | | |
| 52.82 | 53.82 | 3q | 95% 2c, 5% 5b. | 0 | 0.5 | trc | trc | 4 | 8 | trc | 2 | 2T023003 | <0.03 |
| 52.82 | 53.82 | 3f | Bedding to core axis rotates from 70 degrees to 90 degrees to 50 degrees. | | | | | | | | | | |
| 53.82 | 55.15 | 3q | 95% 1a, 5% 5b. | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 15 | 2T023004 | <0.03 |
| 55.15 | 56.26 | 3q | 50% 1a, 30% 5ba and 20% 5b. | 0 | 0 | trc | 1 | 40 | 8 | 3 | >20 | 2T023005 | <0.03 |

VISUAL ESTIMATE REPORT

ROLE: 92T023

September 23, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|------------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T023001 | 32.00 | 33.10 | 1.10 | 40% 1a, 30% 2ca, 20% 3c and 10% 5. | 0 | trc | trc | 0.5 | 8 | 8 | trc | 3 | <0.03 |
| 2T023002 | 51.74 | 52.82 | 1.08 | 45% 2c, 35% 1a, 20% 5. | 0 | 0 | 0 | trc | 18 | 15 | trc | 10 | 0.65 |
| 2T023003 | 52.82 | 53.82 | 1.00 | 95% 2c, 5% 5b. | 0 | 0.5 | trc | trc | 4 | 8 | trc | 2 | <0.03 |
| 2T023004 | 53.82 | 55.15 | 1.33 | 95% 1a, 5% 5b. | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 15 | <0.03 |
| 2T023005 | 55.15 | 56.26 | 1.11 | 50% 1a, 30% 5ba and 20% 5b. | 0 | 0 | trc | 1 | 40 | 8 | 3 | >20 | <0.03 |
| 2T023006 | 56.26 | 57.32 | 1.06 | 55% 4b, 40% 1a, and 5% 5. | 0 | 0 | 0 | 0 | 5 | trc | 0 | 6 | 0.07 |
| 2T023007 | 57.32 | 58.09 | 0.77 | 80% 2ca, 20% 3c. | 0 | 2 | trc | trc | 1 | trc | trc | 1 | <0.03 |
| 2T023008 | 58.09 | 59.00 | 0.91 | 80% 2c, 15% 3c and 5% 5b and 5ba. | 0 | 1 | trc | trc | 4 | 5 | 1 | 4 | <0.03 |
| 2T023009 | 59.00 | 60.07 | 1.07 | 90% 2c, 10% 1a. | 0 | 0.5 | 0 | 0.5 | 2 | 6 | trc | 3 | <0.03 |
| 2T023010 | 60.07 | 61.20 | 1.13 | 3c. | 0 | trc | 0 | 0 | 4 | 1 | 1 | 10 | <0.03 |
| 2T023011 | 61.20 | 62.41 | 1.21 | 45% 5a, 30% 2ca and 25% 2c. | 1 | 3 | 0.5 | 0 | 35 | 15 | trc | 1 | 0.96 |
| 2T023012 | 62.41 | 63.11 | 0.70 | 2c. | 0 | trc | 0 | 0 | 2 | 1 | 0 | 1 | <0.03 |
| 2T023013 | 63.11 | 64.00 | 0.89 | 95% 2c, 5% 5. | 0 | trc | 0 | 0 | 5 | 2 | trc | 1 | <0.03 |
| 2T023014 | 64.00 | 65.00 | 1.00 | 2c. | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | <0.03 |
| 2T023015 | 65.00 | 66.00 | 1.00 | 2c. | 0 | trc | 0 | 0 | 1 | 2 | 0 | 1 | <0.03 |
| 2T023016 | 66.00 | 66.81 | 0.81 | 90% 2c, 10% 5. | 0 | trc | 0 | 0 | 8 | 3 | trc | 4 | 0.38 |
| 2T023017 | 66.81 | 67.89 | 1.08 | 65% 5a, 35% 2c. | 0 | 3 | 1 | 0 | 55 | 10 | trc | 1 | 6.43 |
| 2T023018 | 67.89 | 69.00 | 1.11 | 90% 3a, and 10% 1a. | 0 | 0 | 0 | 0 | 3 | 0 | trc | 2 | <0.03 |
| 2T023019 | 95.50 | 96.65 | 1.15 | 50% 1a, 45% 3c and 5% 5. | 0 | 0 | 0 | 0 | 5 | 1 | 0.5 | 6 | <0.03 |
| 2T023020 | 96.65 | 97.80 | 1.15 | 50% 5a, 35% 2c and 15% 3c. | 1 | 2 | 2 | 0 | 40 | 8 | 4 | 12 | 2.90 |
| 2T023021 | 97.80 | 98.60 | 0.80 | 75% 2c, 25% 3c. | 0 | trc | 0 | 0 | 2 | 2 | trc | 2 | 0.24 |

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: ROOSTER

DDH NO: 92T023

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|------------------|--------|
| 3.05 | 5.49 | 70 | ? | Ground core | |
| 5.49 | 8.53 | 102 | 77 | | |
| 8.53 | 11.58 | 100 | 79 | | |
| 11.58 | 14.63 | 98 | 76 | Some ground core | |
| 14.63 | 17.68 | 100 | 66 | | |
| 17.68 | 20.73 | 100 | 56 | | |
| 20.73 | 23.77 | 100 | 85 | | |
| 23.77 | 26.82 | 100 | 82 | | |
| 26.82 | 29.87 | 100 | 92 | | |
| 29.87 | 32.92 | 100 | 89 | | |
| 32.92 | 35.97 | 98 | 95 | | |
| 35.97 | 39.01 | 100 | 85 | | |
| 39.01 | 42.06 | 100 | 75 | | |
| 42.06 | 45.11 | 100 | 93 | | |
| 45.11 | 48.16 | 100 | 92 | | |
| 48.16 | 51.21 | 100 | 95 | | |
| 51.21 | 54.25 | 100 | 85 | | |
| 54.25 | 57.30 | 100 | 93 | | |
| 57.30 | 60.35 | 100 | 93 | | |
| 60.35 | 63.40 | 100 | 95 | | |
| 63.40 | 66.45 | 100 | 85 | | |
| 66.45 | 69.49 | 100 | 75 | | |
| 69.49 | 72.54 | 100 | 67 | | |
| 72.54 | 75.59 | 102 | 92 | | |
| 75.59 | 78.64 | 95 | 62 | | |
| 78.64 | 81.69 | 95 | 70 | 41.00-58.09 | R1-P16 |
| 81.69 | 84.73 | 100 | 64 | 58.09-69.00 | P7 |
| 84.73 | 87.78 | 95 | 66 | 69.80-100.83 | P8 |
| 87.78 | 90.83 | 100 | 85 | | |
| 90.83 | 93.88 | 100 | 95 | | |
| 93.88 | 96.93 | 100 | 93 | | |
| 96.93 | 99.97 | 100 | 90 | | |
| 99.97 | 103.02 | 100 | 97 | | |
| 103.02 | 106.07 | 100 | 90 | | |
| 106.07 | | | | EOH | |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|---------------|---------|--------|--|----------|--------------------|--|---|
| Permit/Claim | BRAU 48 | | | To test for gold-bearing iron formation at an elevation of approximately 195m above sea level (77m below surface). | | | Date Started: July 15, 1992 Date Completed: July 16, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 22 Casing Length: 3.05m BW | |
| Location: | Scorpion Lake | | | | | | | |
| Grid Northing: | 5210.00 | metres | | | | | | |
| Grid Easting: | 5011.70 | metres | | | | | | |
| Ground Elevation: | 285.01 | metres | | | | | | |
| Collar Height: | 0.30 | metres | | | | | | |
| Hole - Azimuth: | 057 | degrees | | | | | | |
| - Inclination: | -45 | degrees | | | | | | |
| - Length: | 118.26 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| | 0.00 | | -0.0 | 1 | GOCC | Gold Occurrence | 00826.4 | 001-002; 006-008; 010-012; 015-016 003-005; 009; 013-014 |
| | | | | 2 | PYRT | Pyrite | 00827.4 | |
| | | | | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |

| 92T024 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 4 | | |
|--------|--------|---|--|------|------|-----|------|------|------|------|-----|----------|------|--|
| METRES | | CODE | DESCRIPTION | | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 77.40 | 84.55 | 2n | Greywacke (unit 1a) | | | | | | | | | | | |
| 77.40 | 84.55 | 2g | 85% 1a, 10% 5 and 5b and 5% 3c. 1a is massive and weakly sheared. Quartz and carbonate veins up to 5cm wide are oriented perpendicular to core axis. 1a adjacent to the quartz veins has been sericitized. | | | | | | | | | | | |
| 77.40 | 77.40 | 3f | Contact at 65 degrees to core axis. | | | | | | | | | | | |
| 84.55 | 90.20 | 2n | Mudstone (unit 3c), greywacke (unit 1a) | | | | | | | | | | | |
| 84.55 | 90.20 | 2g | 65% 3c, 30% 1a and 5% 5 and 5b. Interbedded 3c and 1a. | | | | | | | | | | | |
| 84.55 | 84.55 | 3f | Contact at 60 degrees to core axis. | | | | | | | | | | | |
| 86.50 | 86.50 | 3f | Bedding to core axis 65 degrees. | | | | | | | | | | | |
| 89.12 | 90.20 | 3q | 3c. | 0 | 0 | 0 | trc | 3 | 1 | 0 | 6 | 2T024001 | 0.58 | |
| 90.20 | 110.30 | 1n | Oxide iron formation (unit 2c)/sulphide-bearing oxide iron formation (unit 2ca)/ mudstone (unit 3c)/greywacke (unit 1a)/ intermediate dyke (unit 4b)/ quartz vein (unit 5) | | | | | | | | | | | |
| 90.20 | 95.20 | 2n | Sulphide-bearing oxide iron formation (unit 2ca), oxide iron formation (unit 2c) | | | | | | | | | | | |
| 90.20 | 95.20 | 2g | 78% 2ca, 12% 2c, 8% 5, 5a and 5b and 2% 3c. 2c is well banded (<1-3cm) chert-magnetite-grunerite - amphibole. Sections of the iron formation have broken bands of magnetite surrounded by grunerite. Quartz veins and calcite-quartz veins up to 8cm wide have ragged outlines and are oriented parallel to banding. Many have chlorite-grunerite envelopes. Pyrrhotite occurs as replacement of magnetite and as random to aligned blebs and masses associated with quartz veins and arsenopyrite. Arsenopyrite occurs as random to aligned, fine subhedral to euhedral, rhombs adjacent to quartz veins usually mixed with pyrrhotite. | | | | | | | | | | | |
| 90.20 | 90.83 | 3q | 95% 2c, 5% 5b. | 0 | 0 | 0 | trc | 2 | 2 | 3 | 7 | 2T024002 | 0.10 | |
| 90.20 | 90.20 | 4f | Contact at 75 degrees to core axis. | | | | | | | | | | | |
| 90.83 | 91.95 | 3q | 95% 2ca, 5% 5 and 5b. | 0 | 0 | 0.5 | 1.5 | 4 | 4 | 1 | 4 | 2T024003 | 2.84 | |

| 92T024 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 5 | | | | |
|--------|-------|---|--|--------|------|-----|------|------|--------|------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | ASSAYS | | | | | | | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 91.40 | 91.40 | 4f | Banding to core axis 70 degrees. | | | | | | | | | | |
| 91.95 | 93.05 | 3q | 90% 2ca, 10% 5 and 5a. | 2 | 0 | 0.5 | 2 | 5 | 8 | trc | 5 | 2T024004 | 2.45 |
| 92.51 | 92.54 | 4c | One occurrence of visible gold consisting of two groups of one speck and four specks respectively all situated in sulphide-chlorite adjacent to quartz and sulphides. | | | | | | | | | | |
| 92.58 | 92.58 | 4c | One occurrence of visible gold consisting of one speck situated in chlorite. | | | | | | | | | | |
| 93.05 | 94.20 | 3q | 90% 2ca, 10% 5 and 5a. | 0 | 0 | 1 | 2 | 8 | 12 | trc | 5 | 2T024005 | 3.08 |
| 94.20 | 95.20 | 3q | 80% 2ca, 10% 5 and 5a and 10% 3c. | 0 | 0 | 0.5 | 1.5 | 8 | 8 | trc | 3 | 2T024006 | 3.77 |
| 94.30 | 94.30 | 4f | Banding to core axis 70 degrees. | | | | | | | | | | |
| 95.20 | 95.80 | 2n | Intermediate dyke (unit 4b) | | | | | | | | | | |
| 95.20 | 95.80 | 2g | 100% 4b. 4b is light grey, moderately to strongly siliceous with 20% subhedral feldspars up to 8mm wide. | | | | | | | | | | |
| 95.20 | 95.80 | 2q | 4b. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2T024007 | <0.03 |
| 95.20 | 95.20 | 3f | Contact at 60 degrees to core axis. | | | | | | | | | | |
| 95.80 | 98.40 | 2n | Mudstone (unit 3c), oxide iron formation (unit 2c) | | | | | | | | | | |
| 95.80 | 98.40 | 2g | 67% 3c, 24% 2c, 6% 5ba, and 3% 5. 3c is black and massive with three bands of possible tuff unit. 2c is well banded (<1-2cm) chert-magnetite-amphibole - chlorite-grunerite. Two 5ba's 8cm and 5cm wide respectively cut the 2c unit. Both are irregular in outline and are oriented parallel to banding. Pyrrhotite occurs as replacement of magnetite and as random blebs and fracture fill associated with the 5ba's. Arsenopyrite occurs as random to aligned, fine subhedral to euhedral rhombs associated with the 5ba's. | | | | | | | | | | |
| 95.80 | 97.00 | 3q | 3c. | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 5 | 2T024008 | <0.03 |

VISUAL ESTIMATE REPORT

HOLE: 92T024

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|--------|--------|-------|-----------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T024001 | 89.12 | 90.20 | 1.08 | 3c. | 0 | 0 | 0 | trc | 3 | 1 | 0 | 6 | 0.58 |
| 2T024002 | 90.20 | 90.83 | 0.63 | 95% 2c, 5% 5b. | 0 | 0 | 0 | trc | 2 | 2 | 3 | 7 | 0.10 |
| 2T024003 | 90.83 | 91.95 | 1.12 | 95% 2ca, 5% 5 and 5b. | 0 | 0 | 0.5 | 1.5 | 4 | 4 | 1 | 4 | 2.84 |
| 2T024004 | 91.95 | 93.05 | 1.10 | 90% 2ca, 10% 5 and 5a. | 2 | 0 | 0.5 | 2 | 5 | 8 | trc | 5 | 2.45 |
| 2T024005 | 93.05 | 94.20 | 1.15 | 90% 2ca, 10% 5 and 5a. | 0 | 0 | 1 | 2 | 8 | 12 | trc | 5 | 3.08 |
| 2T024006 | 94.20 | 95.20 | 1.00 | 80% 2ca, 10% 5 and 5a and 10% 3c. | 0 | 0 | 0.5 | 1.5 | 8 | 8 | trc | 3 | 3.77 |
| 2T024007 | 95.20 | 95.80 | 0.60 | 4b. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <0.03 |
| 2T024008 | 95.80 | 97.00 | 1.20 | 3c. | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 5 | <0.03 |
| 2T024009 | 97.00 | 97.78 | 0.78 | 80% 2c, 20% 5ba. | 0 | 0 | 0.5 | 2 | 10 | 8 | 3 | 2 | 4.27 |
| 2T024010 | 97.78 | 98.40 | 0.62 | 85% 3c, 15% 5. | 0 | 0 | 0 | trc | 10 | 5 | trc | 2 | <0.03 |
| 2T024011 | 98.40 | 99.47 | 1.07 | 80% 2c, 20% 1a. | 0 | 0 | 0 | trc | 3 | 5 | 0 | 2 | 0.07 |
| 2T024012 | 105.06 | 106.13 | 1.07 | 45% 1a, 35% 3c, 20% 5 and 5b. | 0 | 0 | 0 | 0 | 19 | 1 | 1 | 15 | <0.03 |
| 2T024013 | 106.13 | 107.26 | 1.13 | 70% 2c, 25% 3c, 5% 5. | 0 | 0 | trc | 1 | 4 | 5 | 0.5 | 2 | 0.17 |
| 2T024014 | 107.26 | 108.28 | 1.02 | 90% 2ca, 10% 5 and 5a. | 0 | 0 | trc | 3 | 8 | 8 | trc | 2 | 2.02 |
| 2T024015 | 108.28 | 109.12 | 0.84 | 70% 2c, 20% 3c, 10% 5 and 5b. | 0 | 0 | 0 | 0.5 | 7 | 7 | 3 | 6 | <0.03 |
| 2T024016 | 109.12 | 110.30 | 1.18 | 50% 1a, 30% 2d, 20% 5 and 5b. | 0 | 0 | 0 | 0 | 15 | 10 | 2 | 5 | <0.03 |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|----------------|---------|--------|--|----------|--------------------|-------------------------------|--------------------------|
| Permit/Claim | BRAU 48 | | | To test for gold-bearing iron formation at an elevation of approximately 260m above sea level (40m below surface). | | | Date Started: July 16, 1992 | |
| Location: | Scorpion Lake | | | | | | Date Completed: July 17, 1992 | |
| Grid Northing: | 5150.00 metres | | | | | | Logged by: P. Pacor | |
| Grid Easting: | 5052.30 metres | | | | | | Core Size: BQ | |
| Ground Elevation: | 282.76 metres | | | | | | Contractor: J.T. Thomas | |
| Collar Height: | 0.20 metres | | | | | | Core Storage: Boot Lake | |
| Hole - Azimuth: | 057 degrees | | | | | | Boxes of Core: 22 | |
| - Inclination: | -45 degrees | | | Casing Length: 7.01m BW | | | | |
| - Length: | 78.64 metres | | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 28.96 | | -44.0 | 1 | GOCC | Gold Occurrence | 00826.4 | 009-011; 017 |
| Rotodip | 59.44 | | -45.0 | 2 | PYRT | Pyrite | 00827.4 | 001-008; 012-016 |
| | | | | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 6 | | | |
|---|--------|-------|---|------|------|-----|------|------|------|--------|-----|----------|-------|
| ASSAYS | | | | | | | | | | ASSAYS | | | |
| 92T025 | METRES | | DESCRIPTION | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | 9/t |
| FROM | 52.70 | 55.55 | quartz-carbonate (calcite) veins are predominantly less than 5cm wide are jagged and irregular in outline. They also contain or are enveloped by chlorite. Most are oriented parallel to banding/bedding. | 1 | 0 | 1 | 3 | 40 | 10 | 5 | 10 | 2T025013 | 6.93 |
| TO | 52.70 | 53.45 | Pyrrhotite occurs as primarily aligned masses up to 0.5cm wide within or adjacent to 5b's. | 1 | 0 | 1 | 3 | 40 | 10 | 5 | 10 | 2T025013 | 6.93 |
| | 52.70 | 53.01 | Arsenopyrite occurs as random to aligned subhedral to euhedral rhombs 2-5mm wide, within or adjacent to 5b's. | 1 | 0 | 1 | 3 | 40 | 10 | 5 | 10 | 2T025013 | 6.93 |
| | 52.70 | 53.45 | Pyrrhotite occurs as primarily aligned masses up to 0.5cm wide within or adjacent to 5b's. | 1 | 0 | 1 | 3 | 40 | 10 | 5 | 10 | 2T025013 | 6.93 |
| | 52.70 | 52.70 | 55% 5ba, 35% 3c, 10% 2da. | 1 | 0 | 1 | 3 | 40 | 10 | 5 | 10 | 2T025013 | 6.93 |
| | 52.70 | 52.70 | Biotope (stilpnomelane) is present in the 3c adjacent to some veins. | 1 | 0 | 1 | 3 | 40 | 10 | 5 | 10 | 2T025013 | 6.93 |
| | 52.70 | 52.70 | Contact at 55 degrees to core axis. | 1 | 0 | 1 | 3 | 40 | 10 | 5 | 10 | 2T025013 | 6.93 |
| | 53.01 | 53.01 | One occurrence of visible gold consisting of one speck situated within 5ba, in chlorite adjacent to pyrrhotite and arsenopyrite. | 0 | 0 | 1 | 1 | 60 | 10 | 3 | 6 | 2T025014 | 2.86 |
| | 54.20 | 54.20 | 70% 5ba and 5b, 30% 3c. | 0 | 0 | 1 | 1 | 60 | 10 | 3 | 6 | 2T025014 | 2.86 |
| | 54.75 | 54.75 | 90% 5b, 10% 3c. | 0 | 0 | 0 | 0 | 90 | 3 | trc | 1 | 2T025015 | <0.03 |
| | 54.75 | 55.55 | 70% 3c, 20% 2da, 10% 5b. | 0 | 0 | 0 | 0.5 | 10 | 4 | 2 | 10 | 2T025016 | 0.07 |
| | 55.55 | 78.64 | Greywacke (unit 1a) | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025016 | 0.07 |
| | 55.55 | 78.64 | 85% 1a and 1b, and 15% 3c. | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025016 | 0.07 |
| | 55.55 | 78.64 | Massive to weakly foliated 1a and 1b with interbedded 3c. | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025016 | 0.07 |
| | 55.55 | 78.64 | Less than 2% quartz vein oriented parallel to bedding. | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025016 | 0.07 |
| | 55.55 | 78.64 | Locally trace to 1% pyrrhotite adjacent to veins. | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025016 | 0.07 |
| | 55.55 | 56.50 | 90% 1a, 10% 5. | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025017 | <0.03 |
| | 55.55 | 55.55 | Contact at 65 degrees to core axis. | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025017 | <0.03 |
| | 59.60 | 59.60 | Bedding to core axis 75 degrees. | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025017 | <0.03 |
| | 64.10 | 64.10 | Bedding to core axis 65 degrees. | 0 | 0 | 0 | 0 | 10 | 4 | 2 | 10 | 2T025017 | <0.03 |

VISUAL ESTIMATE REPORT

HOLE: 92T025

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|--------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T025001 | 43.22 | 44.22 | 1.00 | 50% 1a, 40% 3c, 10% 5. | 0 | 0 | 0 | 0 | 10 | 3 | trc | 20 | <0.03 |
| 2T025002 | 44.22 | 45.11 | 0.89 | 55% 2ca, 25% 5a and 5, 20% 1a. | 0 | 0 | 0.5 | 3 | 18 | 15 | 0.5 | 5 | 2.57 |
| 2T025003 | 45.11 | 45.85 | 0.74 | 65% 2ca, 35% 5a and 5b. | 1 | 0 | trc | 3 | 30 | 10 | 1 | 6 | 2.72 |
| 2T025004 | 45.85 | 46.62 | 0.77 | 75% 2ca, 25% 5a and 5b. | 0 | 0 | 2 | 0 | 20 | 10 | 1 | 5 | 1.94 |
| 2T025005 | 46.62 | 47.06 | 0.44 | 4b. | 0 | 0 | 0 | trc | 0 | 0 | 0 | 0 | <0.03 |
| 2T025006 | 47.06 | 47.75 | 0.69 | 65% 2ca, 35% 5 and 5b. | 0 | 0 | 0.5 | 2 | 30 | 8 | 1 | 5 | 0.92 |
| 2T025007 | 47.75 | 48.45 | 0.70 | 95% 2c, 5% 5. | 1 | 0 | trc | 1 | 2 | 3 | trc | 3 | 0.27 |
| 2T025008 | 48.45 | 49.06 | 0.61 | 2c. | 0 | 0 | 0 | trc | 2 | 2 | trc | 2 | 0.10 |
| 2T025009 | 49.06 | 50.16 | 1.10 | 95% 2c, 5% 5. | 0 | 0 | trc | 0.5 | 5 | 3 | trc | 1 | 0.34 |
| 2T025010 | 50.16 | 51.11 | 0.95 | 90% 2c, 10% 1a. | 0 | 0 | trc | 1 | 2 | 2 | trc | 3 | 0.15 |
| 2T025011 | 51.11 | 52.06 | 0.95 | 95% 2c, 5% 5. | 0 | 0 | trc | 0.5 | 5 | 3 | 0 | 1 | 0.79 |
| 2T025012 | 52.06 | 52.70 | 0.64 | 3c. | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 5 | 0.10 |
| 2T025013 | 52.70 | 53.45 | 0.75 | 55% 5ba, 35% 3c, 10% 2da. | 1 | 0 | 1 | 3 | 40 | 10 | 5 | 10 | 6.93 |
| 2T025014 | 53.45 | 54.20 | 0.75 | 70% 5ba and 5b, 30% 3c. | 0 | 0 | 1 | 1 | 60 | 10 | 3 | 6 | 2.86 |
| 2T025015 | 54.20 | 54.75 | 0.55 | 90% 5b, 10% 3c. | 0 | 0 | 0 | 0 | 90 | 3 | trc | 1 | <0.03 |
| 2T025016 | 54.75 | 55.55 | 0.80 | 70% 3c, 20% 2da, 10% 5b. | 0 | 0 | 0 | 0.5 | 10 | 4 | 2 | 10 | 0.07 |
| 2T025017 | 55.55 | 56.50 | 0.95 | 90% 1a, 10% 5. | 0 | 0 | 0 | 0 | 10 | 2 | trc | 10 | <0.03 |

| LOCATION INFORMATION | | | | PURPOSE | | | | GENERAL INFORMATION | | | |
|--|-------|---------|--------|--|----------|--------------------|--------------|--|--|--|--|
| Permit/Claim BRAU 30 Location: Chick Pond Grid Northing: 4240.20 metres Grid Easting: 4919.60 metres Ground Elevation: 289.72 metres Collar Height: 0.10 metres Hole - Azimuth: 237 degrees - Inclination: -45 degrees - Length: 103.02 metres | | | | To test for gold-bearing iron formation at an elevation of approximately 260m above sea level (48m below surface). | | | | Date Started: July 16, 1992 Date Completed: July 17, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 19 Casing Length: 0.61m BW | | | |
| ORIENTATION TEST | | | | COLUMNS | | | | SAMPLE INFORMATION | | | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED | | | |
| Rotodip | 59.43 | | -44.0 | 1 | GOCC | Gold Occurrence | 00827.4 | 013-020 | | | |
| Rotodip | 89.92 | | -44.0 | 2 | PYRT | Pyrite | 00826.4 | 001-012 | | | |
| | | | | 3 | ASP | Arsenopyrite | | | | | |
| | | | | 4 | PYRH | Pyrrhotite | | | | | |
| | | | | 5 | VQTZ | Vein Quartz | | | | | |
| | | | | 6 | CLRT | Chlorite | | | | | |
| | | | | 7 | CBNT | Carbonate | | | | | |
| | | | | 8 | VIN | Vein Intensity | | | | | |
| | | | | 9 | SAMPLE # | | | | | | |
| | | | | 10 | g/t | gold content by FA | | | | | |
| REMARKS | | | | | | | | | | | |
| | | | | | | | | | | | |

| 92T026 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 11 | | | |
|--------|--------|---|------|------|-----|------|------|--------|---------|-----|----------|-----|
| METRES | | DESCRIPTION | | | | | | ASSAYS | | | | |
| FROM | TO | CODE | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 97.70 | 103.02 | 2g | | | | | | | | | | |
| 97.70 | 97.70 | 3f | | | | | | | | | | |
| 101.15 | 101.15 | 3f | | | | | | | | | | |
| 103.02 | 103.02 | 1c | | | | | | | | | | |

Massive 1a with interbeds of 3c. Bedding contacts range from sharp to contorted and broken.

Contact at 15 degrees to core axis.

Bedding to core axis 20 degrees.

End of Hole.

VISUAL ESTIMATE REPORT

HOLE: 92T026

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| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|--|------|------|-----|------|------|------|------|-----|--------|
| 2T026001 | 43.00 | 44.00 | 1.00 | 80% 1a, 15% 3a, 5% 5. | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 3 | <0.03 |
| 2T026002 | 44.00 | 45.00 | 1.00 | 50% 2ca, 40% 1a, 10% 3a. | 0 | 0.5 | 0 | 1 | 1 | 5 | 0 | 2 | 0.14 |
| 2T026003 | 45.00 | 46.00 | 1.00 | 70% 1a, 15% 5 and 5b, 10% 3c, 5% 8. | 0 | 0 | 0 | 0 | 14 | 2 | 1 | 3 | <0.03 |
| 2T026004 | 46.00 | 47.00 | 1.00 | 75% 2c, 20% 1a, 5% 8. | 0 | 0 | 0 | 0.5 | 1 | 3 | 1 | 2 | <0.03 |
| 2T026005 | 47.00 | 48.00 | 1.00 | 95% 2c, 5% 5. | 0 | 0 | trc | trc | 5 | 8 | 0 | 1 | <0.03 |
| 2T026006 | 48.00 | 49.03 | 1.03 | 95% 2c, 5% 5. | 0 | 0 | 0 | 0.5 | 5 | 8 | 0 | 2 | <0.03 |
| 2T026007 | 53.55 | 54.25 | 0.70 | 2c. | 0 | 0 | 0 | 1 | 1 | 5 | trc | 1 | <0.03 |
| 2T026008 | 58.00 | 59.00 | 1.00 | 2c. | 0 | 0 | 0 | 0.5 | 1 | 4 | 0.5 | 2 | <0.03 |
| 2T026009 | 59.00 | 60.00 | 1.00 | 95% 2c, 5% 5. | 0 | 0 | 0 | trc | 5 | 3 | 0 | 5 | <0.03 |
| 2T026010 | 60.00 | 61.00 | 1.00 | 95% 2c, 5% 5. | 0 | 0 | 0 | trc | 5 | 3 | 0 | 3 | <0.03 |
| 2T026011 | 61.00 | 62.17 | 1.17 | 95% 2c, 5% 5. | 0 | 0 | trc | 0.5 | 5 | 2 | 0 | 4 | <0.03 |
| 2T026012 | 62.17 | 63.30 | 1.13 | 95% 2c, 5% 5. | 0 | 0 | trc | 1 | 5 | 4 | 0 | 5 | <0.03 |
| 2T026013 | 72.54 | 73.45 | 0.91 | 3a. | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | <0.03 |
| 2T026014 | 73.45 | 74.07 | 0.62 | 2ca. | 0 | 0 | 0 | 0.5 | 1.5 | 1 | 6 | 1 | <0.03 |
| 2T026015 | 74.07 | 75.00 | 0.93 | 95% 2ca, 5% 5. | 2 | 0 | 0.5 | 3 | 5 | 6 | trc | 6 | 0.79 |
| 2T026016 | 75.00 | 76.00 | 1.00 | 65% 2ca, 25% 8, 10% 5. | 0 | 0 | trc | 2 | 10 | 5 | trc | 2 | 0.20 |
| 2T026017 | 76.00 | 77.00 | 1.00 | 95% 2ca, 5% 5 and 5a. | 0 | 0 | trc | 2 | 5 | 10 | trc | 4 | 0.75 |
| 2T026018 | 77.00 | 78.00 | 1.00 | 80% 2ca, 10% 5, 10% 3c. | 0 | 0 | trc | 1.5 | 8 | 10 | trc | 4 | 0.20 |
| 2T026019 | 78.00 | 78.85 | 0.85 | 60% 2ca, 30% 5, 10% 3c. | 0 | 0 | 0 | 1 | 25 | 10 | trc | 1 | 0.07 |
| 2T026020 | 78.85 | 79.85 | 1.00 | 3a. | 0 | 0 | 0 | 0 | 4 | 10 | 0.5 | 5 | <0.03 |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|---|--------|---------|--------|--|----------|--------------------|---|--------------------------|
| Permit/Claim: BRAU 30 Location: AYERS Grid Northing: A359.90NW metres Grid Westing: 078.00SW metres Ground Elevation: 298.79 metres Collar Height: 0.10 metres Hole - Azimuth: 037 degrees - Inclination: -55 degrees - Length: 121.31 metres | | | | To test for gold-bearing iron formation at an elevation of approximately 215m above sea level (70m below surface). | | | Date Started: July 17, 1992 Date Completed: July 18, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 22 Casing Length: 0.61 BW | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 32.00 | | -53.0 | 1 | GOCC | Gold Occurrence | 00826.4 | 001-005, 021 |
| Rotodip | 59.44 | | -51.0 | 2 | PYRT | Pyrite | 00827.4 | 006-020 |
| Rotodip | 86.87 | | -50.0 | 3 | ASP | Arsenopyrite | | |
| Rotodip | 117.35 | | -51.0 | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| 92T027 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 3 | | | | |
|--------|-------|---|--|------|------|-----|------|------|--------|------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | ASSAYS | |
| FROM | TO | | | | | | | | | | | SAMPLE # | g/t |
| 31.00 | 31.00 | 3f | Bedding to core axis 50 degrees. | | | | | | | | | | |
| 36.80 | 36.80 | 3f | Graded bedding fines downhole, bedding to core axis 50 degrees. | | | | | | | | | | |
| 44.70 | 44.70 | 3f | Bedding to core axis 50 degrees. | | | | | | | | | | |
| 49.30 | 49.30 | 3f | Bedding to core axis 40 degrees. | | | | | | | | | | |
| 56.80 | 56.80 | 3f | Bedding to core axis 45 degrees. | | | | | | | | | | |
| 58.50 | 58.90 | 3c | 1a with 30% 5 and 1% pyrrhotite. | | | | | | | | | | |
| 61.65 | 61.65 | 3f | Graded bedding fines downhole, bedding to core axis 45 degrees. | | | | | | | | | | |
| 62.50 | 81.80 | 2n | Siliceous greywacke (unit 1b) | | | | | | | | | | |
| 62.50 | 81.80 | 2g | 90% 1b and 1a, 5% 3c and 5% 5 and 5b. Primarily massive greywacke with interbeds of 3c. Greywackes range from weakly siliceous 1a to strongly silicified 1b. 1b's are cut by randomly oriented <1-3cm wide quartz and quartz-carbonate veins. Sericite is abundant in 1b's adjacent to veins. | | | | | | | | | | |
| 62.50 | 62.50 | 3f | Contact at 45 degrees to core axis. | | | | | | | | | | |
| 67.35 | 67.35 | 3f | Bedding to core axis 45 degrees. | | | | | | | | | | |
| 70.40 | 70.40 | 3f | Bedding to core axis 60 degrees. | | | | | | | | | | |
| 81.68 | 81.68 | 3f | Bedding to core axis 60 degrees. | | | | | | | | | | |
| 81.80 | 84.50 | 2n | Felsic dyke (unit 4a) | | | | | | | | | | |
| 81.80 | 84.50 | 2g | 90% 4a and 10% 5 and 5a. 4a is medium grained, strongly siliceous and moderately foliated. It contains 1% finely disseminated euhedral arsenopyrite rhombs and needles and trace disseminated fine grained pyrrhotite. Quartz veins up to 5cm wide range from sharp to ragged in outline. Some contain up to 5%, 1-6mm wide arsenopyrite rhombs. Minor sericite-chlorite present. | | | | | | | | | | |
| 81.80 | 83.15 | 3q | 90% 4a, 10% 5 and 5a. | 0 | 0 | 1 | trc | 10 | 1 | trc | 4 | 2T027001 | <0.03 |

VISUAL ESTIMATE REPORT

HOLE: 92T027

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| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|--------|--------|-------|--------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T027001 | 81.80 | 83.15 | 1.35 | 90% 4a, 10% 5 and 5a. | 0 | 0 | 1 | trc | 10 | 1 | trc | 4 | <0.03 |
| 2T027002 | 83.15 | 84.50 | 1.35 | 90% 4a, 10% 5 and 5a. | 0 | 0 | 1 | trc | 10 | 1 | trc | 5 | <0.03 |
| 2T027003 | 97.00 | 98.02 | 1.02 | 45% 4b, 35% 1a, 20% 5. | 0 | 0 | 0 | trc | 20 | 15 | trc | 8 | <0.03 |
| 2T027004 | 98.02 | 99.00 | 0.98 | 90% 2c, 10% 5 and 5b. | 0 | trc | trc | 0.5 | 8 | 3 | 2 | 6 | <0.03 |
| 2T027005 | 99.00 | 100.00 | 1.00 | 90% 2c, 10% 5. | 0 | trc | trc | 0.5 | 10 | 3 | trc | 5 | 0.38 |
| 2T027006 | 100.00 | 100.72 | 0.72 | 95% 2c, 5% 5 and 5b. | 0 | 0 | 0 | trc | 4 | 2 | 1 | 8 | 0.20 |
| 2T027007 | 100.72 | 102.00 | 1.28 | 50% 2ca, 50% 5ba. | 0 | 4 | trc | trc | 40 | 6 | 2 | 2 | 6.10 |
| 2T027008 | 102.00 | 102.70 | 0.70 | 2c. | 0 | 0.5 | 0 | 0.5 | 1 | 1 | 1 | 2 | 0.93 |
| 2T027009 | 102.70 | 104.00 | 1.30 | 50% 2ca, 50% 5ba. | 0 | 5 | 4 | trc | 35 | 6 | 3 | 12 | 6.58 |
| 2T027010 | 104.00 | 104.65 | 0.65 | 2c. | 0 | 0 | 0 | trc | 1 | 2 | trc | 2 | 0.96 |
| 2T027011 | 104.65 | 105.67 | 1.02 | 85% 2ca, 15% 5ba. | 0 | 1 | 1 | 0.5 | 3 | 10 | 3 | 3 | 0.72 |
| 2T027012 | 105.67 | 106.30 | 0.63 | 95% 2c, 5% 5b. | 0 | 0 | trc | 0.5 | 4 | 2 | 0.5 | 5 | 0.14 |
| 2T027013 | 106.30 | 107.00 | 0.70 | 80% 2ca, 20% 5ba and 5b. | 0 | 0 | 1 | 2 | 18 | 3 | 1 | 4 | 2.09 |
| 2T027014 | 107.00 | 108.00 | 1.00 | 50% 2ca, 50% 5ba | 0 | 0.5 | 2 | 3 | 40 | 4 | 4 | 4 | 1.50 |
| 2T027015 | 108.00 | 108.73 | 0.73 | 90% 2ca, 10% 5b and 5ba. | 0 | 0 | trc | 2 | 8 | 2 | 1 | 4 | 0.34 |
| 2T027016 | 108.73 | 109.45 | 0.72 | 70% 2c, 30% 5b. | 0 | 0 | 0 | 1 | 25 | 4 | 1 | 4 | 0.44 |
| 2T027017 | 109.45 | 110.22 | 0.77 | 80% 2d, 20% 5. | 0 | 0 | 1 | trc | 20 | 3 | trc | >20 | 0.10 |
| 2T027018 | 110.22 | 111.00 | 0.78 | 75% 2c, 25% 5 and 5b. | 0 | 0 | trc | 1 | 22 | 5 | 0.5 | 3 | 0.07 |
| 2T027019 | 111.00 | 112.00 | 1.00 | 95% 2c, 5% 5b and 5. | 0 | 0 | 0 | 0.5 | 2 | 3 | 3 | >20 | <0.03 |
| 2T027020 | 112.00 | 112.60 | 0.60 | 90% 2ca, 10% 5b and 5. | 0 | 0 | 0 | 2 | 4 | 20 | 3 | 15 | 0.07 |
| 2T027021 | 112.60 | 113.60 | 1.00 | 1a. | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | <0.03 |

BACK RIVER JOINT VENTURE

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: AYERS

DDH NO: 92T027

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|----------------------|--------|
| 0.61 | 3.35 | 107 | 44 | Fe stain | |
| 3.35 | 5.49 | 82 | 61 | " | |
| 5.49 | 8.53 | 95 | 32 | " | |
| 8.53 | 11.58 | 97 | 75 | | |
| 11.58 | 14.63 | 100 | 72 | | |
| 14.63 | 17.68 | 98 | 69 | | |
| 17.68 | 20.73 | 102 | 82 | | |
| 20.73 | 23.47 | 93 | 55 | | |
| 23.47 | 26.82 | 73 | 73 | Abundant ground core | |
| 26.82 | 29.26 | 94 | 53 | | |
| 29.26 | 32.61 | 99 | 66 | Fe stain | |
| 32.61 | 35.05 | 88 | 54 | | |
| 35.05 | 38.10 | 102 | 85 | | |
| 38.10 | 39.01 | 100 | 99 | | |
| 39.01 | 42.06 | 98 | 79 | | |
| 42.06 | 45.11 | 90 | 72 | | |
| 45.11 | 47.85 | 98 | 75 | | |
| 47.85 | 48.77 | 76 | 0 | | |
| 48.77 | 54.25 | 98 | 90 | | |
| 54.25 | 57.30 | 100 | 84 | | |
| 57.30 | 60.35 | 98 | 89 | | |
| 60.35 | 63.40 | 102 | 89 | | |
| 63.40 | 66.45 | 98 | 85 | | |
| 66.45 | 69.49 | 97 | 85 | | |
| 69.49 | 72.54 | 98 | 66 | | |
| 72.54 | 75.59 | 100 | 95 | | |
| 75.59 | 78.64 | 100 | 98 | | |
| 78.64 | 81.69 | 100 | 85 | | |
| 81.69 | 84.73 | 100 | 93 | | |
| 84.73 | 87.78 | 98 | 98 | | |
| 87.78 | 90.83 | 100 | 74 | | |
| 90.83 | 93.88 | 100 | 79 | | |
| 93.88 | 96.93 | 100 | 69 | | |
| 96.93 | 99.97 | 100 | 79 | | |
| 99.97 | 103.02 | 98 | 89 | 90.80-101.82 | R2-P4 |
| 100.02 | 106.07 | 97 | 79 | 101.82-113.06 | R2-P3 |
| 106.07 | 109.12 | 98 | 92 | 113.06-121.31 | R2-P5 |
| 109.12 | 112.17 | 102 | 98 | | |
| 112.17 | 115.21 | 100 | 75 | | |
| 115.21 | 118.26 | 98 | 82 | | |
| 118.26 | 121.31 | 98 | 79 | | |
| 121.31 | | | | EM | |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|--|--------|---------|--------|---|----------|--------------------|--|---|
| Permit/Claim BRAU 30 Location: AYERS Grid Northing: A330.00NW metres Grid Westing: 134.10SW metres Ground Elevation: 299.26 metres Collar Height: 0.15 metres Hole - Azimuth: 037 degrees - Inclination: -60 degrees - Length: 259.08 metres | | | | To test for gold-bearing iron formation at an elevation of approximately 115m above sea level (182m below surface). | | | Date Started: July 18, 1992 Date Completed: July 21, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 48 Casing Length: 3.05m BW | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 25.91 | | -59.0 | 1 | GOCC | Gold Occurrence | 00826.4 | 001-010; 018-022; 026-039; 051-075 011-017; 023-025; 040-050 |
| Rotodip | 56.39 | | -59.0 | 2 | PYRT | Pyrite | 00827.4 | |
| Rotodip | 86.87 | | -58.0 | 3 | ASP | Arsenopyrite | | |
| Rotodip | 147.83 | | -57.0 | 4 | PYRH | Pyrrhotite | | |
| Rotodip | 178.31 | | -57.0 | 5 | VQTZ | Vein Quartz | | |
| Rotodip | 208.79 | | -56.0 | 6 | CLRT | Chlorite | | |
| Rotodip | 239.27 | | -54.0 | 7 | CBNT | Carbonate | | |
| Rotodip | 255.12 | | -55.0 | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |

| 92T028 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 3 | | | | |
|--------|-------|---|---|------|------|-----|------|------|--------|------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | ASSAYS | | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 37.15 | 37.15 | 3f | Graded bedding fines downhole, bedding to core axis 45 degrees. | | | | | | | | | | |
| 45.90 | 45.90 | 3f | Graded bedding fines uphole, bedding to core axis 55 degrees. | | | | | | | | | | |
| 46.75 | 47.00 | 3f | Graded bedding fines uphole, bedding to core axis 55 degrees. | | | | | | | | | | |
| 55.00 | 56.00 | 3q | 60% 3c, 35% 1a, 5% 5. | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 2T028001 | 0.07 |
| 55.20 | 55.20 | 4f | Bedding to core axis 45 degrees. | | | | | | | | | | |
| 56.00 | 60.15 | 2n | Sulphide-bearing silicate iron formation (unit 2da), greywacke (unit 1a), sulphide-bearing oxide iron formation (unit 2ca), carbonate and sulphide-bearing quartz vein (5ba). | | | | | | | | | | |
| 56.00 | 60.15 | 2g | 36% 2da, 28% 1a, 13% 2ca, 13% 5ba and 5b, and 10% 3c. 2d ranges from massive fine to medium grained amphibole and chlorite to well banded chert-amphibole-3c? 2c is well banded (<1-2cm) chert-amphibole-magnetite. Magnetite has almost completely been replaced by hematite. Quartz-carbonate (calcite) veins up to 10cm wide are sharp in outline and are oriented parallel to banding. Iron carbonate veins are 1-2mm wide, continuous to discontinuous, random, fracture fill. Pyrrhotite is present as random blebs, as replacements of magnetite and in bands. Arsenopyrite occurs as random to aligned very fine subhedral needles and rhombs and as random 1-3mm wide subhedral to euhedral rhombs. Arsenopyrite is primarily present adjacent to 5b's. Pyrite is present as random blebs and fracture fill. Graphite and slickensides are present on most broken surfaces. | | | | | | | | | | |
| 56.00 | 56.91 | 3q | 45% 3c, 35% 5ba, 20% 2da. | 0 | trc | 0.5 | 0.5 | 25 | 10 | 1 | 1 | 2T028002 | 0.96 |
| 56.00 | 56.00 | 4f | Contact lost in broken core. | | | | | | | | | | |
| 56.50 | 56.50 | 4f | Banding to core axis 50 degrees. | | | | | | | | | | |
| 56.91 | 58.38 | 3q | 90% 2da, 5% 1a, 5% 5b and 5ba. | 0 | trc | trc | 2 | 3 | 2 | 2 | 8 | 2T028003 | 2.61 |
| 58.38 | 58.98 | 3q | 1a. | 0 | 0 | 0 | 0 | 0.5 | trc | 0.5 | 2 | 2T028004 | <0.03 |
| 58.98 | 60.15 | 3q | 45% 1a, 45% 2ca, 10% 5b and 5ba. | 0 | trc | trc | 1 | 9 | 8 | 1 | 5 | 2T028005 | 0.79 |

| 92T028 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | Page 7 | | | |
|--------|--------|---|--|------|------|-----|------|------|------|--------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | ASSAYS | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 159.65 | 165.47 | 2g | Pyrrhotite occurs as replacement of magnetite and as random blebs and masses associated with quartz-carbonate veins. | | | | | | | | | | |
| 159.65 | 160.83 | 3q | 95% 2c, 5% 5ba and 5b. | 0 | 0 | 0 | 0.5 | 2 | 1 | 3 | 15 | 2T028007 | 0.07 |
| 159.65 | 159.65 | 4f | Contact at 45 degrees to core axis. | | | | | | | | | | |
| 160.20 | 160.20 | 4f | Banding to core axis 35 degrees. | | | | | | | | | | |
| 160.83 | 161.90 | 3q | 95% 2c, 5% 5ba and 5b. | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 10 | 2T028008 | 0.21 |
| 161.90 | 163.00 | 3q | 95% 2c, 5% 5b. | 0 | 0 | 0 | trc | 2 | 2 | 3 | 5 | 2T028009 | 0.10 |
| 163.00 | 164.50 | 3q | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0 | trc | 2 | 2 | 3 | 11 | 2T028010 | 0.45 |
| 164.20 | 164.20 | 4f | Banding to core axis 40 degrees. | | | | | | | | | | |
| 164.50 | 165.47 | 3q | 90% 2c, 10% 5b and 5ba. | 0 | 0 | 0 | 0.5 | 5 | 4 | 5 | 15 | 2T028011 | <0.03 |
| 165.47 | 167.00 | 2n | Sulphide-bearing oxide iron formation (unit 2ca), carbonate and sulphide-bearing quartz vein (5ba). | | | | | | | | | | |
| 165.47 | 167.00 | 2g | 85% 2ca, and 15% 5ba and 5b. 2c is well banded (<1-3cm) chert-magnetite-grunerite-amphibole. Magnetite bands are broken and surrounded by grunerite. Veins and pyrrhotite description is the same as for the previous interval. Arsenopyrite occurs as random, very fine euhedral needles and rhombs. | | | | | | | | | | |
| 165.47 | 166.24 | 3q | 80% 2ca, 20% 5ba. | 0 | 0 | trc | 2 | 15 | 4 | 5 | 15 | 2T028012 | 0.20 |
| 165.47 | 165.47 | 4f | Contact at 35 degrees to core axis. | | | | | | | | | | |
| 166.24 | 167.00 | 3q | 90% 2ca, 10% 5ba and 5b. | 0 | 0 | trc | 2 | 5 | 3 | 5 | 10 | 2T028013 | <0.03 |
| 166.80 | 166.80 | 4f | Banding to core axis 35 degrees. | | | | | | | | | | |
| 167.00 | 168.69 | 2n | Greywacke (unit 1a), quartz vein (unit 5). | | | | | | | | | | |
| 167.00 | 168.69 | 2g | 70% 1a and 30% 5. | | | | | | | | | | |
| 167.00 | 167.74 | 3q | 1a is massive to poorly bedded with quartz veins <1-5cm wide oriented parallel to bedding. 70% 1a, 30% 5. | 0 | 0 | 0 | 0 | 30 | 8 | 0 | >20 | 2T028014 | 0.07 |

| 92T028 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | Page 9 | | | |
|--------|--------|---|---|------|------|-----|------|------|------|--------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | ASSAYS | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 172.62 | 172.65 | 5c | 5cm wide possible tuff unit at 35 degrees to core axis. | | | | | | | | | | |
| 172.82 | 173.50 | 3q | 90% 2c, 10% 2da. | 0 | 0 | trc | trc | 1 | trc | 0 | 1 | 2T028021 | <0.03 |
| 173.50 | 178.00 | 2n | Oxide iron formation (unit 2c) | | | | | | | | | | |
| 173.50 | 178.00 | 2g | 100% 2c. 2c is well banded (<1-5cm) chert-magnetite-grunerite and minor amphibole and chlorite. Unit is locally folded with bands contorted and broken. Grunerite surrounds many of the broken chert, and magnetite bands. 2% calcite filled fractures. | | | | | | | | | | |
| 173.50 | 173.50 | 3f | Contact at 50 degrees to core axis. | | | | | | | | | | |
| 175.80 | 175.80 | 3f | Banding to core axis 50 degrees. | | | | | | | | | | |
| 176.00 | 176.00 | 3f | Fold nose. | | | | | | | | | | |
| 178.00 | 180.37 | 2n | Oxide iron formation (unit 2c), sulphide-bearing oxide iron formation (unit 2ca), carbonate and sulphide-bearing quartz vein (5ba). | | | | | | | | | | |
| 178.00 | 180.37 | 2g | 52% 2c, 24% 2ca and 24% 5ba. 2c is as described in the previous interval. Sulphides are associated with three carbonate (calcite) - quartz veins. One at 178.47m is composed of two 5ba's oriented at 25 degrees and 75 degrees to core axis, crosscutting banding. They consist of laminated pyrrhotite, calcite and chlorite. The third vein from 179.42 to 179.95m oriented parallel to banding, consists of roughly laminated calcite and chlorite (dark green and apple green) with laminated to massive pyrrhotite and pyrite. Arsenopyrite occurs as discontinuous layers of 1-2mm wide subhedral to euhedral rhombs and as layered to random masses of subhedral to euhedral rhombs up to 1cm wide. | | | | | | | | | | |
| 178.00 | 178.64 | 3q | 95% 2c, 5% 5ba. | 0 | 0 | 0 | 0.5 | 2 | 3 | 3 | 2 | 2T028022 | <0.03 |
| 178.00 | 178.00 | 4f | Contact at 45 degrees to core axis. | | | | | | | | | | |
| 178.64 | 179.26 | 3q | 2c. | 0 | 0 | 0 | trc | trc | 1 | trc | 1 | 2T028023 | 0.17 |

| 92T028 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 10 | | |
|--------|--------|---|---|------|------|-----|------|------|------|------|-----|----------|-------|--|
| METRES | | CODE | DESCRIPTION | | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 179.20 | 179.20 | 4f | Banding to core axis 50 degrees. | | | | | | | | | | | |
| 179.26 | 180.37 | 3q | 50% 2ca, 50% 5ba. | 0 | 7 | 4 | 5 | 8 | 20 | 10 | 1 | 2T028024 | 7.68 | |
| 180.37 | 184.00 | 2n | Oxide iron formation (unit 2c) | | | | | | | | | | | |
| 180.37 | 184.00 | 2g | 98% 2c and 2% 5b. 2c is well banded (<1-3cm) magnetite-amphibole-grunerite-chert-chlorite . Locally bands are contorted and broken. Quartz-carbonate (calcite) veins up to 2cm wide are sharp in outline and are oriented parallel to and perpendicular to banding. | | | | | | | | | | | |
| 180.37 | 181.00 | 3q | 2c. | 0 | 0 | 0 | 0 | 0.5 | 5 | trc | 1 | 2T028025 | 0.17 | |
| 180.37 | 180.37 | 4f | Contact 55 degrees to core axis. | | | | | | | | | | | |
| 181.00 | 182.00 | 3q | 2c. | 0 | 0 | 0 | 0 | 0.5 | 3 | 0.5 | 5 | 2T028026 | <0.03 | |
| 182.00 | 183.00 | 3q | 95% 2c, 5% 5b. | 0 | 0 | 0 | 0 | 2 | 5 | 3 | 10 | 2T028027 | <0.03 | |
| 182.90 | 182.90 | 4f | Banding to core axis 35 degrees. | | | | | | | | | | | |
| 183.00 | 184.00 | 3q | 2c. | 0 | 0 | 0 | trc | 1 | 3 | 2 | 2 | 2T028028 | <0.03 | |
| 184.00 | 187.13 | 2n | Oxide iron formation (unit 2c), sulphide-bearing oxide iron formation (unit 2ca), greywacke (unit 1a) | | | | | | | | | | | |
| 184.00 | 187.13 | 2g | 55% 2c, 28% 2ca, 10% 1a and 7% 5ba and 5b. 2c is weakly to well banded (<1-4cm) amphibole-magnetite-chert-grunerite-chlorite . Locally folded bands are broken and cut by grunerite veins 1-2mm wide. Quartz-carbonate (calcite) and calcite veins <1-3cm wide are ragged and discontinuous. Pyrrhotite occurs as replacement of magnetite and as random blebs and masses associated with the veins. Arsenopyrite occurs as random, fine grained, subhedral rhombs and as trainy, discontinuous laminae of fine grained, subhedral to euhedral rhombs. | | | | | | | | | | | |
| 184.00 | 185.00 | 3q | 95% 2c, 5% 5b and 5ba. | 0 | 0 | trc | 0.5 | 3 | 3 | 2 | 5 | 2T028029 | 0.07 | |
| 184.00 | 184.00 | 4f | Contact at 30 degrees to core axis. | | | | | | | | | | | |
| 185.00 | 185.87 | 3q | 90% 2c, 10% 5b and 5ba. | 0 | 0 | 0.5 | 0.5 | 5 | 6 | 5 | 10 | 2T028030 | 0.17 | |
| 185.87 | 187.13 | 3q | 70% 2ca, 25% 1a, 5% 5b and 5ba. | 0 | 0 | 0.5 | 2 | 3 | 7 | 2 | 8 | 2T028031 | 0.14 | |

| 92T028 | | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 12 | | |
|--------|--------|------|--|------|------|-----|------|------|------|---------|------------|----------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # |
| 202.00 | 208.72 | 2g | chert bands, up to 3cm wide, and grunerite. Unit is primarily black in colour. 2c is cut by a network of grunerite veins 1-3mm wide and by 5b's (calcite) <1-3cm wide. Trace pyrrhotite and arsenopyrite associated with the 5b's. | | | | | | | | | |
| 202.00 | 202.00 | 3f | Contact at 55 degrees to core axis. | | | | | | | | | |
| 204.20 | 204.20 | 3f | Banding to core axis 50 degrees. | | | | | | | | | |
| 207.50 | 207.50 | 3f | Banding to core axis 40 degrees. | | | | | | | | | |
| 208.72 | 210.38 | 2n | Greywacke (unit 1a) | | | | | | | | | |
| 208.72 | 210.38 | 2g | 100% 1a. 1a is light grey and massive. | | | | | | | | | |
| 208.72 | 208.72 | 3f | Contact at 55 degrees to core axis. | | | | | | | | | |
| 210.38 | 214.00 | 2n | Oxide iron formation (unit 2c) | | | | | | | | | |
| 210.38 | 214.00 | 2g | 95% 2c, and 5% 5b and 5ba 2c is well banded (<1-6cm) chert-magnetite with grunerite primarily occurring in a network of <1-3mm wide veins. Banding becomes disrupted towards the base of the interval. 5b's (calcite) up to 15cm wide, but primarily <1-2cm wide, are ragged and discontinuous. Pyrrhotite occurs as random blebs and masses. Trace arsenopyrite occurs as random 1-5mm wide subhedral to euhedral rhombs. | | | | | | | | | |
| 210.38 | 211.00 | 3q | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0.5 | 1 | 4 | 1 | 1 | 3 2T028034 | 0.31 |
| 210.38 | 210.38 | 4f | Contact at 60 degrees to core axis. | | | | | | | | | |
| 211.00 | 212.00 | 3q | 75% 2c, 25% 5b. | 0 | 0 | 0 | trc | 23 | 1 | 2 | 3 2T028035 | 0.07 |
| 212.00 | 213.00 | 3q | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 6 2T028036 | 1.43 |
| 213.00 | 214.00 | 3q | 65% 2c, 30% 1a, 5% 5b. | 0 | 0 | 0 | 0.5 | 4 | 1 | 1 | 3 2T028037 | 0.62 |

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|--------|--------|---|---|------|------|-----|------|------|------|---------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | ASSAYS | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 229.75 | 232.41 | 2g | chlorite +/- pyrrhotite and arsenopyrite. | | | | | | | | | | |
| 229.75 | 230.70 | 3q | 90% 1a, 10% 5ba and 5. | 0 | 0 | trc | 1 | 9 | 8 | 0.5 | 10 | 2T028050 | 0.07 |
| 229.75 | 229.75 | 4f | Contact at 40 degrees to core axis. | | | | | | | | | | |
| 230.70 | 237.53 | 2s | | | | | | | | | | 2T028051 | <0.03 |
| 230.70 | 231.53 | 3q | 90% 1a, 10% 5. | 0 | 0 | 0 | 0 | 10 | 5 | trc | 8 | | |
| 231.51 | 232.41 | 3q | 90% 1a, 10% 5ba and 5. | 0 | 0 | 0.5 | 0.5 | 7 | 4 | 2 | 8 | 2T028052 | 1.30 |
| 232.41 | 240.46 | 2n | Sulphide-bearing silicate iron formation (unit 2da), carbonate and sulphide-bearing quartz vein (5ba), greywacke (unit 1a). | | | | | | | | | | |
| 232.41 | 240.46 | 2g | 28% 2da, 26% 5ba and 5b, 25% 1a, 11% 2d and 10% 2ca. A mixed unit of 2d, 2c, 1a, and 5b. Unit is locally folded (broad open) and sheared. 2d ranges from well banded (<1-2cm) chert-amphibole-chlorite-1a to an irregular mass of chlorite-amphibole that locally merges with chlorite-amphibole envelopes of the quartz-carbonate veins. 2c is well banded (<1-2cm) chert-magnetite-chlorite-1a. Quartz-carbonate (calcite) veins up to 10cm wide are generally ragged and irregular in outline and randomly oriented. Most have chlorite-amphibole envelopes and associated sulphides. Calcite veins (<1-10mm wide) are fracture fill. Pyrrhotite occurs as random to aligned blebs and masses associated with veins and fracture fill and as replacement of magnetite. Arsenopyrite is present as random very fine <1-2mm wide subhedral to euhedral needles and rhombs and as aggregates of 1-3mm wide subhedral rhombs. | | | | | | | | | | |
| 232.41 | 233.00 | 3q | 50% 2d, 50% 5b. | 0 | 0 | 0 | 0 | 20 | 30 | 1 | 5 | 2T028053 | 2.88 |
| 232.41 | 232.41 | 4f | Contact gradational over 5cm. | | | | | | | | | | |
| 233.00 | 234.00 | 3q | 50% 2da, 50% 5ba and 5b | 0 | 0 | 0.5 | 4 | 20 | 30 | 4 | 15 | 2T028054 | 0.51 |
| 234.00 | 235.00 | 3q | 70% 2da, 20% 5ba, 10% 1a. | 0 | 0 | trc | 2 | 15 | 20 | 2 | >20 | 2T028055 | 0.65 |
| 235.00 | 235.87 | 3q | 50% 1a, 30% 2da, 20% 5ba and 5b | 0 | 0 | trc | 2 | 15 | 10 | 4 | 12 | 2T028056 | 0.17 |
| 235.87 | 236.87 | 3q | 25% 2d, 25% 2ca, 25% 1a, 25% 5b and 5ba. | 0 | 0 | 0 | 2 | 15 | 15 | 3 | 12 | 2T028057 | 0.07 |

| 92T028 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 16 | |
|--------|--------|---|--|------|------|-----|------|------|------|------|--------|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 236.50 | 236.50 | 4f | Banding to core axis 45 degrees. | | | | | | | | | | |
| 236.87 | 237.53 | 3q | 60% 1a, 35% 2da, 5% 5b. | 0 | 0 | 0 | 1 | 3 | 4 | 2 | 6 | 2T028058 | 0.07 |
| 237.53 | 238.14 | 3q | 70% 1a, 20% 2d, 10% 5b. | 0 | 0 | 0 | 0.5 | 8 | 4 | 2 | 4 | 2T028059 | 0.14 |
| 238.14 | 238.91 | 3q | 60% 2da, 40% 5ba. | 0 | 0 | trc | 6 | 25 | 4 | 5 | 10 | 2T028060 | 0.27 |
| 238.91 | 239.51 | 3q | 50% 1a, 40% 2d, 10% 5b. | 0 | 0 | 0 | trc | 6 | 15 | 4 | 8 | 2T028061 | <0.03 |
| 239.51 | 240.46 | 3q | 80% 2ca, 15% 5ba and 5b and 5% 1a. | 0 | 0 | trc | 5 | 10 | 5 | 5 | >20 | 2T028062 | 0.24 |
| 240.30 | 240.30 | 4f | Banding to core axis 35 degrees. | | | | | | | | | | |
| 240.46 | 257.10 | 2n | Oxide iron formation (unit 2c), carbonate-bearing quartz vein (unit 5b) | | | | | | | | | | |
| 240.46 | 257.10 | 2g | 90% 2c and 10% 5ba and 5b. 2c is well banded (<1-2cm) magnetite-grunerite-amphibole-chert. Unit is greenish grey in colour. Interval is locally folded (broad open folds) and sheared (broken magnetite bands). Quartz-carbonate (calcite) and calcite veins up to 3cm wide are predominately irregular and ragged in outline with most being discontinuous fracture fill, randomly oriented. Pyrrhotite occurs as random blebs and masses associated with quartz-calcite veins or as fracture fill. Arsenopyrite is present as random <1-3mm wide euhedral rhombs and needles. A 1-2cm wide vein contains massive arsenopyrite with pyrrhotite. | | | | | | | | | | |
| 240.46 | 241.25 | 3q | 90% 2c, 10% 5b. | 0 | 0 | trc | 0.5 | 7 | 8 | 3 | 10 | 2T028063 | 0.14 |
| 240.46 | 240.46 | 4f | Contact at 30 degrees to core axis. | | | | | | | | | | |
| 241.25 | 242.00 | 3q | 90% 2c, 10% 5b and 5ba. | 0 | 0 | trc | 0.5 | 7 | 7 | 3 | 6 | 2T028064 | 0.07 |
| 241.90 | 241.90 | 4f | Banding to core axis 45 degrees. | | | | | | | | | | |
| 242.00 | 243.00 | 3q | 90% 2c, 10% 5b. | 0 | 0 | 0 | trc | 6 | 7 | 4 | 5 | 2T028065 | 0.07 |
| 243.00 | 244.00 | 3q | 90% 2c, 10% 5ba and 5b. | 0 | 0 | 0 | 1 | 7 | 7 | 3 | 8 | 2T028066 | 0.17 |
| 244.00 | 245.00 | 3q | 85% 2c, 15% 5ba and 5b. | 0 | 0 | 0 | 1.5 | 10 | 10 | 5 | 12 | 2T028067 | 0.07 |
| 245.00 | 246.00 | 3q | 95% 2c, 5% 5b. | 0 | 0 | 0 | trc | 3 | 4 | 2 | 7 | 2T028068 | <0.03 |

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| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|--------|--------|-------|----------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T028001 | 55.00 | 56.00 | 1.00 | 60% 3c, 35% 1a, 5% 5. | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0.07 |
| 2T028002 | 56.00 | 56.91 | 0.91 | 45% 3c, 35% 5ba, 20% 2da. | 0 | trc | 0.5 | 0.5 | 25 | 10 | 1 | 1 | 0.96 |
| 2T028003 | 56.91 | 58.38 | 1.47 | 90% 2da, 5% 1a, 5% 5b and 5ba. | 0 | trc | trc | 2 | 3 | 2 | 2 | 8 | 2.61 |
| 2T028004 | 58.38 | 58.98 | 0.60 | 1a. | 0 | 0 | 0 | 0 | 0.5 | trc | 0.5 | 2 | <0.03 |
| 2T028005 | 58.98 | 60.15 | 1.17 | 45% 1a, 45% 2ca, 10% 5b and 5ba. | 0 | trc | trc | 1 | 9 | 8 | 1 | 5 | 0.79 |
| 2T028006 | 60.15 | 61.15 | 1.00 | 95% 1a, 5% 5. | 0 | 0 | 0 | 0 | 5 | 0 | trc | 5 | <0.03 |
| 2T028007 | 159.65 | 160.83 | 1.18 | 95% 2c, 5% 5ba and 5b. | 0 | 0 | 0 | 0.5 | 2 | 1 | 3 | 15 | 0.07 |
| 2T028008 | 160.83 | 161.90 | 1.07 | 95% 2c, 5% 5ba and 5b. | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 10 | 0.21 |
| 2T028009 | 161.90 | 163.00 | 1.10 | 95% 2c, 5% 5b. | 0 | 0 | 0 | trc | 2 | 2 | 3 | 5 | 0.10 |
| 2T028010 | 163.00 | 164.50 | 1.50 | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0 | trc | 2 | 2 | 3 | 11 | 0.45 |
| 2T028011 | 164.50 | 165.47 | 0.97 | 90% 2c, 10% 5b and 5ba. | 0 | 0 | 0 | 0.5 | 5 | 4 | 5 | 15 | <0.03 |
| 2T028012 | 165.47 | 166.24 | 0.77 | 80% 2ca, 20% 5ba. | 0 | 0 | trc | 2 | 15 | 4 | 5 | 15 | 0.20 |
| 2T028013 | 166.24 | 167.00 | 0.76 | 90% 2ca, 10% 5ba and 5b. | 0 | 0 | trc | 2 | 5 | 3 | 5 | 10 | <0.03 |
| 2T028014 | 167.00 | 167.74 | 0.74 | 70% 1a, 30% 5. | 0 | 0 | 0 | 0 | 30 | 8 | 0 | >20 | 0.07 |
| 2T028015 | 167.74 | 168.69 | 0.95 | 70% 1a, 30% 5. | 0 | 0 | 0 | 0 | 30 | 4 | 0 | >20 | <0.03 |
| 2T028016 | 168.69 | 169.55 | 0.86 | 95% 2ca, 5% 5b and 5ba. | 0 | 0 | trc | 2 | 2 | 6 | 3 | 8 | 0.27 |
| 2T028017 | 169.55 | 170.43 | 0.88 | 75% 2c, 20% 1a, 5% 5b and 5ba. | 0 | 0 | trc | 1 | 2 | 5 | 3 | 4 | <0.03 |
| 2T028018 | 170.43 | 171.30 | 0.87 | 4b. | 0 | 0 | 0 | 0 | 1 | trc | 1 | 2 | <0.03 |
| 2T028019 | 171.30 | 171.91 | 0.61 | 90% 1a, 10% 5b. | 0 | 0 | 0 | 0 | 8 | trc | 2 | 5 | <0.03 |
| 2T028020 | 171.91 | 172.82 | 0.91 | 80% 3c, 15% 2da, 5% 5. | 0 | trc | trc | 1 | 5 | 1 | trc | 5 | 0.07 |
| 2T028021 | 172.82 | 173.50 | 0.68 | 90% 2c, 10% 2da. | 0 | 0 | trc | trc | 1 | trc | 0 | 1 | <0.03 |
| 2T028022 | 178.00 | 178.64 | 0.64 | 95% 2c, 5% 5ba. | 0 | 0 | 0 | 0.5 | 2 | 3 | 3 | 2 | <0.03 |
| 2T028023 | 178.64 | 179.26 | 0.62 | 2c. | 0 | 0 | 0 | trc | trc | 1 | trc | 1 | 0.17 |
| 2T028024 | 179.26 | 180.37 | 1.11 | 50% 2ca, 50% 5ba. | 0 | 7 | 4 | 5 | 8 | 20 | 10 | 1 | 7.68 |
| 2T028025 | 180.37 | 181.00 | 0.63 | 2c. | 0 | 0 | 0 | 0 | 0.5 | 5 | trc | 1 | 0.17 |
| 2T028026 | 181.00 | 182.00 | 1.00 | 2c. | 0 | 0 | 0 | 0 | 0.5 | 3 | 0.5 | 5 | <0.03 |
| 2T028027 | 182.00 | 183.00 | 1.00 | 95% 2c, 5% 5b. | 0 | 0 | 0 | 0 | 2 | 5 | 3 | 10 | <0.03 |
| 2T028028 | 183.00 | 184.00 | 1.00 | 2c. | 0 | 0 | 0 | trc | 1 | 3 | 2 | 2 | <0.03 |
| 2T028029 | 184.00 | 185.00 | 1.00 | 95% 2c, 5% 5b and 5ba. | 0 | 0 | trc | 0.5 | 3 | 3 | 2 | 5 | 0.07 |
| 2T028030 | 185.00 | 185.87 | 0.87 | 90% 2c, 10% 5b and 5ba. | 0 | 0 | 0.5 | 0.5 | 5 | 6 | 5 | 10 | 0.17 |
| 2T028031 | 185.87 | 187.13 | 1.26 | 70% 2ca, 25% 1a, 5% 5b and 5ba. | 0 | 0 | 0.5 | 2 | 3 | 7 | 2 | 8 | 0.14 |
| 2T028032 | 187.13 | 188.00 | 0.87 | 3c. | 0 | 0 | trc | trc | 5 | 0 | 0 | 15 | <0.03 |
| 2T028033 | 193.00 | 194.46 | 1.46 | 95% 2c, 5% 5ba and 5b. | 0 | 0 | 0.5 | 1 | 3 | 1 | 2 | 3 | 0.10 |
| 2T028034 | 210.38 | 211.00 | 0.62 | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0.5 | 1 | 4 | 1 | 1 | 3 | 0.31 |
| 2T028035 | 211.00 | 212.00 | 1.00 | 75% 2c, 25% 5b. | 0 | 0 | 0 | trc | 23 | 1 | 2 | 3 | 0.07 |
| 2T028036 | 212.00 | 213.00 | 1.00 | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 6 | 1.43 |
| 2T028037 | 213.00 | 214.00 | 1.00 | 65% 2c, 30% 1a, 5% 5b. | 0 | 0 | 0 | 0.5 | 4 | 1 | 1 | 3 | 0.62 |
| 2T028038 | 214.00 | 215.00 | 1.00 | 90% 2ca, 10% 5ba and 5b. | 0 | 0 | 0.5 | 3 | 7 | 5 | 3 | 6 | 1.13 |
| 2T028039 | 215.00 | 215.68 | 0.68 | 90% 2c, 10% 5b. | 0 | 0 | 0 | trc | 7 | 1 | 3 | 5 | 0.07 |
| 2T028040 | 221.33 | 222.28 | 0.95 | 90% 2c, 10% 5b and 5ba. | 0 | 0 | 0 | 0.5 | 6 | 1 | 4 | 6 | 0.38 |
| 2T028041 | 222.28 | 223.28 | 1.00 | 50% 2ca, 50% 5ba. | 0 | 5 | 0.5 | 5 | 35 | 5 | 8 | 12 | 0.14 |
| 2T028042 | 223.28 | 224.28 | 1.00 | 5ba. | 0 | trc | 3 | trc | 10 | 40 | 2 | 1 | 0.65 |
| 2T028043 | 224.28 | 225.00 | 0.72 | 5ba. | 0 | trc | 1 | 3 | 45 | 25 | 2 | 1 | 0.86 |

VISUAL ESTIMATE REPORT

HOLE: 92T028

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| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|--------|--------|-------|--|------|------|-----|------|------|------|------|-----|--------|
| 2T028044 | 225.00 | 226.00 | 1.00 | 5ba | 0 | trc | trc | 4 | 55 | 15 | 2 | 1 | <0.03 |
| 2T028045 | 226.00 | 227.00 | 1.00 | 5ba. | 0 | trc | 0.5 | 5 | 70 | 10 | 5 | 1 | 0.61 |
| 2T028046 | 227.00 | 227.70 | 0.70 | 5ba. | 0 | trc | trc | 4 | 70 | 10 | 5 | 1 | 0.89 |
| 2T028047 | 227.70 | 228.30 | 0.60 | 5b. | 0 | trc | 0.5 | 0.5 | 40 | 20 | 3 | 1 | 4.52 |
| 2T028048 | 228.30 | 229.00 | 0.70 | 5b. | 0 | 0 | 0 | trc | 50 | 15 | 5 | 1 | 0.17 |
| 2T028049 | 229.00 | 229.75 | 0.75 | 80% 5b, 20% 1a. | 0 | 0 | 0 | 1 | 40 | 5 | 4 | 10 | 0.48 |
| 2T028050 | 229.75 | 230.70 | 0.95 | 90% 1a, 10% 5ba and 5. | 0 | 0 | trc | 1 | 9 | 8 | 0.5 | 10 | 0.07 |
| | 230.70 | 231.53 | 0.83 | 90% 1a, 10% 5. | 0 | 0 | 0 | 0 | 10 | 5 | trc | 8 | |
| 2T028052 | 231.51 | 232.41 | 0.90 | 90% 1a, 10% 5ba and 5. | 0 | 0 | 0.5 | 0.5 | 7 | 4 | 2 | 8 | 1.30 |
| 2T028053 | 232.41 | 233.00 | 0.59 | 50% 2d, 50% 5b. | 0 | 0 | 0 | 0 | 20 | 30 | 1 | 5 | 2.88 |
| 2T028054 | 233.00 | 234.00 | 1.00 | 50% 2da, 50% 5ba and 5b | 0 | 0 | 0.5 | 4 | 20 | 30 | 4 | 15 | 0.51 |
| 2T028055 | 234.00 | 235.00 | 1.00 | 70% 2da, 20% 5ba, 10% 1a. | 0 | 0 | trc | 2 | 15 | 20 | 2 | >20 | 0.65 |
| 2T028056 | 235.00 | 235.87 | 0.87 | 50% 1a, 30% 2da, 20% 5ba and 5b | 0 | 0 | trc | 2 | 15 | 10 | 4 | 12 | 0.17 |
| 2T028057 | 235.87 | 236.87 | 1.00 | 25% 2d, 25% 2ca, 25% 1a, 25% 5b and 5ba. | 0 | 0 | 0 | 2 | 15 | 15 | 3 | 12 | 0.07 |
| 2T028058 | 236.87 | 237.53 | 0.66 | 60% 1a, 35% 2da, 5% 5b. | 0 | 0 | 0 | 1 | 3 | 4 | 2 | 6 | 0.07 |
| 2T028059 | 237.53 | 238.14 | 0.61 | 70% 1a, 20% 2d, 10% 5b. | 0 | 0 | 0 | 0.5 | 8 | 4 | 2 | 4 | 0.14 |
| 2T028060 | 238.14 | 238.91 | 0.77 | 60% 2da, 40% 5ba. | 0 | 0 | trc | 6 | 25 | 4 | 5 | 10 | 0.27 |
| 2T028061 | 238.91 | 239.51 | 0.60 | 50% 1a, 40% 2d, 10% 5b. | 0 | 0 | 0 | trc | 6 | 15 | 4 | 8 | <0.03 |
| 2T028062 | 239.51 | 240.46 | 0.95 | 80% 2ca, 15% 5ba and 5b and 5% 1a. | 0 | 0 | trc | 5 | 10 | 5 | 5 | >20 | 0.24 |
| 2T028063 | 240.46 | 241.25 | 0.79 | 90% 2c, 10% 5b. | 0 | 0 | trc | 0.5 | 7 | 8 | 3 | 10 | 0.14 |
| 2T028064 | 241.25 | 242.00 | 0.75 | 90% 2c, 10% 5b and 5ba. | 0 | 0 | trc | 0.5 | 7 | 7 | 3 | 6 | 0.07 |
| 2T028065 | 242.00 | 243.00 | 1.00 | 90% 2c, 10% 5b. | 0 | 0 | 0 | trc | 6 | 7 | 4 | 5 | 0.07 |
| 2T028066 | 243.00 | 244.00 | 1.00 | 90% 2c, 10% 5ba and 5b. | 0 | 0 | 0 | 1 | 7 | 7 | 3 | 8 | 0.17 |
| 2T028067 | 244.00 | 245.00 | 1.00 | 85% 2c, 15% 5ba and 5b. | 0 | 0 | 0 | 1.5 | 10 | 10 | 5 | 12 | 0.07 |
| 2T028068 | 245.00 | 246.00 | 1.00 | 95% 2c, 5% 5b. | 0 | 0 | 0 | trc | 3 | 4 | 2 | 7 | <0.03 |
| 2T028069 | 246.00 | 247.12 | 1.12 | 90% 2c, 10% 5ba and 5b. | 0 | 0 | 1 | 0.5 | 8 | 5 | 2 | 4 | 0.62 |
| 2T028070 | 247.12 | 248.00 | 0.88 | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0 | 0.5 | 3 | 4 | 2 | 3 | 0.14 |
| 2T028071 | 248.00 | 249.00 | 1.00 | 2c. | 0 | 0 | 0 | trc | 2 | 3 | 1 | 8 | 0.07 |
| 2T028072 | 249.00 | 250.00 | 1.00 | 90% 2c, 10% 5b. | 0 | 0 | 0 | 0 | 7 | 4 | 3 | 5 | 0.07 |
| 2T028073 | 250.00 | 251.00 | 1.00 | 90% 2c, 10% 5ba and 5b. | 1 | 0 | trc | 0.5 | 7 | 4 | 3 | 10 | 0.41 |
| 2T028074 | 251.00 | 252.00 | 1.00 | 90% 2c, 10% 5b. | 0 | 0 | 0 | trc | 7 | 4 | 3 | 5 | 0.10 |
| 2T028075 | 252.00 | 253.00 | 1.00 | 95% 2c, 5% 5b. | 0 | 0 | 0 | 0.5 | 3 | 3 | 2 | 5 | 0.07 |

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: AYERS

DDH NO: 927028

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|------------------------|--------|
| 3.05 | 5.49 | 71 | 53 | | |
| 5.49 | 7.01 | 100 | 63 | | |
| 7.01 | 8.53 | 100 | 87 | | |
| 8.53 | 9.45 | 107 | 76 | | |
| 9.45 | 11.28 | 66 | 16 | Fe staining | |
| 11.28 | 13.11 | 100 | 63 | Fe stain | |
| 13.11 | 14.63 | 83 | 57 | | |
| 14.63 | 15.54 | 100 | 30 | | |
| 15.54 | 17.37 | 72 | 5 | Broken and ground core | |
| 17.37 | 18.29 | 77 | 0 | " " " " | |
| 18.29 | 20.73 | 74 | 39 | Broken core | |
| 20.73 | 23.77 | 97 | 77 | | |
| 23.77 | 26.52 | 100 | 91 | | |
| 26.52 | 29.87 | 105 | 75 | | |
| 29.87 | 32.92 | 92 | 66 | | |
| 32.92 | 35.97 | 103 | 90 | | |
| 35.97 | 39.01 | 93 | 66 | | |
| 39.01 | 42.06 | 95 | 56 | | |
| 42.06 | 45.11 | 100 | 44 | | |
| 45.11 | 48.16 | 98 | 85 | | |
| 48.16 | 51.21 | 95 | 67 | | |
| 51.21 | 54.25 | 92 | 72 | | |
| 54.25 | 57.30 | 97 | 52 | | |
| 57.30 | 60.35 | 102 | 95 | | |
| 60.35 | 63.40 | 98 | 89 | | |
| 63.40 | 66.45 | 97 | 79 | | |
| 66.45 | 69.49 | 100 | 82 | | |
| 69.49 | 72.54 | 102 | 97 | | |
| 72.54 | 75.59 | 96 | 74 | | |
| 75.59 | 78.64 | 93 | 67 | | |
| 78.64 | 81.69 | 102 | 85 | | |
| 81.69 | 84.73 | 102 | 87 | | |
| 84.73 | 87.78 | 95 | 62 | Ground core | |
| 87.78 | 90.83 | 100 | 59 | | |
| 90.83 | 93.88 | 100 | 92 | | |
| 93.88 | 96.93 | 100 | 98 | | |
| 96.93 | 99.97 | 98 | 95 | | |
| 99.97 | 103.04 | 93 | 90 | | |
| 103.04 | 106.07 | 113 | 93 | | |
| 106.07 | 109.12 | 98 | 87 | | |
| 109.12 | 110.64 | 89 | 66 | | |
| 110.64 | 112.17 | 100 | 85 | | |
| 112.17 | 115.21 | 97 | 92 | | |
| 115.21 | 118.26 | 98 | 97 | | |
| 118.26 | 121.31 | 100 | 98 | | |

112.17

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: AYERS

DDH NO: 92T028

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|-----------------|--------|
| 121.31 | 124.36 | 100 | 82 | | |
| 124.36 | 127.41 | 100 | 69 | | |
| 127.41 | 130.45 | 100 | 88 | | |
| 130.45 | 133.50 | 100 | 95 | | |
| 133.50 | 136.55 | 100 | 98 | | |
| 136.55 | 139.60 | 100 | 98 | | |
| 139.60 | 142.65 | 100 | 79 | | |
| 142.65 | 144.48 | 100 | 73 | | |
| 144.48 | 145.69 | 84 | 84 | | |
| 145.69 | 148.74 | 98 | 95 | | |
| 148.74 | 151.79 | 102 | 62 | | |
| 151.79 | 154.84 | 98 | 80 | | |
| 154.84 | 157.89 | 100 | 96 | | |
| 157.89 | 160.93 | 98 | 90 | | |
| 160.93 | 163.98 | 102 | 98 | | |
| 163.98 | 167.03 | 100 | 98 | | |
| 167.03 | 170.08 | 98 | 72 | | |
| 170.08 | 173.13 | 98 | 63 | | |
| 173.13 | 176.17 | 102 | 94 | | |
| 176.17 | 179.22 | 100 | 98 | | |
| 179.22 | 182.27 | 95 | 92 | | |
| 182.27 | 185.32 | 103 | 100 | | |
| 185.32 | 188.37 | 100 | 79 | 187.50 - 188.10 | |
| 188.37 | 191.41 | 100 | 92 | | |
| 191.41 | 194.46 | 99 | 89 | | |
| 194.46 | 197.51 | 100 | 100 | | |
| 197.51 | 200.56 | 100 | 97 | | |
| 200.56 | 203.61 | 100 | 90 | | |
| 203.61 | 205.44 | 112 | 98 | | |
| 205.44 | 208.48 | 102 | 84 | | |
| 208.48 | 209.70 | 73 | 33 | | |
| 209.70 | 212.75 | 98 | 76 | | |
| 212.75 | 215.80 | 100 | 75 | | |
| 215.80 | 217.93 | 86 | 40 | | |
| 217.93 | 220.37 | 92 | 18 | | |
| 220.37 | 221.89 | 87 | 36 | | |
| 221.89 | 224.94 | 100 | 86 | | |
| 224.94 | 227.99 | 100 | 84 | | |
| 227.99 | 231.04 | 102 | 90 | | |
| 231.04 | 234.09 | 100 | 86 | | |
| 234.09 | 237.13 | 97 | 92 | | |
| 237.13 | 240.18 | 100 | 84 | | |
| 240.18 | 243.23 | 98 | 87 | | |
| 243.23 | 246.28 | 102 | 95 | | |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|---|--|--|--------|---------|--|--------------------|---------------------|--------------------------|
| Permit/Claim Location: Grid Northing: Grid Westing: Ground Elevation: Collar Height: Hole - Azimuth: - Inclination: - Length: | BRAU 30 Ayers A300.00NW metres 060.10SW metres 296.02 metres 0.50 metres 037 degrees -45 degrees 145.69 metres | To test for gold-bearing iron formation at an elevation of approximately 220m above sea level (75m below surface). | | | Date Started: July 22, 1992 Date Completed: July 23, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 26 Casing Length: 3.05BW | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 25.91 | | -46.0 | 1 | GOCC | Gold Occurrence | 00826.4 | 001-004 |
| Rotodip | 56.39 | | -45.0 | 2 | PYRT | Pyrite | 00846.4 | 015-039 |
| Rotodip | 86.87 | | -44.0 | 3 | ASP | Arsenopyrite | | |
| Rotodip | 117.35 | | -44.0 | 4 | PYRH | Pyrrhotite | | |
| Rotodip | 141.73 | | -43.0 | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
|--------|-------|------|--|------|------|-----|------|------|------|------|--------|----------|-------|
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 36.70 | 38.80 | 2g | Medium to coarse grained 4a. Interval consists of broken and ground core due to a mismatch of the core tube. Contacts are approximate. | | | | | | | | | | |
| 38.00 | 38.80 | 3q | 100% 4b. Exact position of contact not known due to mismatch of core tube. Broken and ground core. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2T029001 | <0.03 |
| 38.80 | 69.15 | 1n | Oxide iron formation (unit 2c)/greywacke (unit 1a)/phyllitic mudstone (unit 3a)/mudstone (unit 3c)/quartz vein (unit 5)/carbonate-bearing quartz vein (unit 5b)/sulphide-bearing oxide iron formation (unit 2ca)/intermediate dyke (unit 4b). | | | | | | | | | | |
| 38.80 | 41.00 | 2n | Carbonate-bearing quartz vein (unit 5b), sulphide-bearing oxide iron formation (unit 2ca) | | | | | | | | | | |
| 38.80 | 41.00 | 2g | 75% 5b and 5ba, and 25% 2ca. 2c is well banded (<1-2cm) chert-magnetite-amphibole-chlorite. Quartz-carbonate (iron carbonate) veins up to about 30cm wide are irregular and ragged in outline and are oriented parallel to banding. Pyrite occurs as random blebs and masses and as fracture fill. Pyrrhotite is present as replacement of magnetite and as random blebs. Arsenopyrite occurs as aligned 1-3mm wide subhedral rhombs. | | | | | | | | | | |
| 38.80 | 40.00 | 3q | 5b. 60cm lost core? | 0 | trc | 0.5 | 0 | 75 | 15 | 10 | 1 | 2T029002 | 0.41 |
| 40.00 | 41.00 | 3q | 60% 2ca, 40% 5b and 5ba. | 0 | 0 | 0 | 0.5 | 1 | 8 | 2 | 5 | 2T029003 | 0.07 |
| 41.00 | 43.64 | 2n | Oxide iron formation (unit 2c) | | | | | | | | | | |
| 41.00 | 43.64 | 2g | 85% 2c, 10% 1a and 3c and 5% 5b. 2c is well banded (<1-2cm) magnetite-amphibole-chert. Unit is black in colour. Grunerite occurs in a network of <1-3mm wide veins. Quartz-carbonate (calcite) veins up to 2cm wide are sharp in outline and randomly oriented. | | | | | | | | | | |
| 41.00 | 42.00 | 3q | Trace pyrrhotite replaces magnetite. 70% 2c, 25% 1a and 3c, 5% 5b. | 0 | 0 | 0 | trc | 5 | 5 | trc | 5 | 2T029004 | <0.03 |

| 92T029 | | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 4 | | | |
|--------|-------|------|---|------|------|-----|------|------|------|--------|--------|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 41.00 | 41.00 | 4f | Contact at 60 degrees to core axis. | | | | | | | | | | |
| 43.00 | 43.00 | 3f | Banding to core axis 50 degrees. | | | | | | | | | | |
| 43.64 | 44.87 | 2n | Phyllitic mudstone (unit 3a), intermediate dyke (unit 4b). | | | | | | | | | | |
| 43.64 | 44.87 | 2g | 65% 3a and 35% 4b. 3a is well foliated with one band of possible tuff unit. 4b is massive and fine grained. | | | | | | | | | | |
| 43.64 | 43.64 | 3f | Contact at 50 degrees to core axis. | | | | | | | | | | |
| 43.99 | 44.03 | 3c | Possible tuff unit, bedding to core axis 60 degrees. | | | | | | | | | | |
| 44.46 | 44.87 | 3c | 4b. | | | | | | | | | | |
| 44.46 | 44.46 | 4f | Contact at 75 degrees to core axis. | | | | | | | | | | |
| 44.87 | 59.36 | 2n | Oxide iron formation (unit 2c), greywacke (unit 1a), quartz vein (unit 5) | | | | | | | | | | |
| 44.87 | 59.36 | 2g | 45% 2c, 25% 1a, 14% 5, 5b and 5ba, 7% 2ca, 5% 2d and 4% 3c and 3a. 2c is poorly to well banded (<1-2cm) magnetite-amphibole with minor chert bands locally. Unit is black in colour. Locally unit is folded (broad open folds). 1a is massive to well foliated and locally interbedded with minor 3c. In places 1a is chloritic, especially adjacent to veins and to 2c. Quartz and quartz-carbonate (calcite) veins up to 10cm wide are sharp to ragged in outline and primarily oriented parallel to banding. Pyrrhotite occurs as replacement of magnetite and as random blebs and fracture fill. Pyrite occurs locally as fracture fill. Trace arsenopyrite is present as random to aligned <1-3mm wide subhedral rhombs. | | | | | | | | | | |
| 44.87 | 45.80 | 3q | 2c. | 0 | 0 | 0 | trc | 2 | 1 | 0.5 | 3 | 2T029005 | <0.03 |
| 44.87 | 44.87 | 4f | Contact at 60 degrees to core axis. | | | | | | | | | | |
| 45.80 | 46.90 | 3q | 65% 2c, 25% 5b and 5ba, 10% 3c. | 0 | 1 | 0.5 | trc | 28 | 5 | 3 | 8 | 2T029006 | 0.07 |
| 46.90 | 47.91 | 3q | 75% 1a, 25% 5. | 0 | 0 | 0 | 0 | 20 | 10 | 2 | 6 | 2T029007 | <0.03 |
| 47.91 | 49.00 | 3q | 95% 2ca, 5% 5b and 5ba. | 0 | 2 | 0 | 2 | 4 | 2 | 1 | 4 | 2T029008 | <0.03 |
| 49.00 | 50.00 | 3q | 95% 2c, 5% 5b and 5ba. | 0 | 0 | trc | 0.5 | 3 | 2 | 2 | 6 | 2T029009 | <0.03 |

| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
|--------|-------|------|---|------|------|-----|------|------|------|------|--------|----------|-------|
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 49.20 | 49.20 | 4f | Banding to core axis 65 degrees. | | | | | | | | | | |
| 50.00 | 51.00 | 3q | 95% 2c, 5% 5b. | 0 | 0 | 0 | 0.5 | 3 | 5 | 2 | 7 | 2T029010 | <0.03 |
| 51.00 | 51.90 | 3c | 90% chloritic 1a, 10% 5 and 5b. | | | | | | | | | | |
| 51.90 | 53.08 | 3c | 90% 2c, 10% 5b. | | | | | | | | | | |
| 52.85 | 52.85 | 4f | Fold nose (broad open). | | | | | | | | | | |
| 53.08 | 53.60 | 3c | 95% chloritic 1a, 5% 5. | | | | | | | | | | |
| 53.60 | 54.56 | 3q | 2c. | 0 | trc | trc | 1 | 2 | 2 | 0.5 | 3 | 2T029011 | 0.07 |
| 54.56 | 55.48 | 3c | 60% 3a, 40% 5. | | | | | | | | | | |
| 55.48 | 56.10 | 3c | 60% 2c, 40% 5 and 5b. | | | | | | | | | | |
| 56.00 | 56.00 | 4f | Banding to core axis 50 degrees. | | | | | | | | | | |
| 56.10 | 57.00 | 3c | 2d. Chlorite-amphibole. | | | | | | | | | | |
| 57.00 | 57.85 | 3c | 1a. | | | | | | | | | | |
| 57.85 | 58.55 | 3c | 2c, trace pyrite. | | | | | | | | | | |
| 58.55 | 59.36 | 3c | 1a. | | | | | | | | | | |
| 59.36 | 60.40 | 2n | Mudstone (unit 3c) | | | | | | | | | | |
| 59.36 | 60.40 | 2g | 100% 3c. Black, massive to weakly foliated. | | | | | | | | | | |
| 59.36 | 59.36 | 3f | Contact at 40 degrees to core axis. | | | | | | | | | | |
| 60.40 | 69.15 | 2n | Greywacke (unit 1a), oxide iron formation (unit 2c), silicate iron formation (unit 2d). | | | | | | | | | | |
| 60.40 | 69.15 | 2g | 46% 1a, 28% 2c, 18% 2d, 6% 5, 5b and 5ba and 2% 3c. Description is the same as that for the interval from 44.87 to 59.36m. | | | | | | | | | | |
| 60.40 | 60.90 | 3c | 80% chloritic 1a and 20% 5. | | | | | | | | | | |
| 60.40 | 60.40 | 4f | Contact obscured by quartz veins. | | | | | | | | | | |
| 60.90 | 61.96 | 3q | 95% 2c, 5% 5b and 5ba. | 0 | 1 | 0 | 0 | 3 | 4 | 2 | 10 | 2T029012 | 0.07 |

| 92T029 | | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | Page 7 | | |
|--------|-------|------|---|------|------|-----|------|------|------|------|--------|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 87.58 | 88.50 | 3g | 90% 2c and 10% 4b. 2c is well banded (<1-2cm) magnetite-amphibole-grunerite-chert. | | | | | | | | | | |
| 88.00 | 88.00 | 4f | Banding to core axis 60 degrees. | | | | | | | | | | |
| 88.50 | 89.88 | 2n | Greywacke (unit 1a) | | | | | | | | | | |
| 88.50 | 89.88 | 2g | 98% 1a and 2% 2da. Massive to weakly foliated. | | | | | | | | | | |
| 88.50 | 88.50 | 3f | Contact at 55 degrees to core axis. | | | | | | | | | | |
| 89.88 | 91.40 | 2n | Oxide iron formation (unit 2c) | | | | | | | | | | |
| 89.88 | 91.40 | 2g | 100% 2c. Description is the same as that for interval from 87.48 to 88.50m. Locally folded. | | | | | | | | | | |
| 89.88 | 89.88 | 3f | Contact at 60 degrees to core axis. | | | | | | | | | | |
| 91.40 | 93.78 | 2n | Greywacke (unit 1a) | | | | | | | | | | |
| 91.40 | 93.78 | 2g | 95% 1a and 5% 5. Massive to weakly foliated. | | | | | | | | | | |
| 91.40 | 91.40 | 3f | Contact obscured by chlorite. | | | | | | | | | | |
| 93.78 | 99.25 | 2n | Oxide iron formation (unit 2c), sulphide-bearing oxide iron formation (unit 2ca), mudstone (unit 3c) | | | | | | | | | | |
| 93.78 | 99.25 | 2g | 50% 2c, 28% 2ca, 18% 3c and 5% 5b and 5ba. 2c is well banded (<1-3cm) magnetite-chert-grunerite-amphibole. Quartz-carbonate (calcite) veins up to 3cm wide are sharp to ragged in outline and randomly oriented. Pyrrhotite occurs as random blebs and masses associated with 5b's and as replacement of magnetite. Arsenopyrite occurs as random 1-3mm wide subhedral rhombs associated with 5b's. | | | | | | | | | | |
| 93.78 | 94.66 | 3q | 90% 2ca, 10% 5b and 5ba. | 0 | trc | 0 | 2 | 8 | 2 | 2 | 4 | 2T029015 | <0.03 |

| 92T029 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | Page 9 | | | |
|--------|--------|---|--|------|------|-----|------|------|------|--------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | ASSAYS | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 102.45 | 102.45 | 4f | Fold nose (broad, open). | | | | | | | | | | |
| 103.00 | 104.17 | 3q | 55% 2c, 40% 3a, 5% 5ba and 5b. | 0 | 0 | 0 | 0.5 | 2 | 5 | 3 | 3 | 2T029021 | <0.03 |
| 104.17 | 105.34 | 3q | 90% 2ca, 10% 5ba, and 5b. | 0 | 0 | 0 | 2 | 6 | 5 | 4 | 8 | 2T029022 | 0.10 |
| 104.90 | 104.90 | 4f | Fold nose (broad, open). | | | | | | | | | | |
| 105.34 | 106.22 | 3q | 70% 2c, 30% 3c. | 0 | 0 | 0 | 1 | 1 | 8 | 2 | 2 | 2T029023 | 0.07 |
| 106.00 | 106.00 | 4f | Banding to core axis 10 degrees. | | | | | | | | | | |
| 106.22 | 107.31 | 3q | 60% 5ba and 5b, 40% 3b. | 0 | trc | 0.5 | 0 | 40 | 15 | 5 | 4 | 2T029024 | <0.03 |
| 107.31 | 108.70 | 3q | 65% 5b and 5ba, 35% 1a. | 0 | trc | trc | 0.5 | 50 | 10 | 4 | 12 | 2T029025 | 0.07 |
| 108.70 | 109.64 | 3q | 40% 1a, 40% 2da, 20% 5b and 5ba. | 0 | 1 | trc | 1 | 16 | 8 | 4 | 10 | 2T029026 | 0.20 |
| 109.64 | 111.69 | 2n | Intermediate dyke (unit 4b) | | | | | | | | | | |
| 109.64 | 111.69 | 2g | 97% 4b and 3% 5b. 4b is fine grained, equigranular and moderately to strongly siliceous. Minor hematite is present in veins and within adjacent 4b. | | | | | | | | | | |
| 109.64 | 110.65 | 3q | 4b. | 0 | 0 | 0 | 0 | 2 | trc | 1 | 9 | 2T029027 | <0.03 |
| 109.64 | 109.64 | 4f | Contact at 40 degrees to core axis. | | | | | | | | | | |
| 110.65 | 111.69 | 3q | 4b. | 0 | 0 | 0 | 0 | 2 | trc | 1 | 8 | 2T029028 | <0.03 |
| 111.69 | 115.60 | 2n | Sulphide-bearing oxide iron formation (unit 2ca), carbonate-bearing quartz vein (unit 5b) | | | | | | | | | | |
| 111.69 | 115.60 | 2g | 46% 2ca, 39% 5b and 5ba, and 15% 2c. Interval description is the same as from interval from 102.22-109.64m. | | | | | | | | | | |
| 111.69 | 113.00 | 3q | 80% 5b and 5ba, 20% 2ca. | 0 | 2 | 0 | 0.5 | 60 | 8 | 10 | >20 | 2T029029 | 0.20 |
| 111.69 | 111.69 | 4f | Contact at 60 degrees to core axis. | | | | | | | | | | |
| 113.00 | 114.00 | 3q | 60% 2c, 40% 5b and 5ba. | 0 | 0.5 | 0 | 0 | 30 | 8 | 2 | 6 | 2T029030 | <0.03 |
| 113.60 | 113.60 | 4f | Banding to core axis 40 degrees. | | | | | | | | | | |
| 114.00 | 114.94 | 3q | 95% 2ca, 5% 5b and 5ba. | 0 | 0 | 0 | 2 | 4 | 8 | 1 | 5 | 2T029031 | 0.07 |

VISUAL ESTIMATE REPORT

HOLE: 92T029

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|--------|--------|-------|----------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T029001 | 38.00 | 38.80 | 0.80 | 100% 4b. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <0.03 |
| 2T029002 | 38.80 | 40.00 | 1.20 | 5b. | 0 | trc | 0.5 | 0 | 75 | 15 | 10 | 1 | 0.41 |
| 2T029003 | 40.00 | 41.00 | 1.00 | 60% 2ca, 40% 5b and 5ba. | 0 | 0 | 0 | 0.5 | 1 | 8 | 2 | 5 | 0.07 |
| 2T029004 | 41.00 | 42.00 | 1.00 | 70% 2c, 25% 1a and 3c, 5% 5b. | 0 | 0 | 0 | trc | 5 | 5 | trc | 5 | <0.03 |
| 2T029005 | 44.87 | 45.80 | 0.93 | 2c. | 0 | 0 | 0 | trc | 2 | 1 | 0.5 | 3 | <0.03 |
| 2T029006 | 45.80 | 46.90 | 1.10 | 65% 2c, 25% 5b and 5ba, 10% 3c. | 0 | 1 | 0.5 | trc | 28 | 5 | 3 | 8 | 0.07 |
| 2T029007 | 46.90 | 47.91 | 1.01 | 75% 1a, 25% 5. | 0 | 0 | 0 | 0 | 20 | 10 | 2 | 6 | <0.03 |
| 2T029008 | 47.91 | 49.00 | 1.09 | 95% 2ca, 5% 5b and 5ba. | 0 | 2 | 0 | 2 | 4 | 2 | 1 | 4 | <0.03 |
| 2T029009 | 49.00 | 50.00 | 1.00 | 95% 2c, 5% 5b and 5ba. | 0 | 0 | trc | 0.5 | 3 | 2 | 2 | 6 | <0.03 |
| 2T029010 | 50.00 | 51.00 | 1.00 | 95% 2c, 5% 5b. | 0 | 0 | 0 | 0.5 | 3 | 5 | 2 | 7 | <0.03 |
| 2T029011 | 53.60 | 54.56 | 0.96 | 2c. | 0 | trc | trc | 1 | 2 | 2 | 0.5 | 3 | 0.07 |
| 2T029012 | 60.90 | 61.96 | 1.06 | 95% 2c, 5% 5b and 5ba. | 0 | 1 | 0 | 0 | 3 | 4 | 2 | 10 | 0.07 |
| 2T029013 | 61.96 | 62.96 | 1.00 | 95% 1a, 5% 5b and 5ba. | 0 | 0.5 | trc | 0 | 3 | 4 | 2 | 6 | 0.27 |
| 2T029014 | 62.96 | 64.00 | 1.04 | 95% 2c, 5% 5b and 5ba. | 0 | 0.5 | 0.5 | 0.5 | 3 | 2 | 2 | 10 | 0.24 |
| 2T029015 | 93.78 | 94.66 | 0.88 | 90% 2ca, 10% 5b and 5ba. | 0 | trc | 0 | 2 | 8 | 2 | 2 | 4 | <0.03 |
| 2T029016 | 94.66 | 95.66 | 1.00 | 90% 2c, 10% 5ba and 5b. | 0 | 0 | 0 | 1 | 7 | 2 | 3 | 8 | <0.03 |
| 2T029017 | 95.66 | 96.42 | 0.76 | 3c. | 0 | 0 | 0 | 0 | 3 | 0 | trc | 5 | <0.03 |
| 2T029018 | 96.42 | 97.24 | 0.82 | 2ca. | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 2 | 0.10 |
| 2T029019 | 97.24 | 98.00 | 0.76 | 95% 2c, 5% 5b. | 0 | 0 | trc | 1 | 3 | 5 | 2 | 4 | 0.31 |
| 2T029020 | 102.22 | 103.00 | 0.78 | 95% 2c, 5% 5b. | 0 | 0 | 0 | trc | 2 | 8 | 3 | 2 | <0.03 |
| 2T029021 | 103.00 | 104.17 | 1.17 | 55% 2c, 40% 3a, 5% 5ba and 5b. | 0 | 0 | 0 | 0.5 | 2 | 5 | 3 | 3 | <0.03 |
| 2T029022 | 104.17 | 105.34 | 1.17 | 90% 2ca, 10% 5ba, and 5b. | 0 | 0 | 0 | 2 | 6 | 5 | 4 | 8 | 0.10 |
| 2T029023 | 105.34 | 106.22 | 0.88 | 70% 2c, 30% 3c. | 0 | 0 | 0 | 1 | 1 | 8 | 2 | 2 | 0.07 |
| 2T029024 | 106.22 | 107.31 | 1.09 | 60% 5ba and 5b, 40% 3b. | 0 | trc | 0.5 | 0 | 40 | 15 | 5 | 4 | <0.03 |
| 2T029025 | 107.31 | 108.70 | 1.39 | 65% 5b and 5ba, 35% 1a. | 0 | trc | trc | 0.5 | 50 | 10 | 4 | 12 | 0.07 |
| 2T029026 | 108.70 | 109.64 | 0.94 | 40% 1a, 40% 2da, 20% 5b and 5ba. | 0 | 1 | trc | 1 | 16 | 8 | 4 | 10 | 0.20 |
| 2T029027 | 109.64 | 110.65 | 1.01 | 4b. | 0 | 0 | 0 | 0 | 2 | trc | 1 | 9 | <0.03 |
| 2T029028 | 110.65 | 111.69 | 1.04 | 4b. | 0 | 0 | 0 | 0 | 2 | trc | 1 | 8 | <0.03 |
| 2T029029 | 111.69 | 113.00 | 1.31 | 80% 5b and 5ba, 20% 2ca. | 0 | 2 | 0 | 0.5 | 60 | 8 | 10 | >20 | 0.20 |
| 2T029030 | 113.00 | 114.00 | 1.00 | 60% 2c, 40% 5b and 5ba. | 0 | 0.5 | 0 | 0 | 30 | 8 | 2 | 6 | <0.03 |
| 2T029031 | 114.00 | 114.94 | 0.94 | 95% 2ca, 5% 5b and 5ba. | 0 | 0 | 0 | 2 | 4 | 8 | 1 | 5 | 0.07 |
| 2T029032 | 114.94 | 115.60 | 0.66 | 95% 2ca, 5% 5b and 5ba. | 0 | 0 | 0 | 2 | 4 | 8 | 1 | 5 | 0.21 |
| 2T029033 | 115.60 | 116.50 | 0.90 | 95% 2c, 5% 5b. | 0 | 0 | 0 | 0 | 4 | 5 | 1 | 10 | <0.03 |
| 2T029034 | 116.50 | 117.44 | 0.94 | 95% 2c, 5% 5b. | 0 | 0 | 0 | 0 | 4 | 5 | 1 | 10 | <0.03 |
| 2T029035 | 117.44 | 118.26 | 0.82 | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0 | 0.5 | 3 | 10 | 2 | 5 | 0.10 |
| 2T029036 | 118.26 | 119.00 | 0.74 | 2c. | 0 | 0 | 0 | 0.5 | 1 | 6 | 2 | 3 | <0.03 |
| 2T029037 | 119.00 | 119.93 | 0.93 | 90% 2c, 10% 5b and 5ba. | 0 | trc | 0 | 1 | 6 | 8 | 4 | 6 | <0.03 |
| 2T029038 | 119.93 | 121.00 | 1.07 | 95% 2c, 5% 5b and 5ba. | 0 | 0 | 0 | 1 | 3 | 6 | 2 | 4 | 0.14 |
| 2T029039 | 127.41 | 128.41 | 1.00 | 50% 3a, 45% 2c, 5% 5ba and 5b. | 0 | 0.5 | 0 | trc | 3 | 3 | 2 | 2 | <0.03 |

BACK RIVER JOINT VENTURE

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: AYERS

DDH NO: 927029

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|--------------------------|--------|
| 3.05 | 5.49 | 82 | 36 | Rubble, Fe stain | |
| 5.49 | 8.53 | 105 | 59 | | |
| 8.53 | 11.53 | 100 | 82 | | |
| 11.53 | 14.63 | 98 | 82 | | |
| 14.63 | 17.68 | 102 | 77 | | |
| 17.68 | 20.73 | 99 | 66 | | |
| 20.73 | 23.77 | 99 | 92 | | |
| 23.77 | 26.82 | 100 | 85 | | |
| 26.82 | 29.87 | 95 | 66 | | |
| 29.87 | 32.92 | 100 | 82 | | |
| 32.92 | 35.97 | 66 | 46 | mislabel of core tube?? | |
| 35.97 | 39.01 | 62 | 33 | " " " " Ground Core | |
| 39.01 | 42.06 | 85 | 55 | | |
| 42.06 | 45.11 | 105 | 90 | | |
| 45.11 | 48.16 | 100 | 82 | | |
| 48.16 | 51.21 | 102 | 82 | | |
| 51.21 | 54.25 | 100 | 95 | | |
| 54.25 | 57.30 | 92 | 77 | | |
| 57.30 | 60.35 | 103 | 72 | | |
| 60.35 | 63.40 | 100 | 66 | | |
| 63.40 | 66.45 | 90 | 38 | Broken core + rubble bfr | |
| 66.45 | 69.49 | 82 | 21 | " " " " | |
| 69.49 | 71.32 | 70 | 19 | " " " " | |
| 71.32 | 74.37 | 100 | 62 | | |
| 74.37 | 75.59 | 90 | 37 | | |
| 75.59 | 78.03 | 90 | 56 | | |
| 78.03 | 80.47 | 100 | 79 | | |
| 80.47 | 83.52 | 100 | 89 | | |
| 83.52 | 84.73 | 91 | 58 | | |
| 84.73 | 87.48 | 91 | 88 | | |
| 87.48 | 90.53 | 103 | 95 | | |
| 90.53 | 92.88 | 100 | 90 | | |
| 92.88 | 96.93 | 100 | 92 | | |
| 96.93 | 99.97 | 100 | 95 | | |
| 99.97 | 101.19 | 95 | 85 | | |
| 101.19 | 103.02 | 100 | 100 | | |
| 103.02 | 106.07 | 100 | 100 | | |
| 106.07 | 109.12 | 98 | 88 | | |
| 109.12 | 112.17 | 100 | 95 | | |
| 112.17 | 115.21 | 100 | 93 | | |
| 115.21 | 118.26 | 98 | 93 | | |
| 118.26 | 121.31 | 100 | 100 | | |
| 121.31 | 124.36 | 100 | 98 | | |
| 124.36 | 127.41 | 98 | 88 | | |

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: Ayers

DDH NO: 92T029

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|-----------|--------|
| 127.41 | 130.45 | 92 | 86 | | |
| 130.45 | 133.50 | 103 | 75 | | |
| 133.50 | 136.55 | 105 | 98 | | |
| 136.55 | 139.60 | 100 | 86 | | |
| 139.60 | 142.65 | 100 | 100 | | |
| 142.65 | 145.69 | 100 | 88 | | |
| 145.69 | | | | EOH | |
| | | | | 3500-4791 | R2-P16 |
| | | | | 58.71 | P17 |
| | | | | 69.19 | P18 |
| | | | | 80.11 | P19 |
| | | | | 90.72 | P20 |
| | | | | 101.59 | P21 |
| | | | | 112.52 | P22 |
| | | | | 123.68 | P23 |
| | | | | 134.12 | P24 |
| | | | | 145.69 | P25 |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|------------------------|------------------|---------|--------|--|----------|--------------------|---------------------|--------------------------|
| Permit/Claim Location: | BRAU 30 Ayers | | | To test for gold-bearing iron formation at an elevation of approximately 240m above sea level (55m below surface). | | | Date Started: | July 23, 1992 |
| Grid Northing: | 5168.90 | metres | | | | | Date Completed: | July 24, 1992 |
| Grid Easting: | 5154.00 | metres | | | | | Logged by: | P. Pacor |
| Ground Elevation: | 294.43 | metres | | | | | Core Size: | BQ |
| Collar Height: | 0.20 | metres | | | | | Contractor: | J.T. Thomas |
| Hole - Azimuth: | 351 | degrees | | | | | Core Storage: | Boot Lake |
| - Inclination: | -45 | degrees | | | | | Boxes of Core: | 18 |
| - Length: | 95.10 | metres | | | | | Casing Length: | 3.05m BW |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 56.37 | | -45.0 | 1 | GOCC | Gold Occurrence | 00846.4 | 001-020 |
| Rotodip | 86.87 | | -45.0 | 2 | PYRT | Pyrite | | |
| | | | | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
|--------|-------|------|---|------|------|-----|------|------|------|------|--------|----------|-------|
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 18.00 | 20.70 | 2g | 77% 3c, 19% 2ca, and 4% 5a, 5ba and 5b. 2c is well banded (<1-10cm) chert-chlorite-amphibole-magnetite. Quartz-carbonate (iron carbonate) veins up to 10cm wide are sharp in outline and are oriented parallel to banding. Iron carbonate veins up to 1cm wide are ragged in outline and are fracture fill. Pyrite occurs as random fracture fill. Arsenopyrite is present in a 10cm wide quartz vein at the top of the interval. It occurs as 1-3mm wide random to aligned subhedral rhombs. 3c is chloritic and is broken along foliation planes with graphite and slickensides. | | | | | | | | | | |
| 18.00 | 19.00 | 3q | 50% 3c, 40% 2ca, 10% 5a, 5ba and 5b. | 1 | 1 | 0.5 | 0 | 8 | 4 | 2 | 10 | 2T030002 | 2.89 |
| 18.00 | 18.00 | 4f | Contact lost in broken core. | | | | | | | | | | |
| 18.24 | 18.24 | 4c | One occurrence of visible gold consisting of one speck situated in chert adjacent to pyrite. | | | | | | | | | | |
| 18.40 | 18.40 | 4f | Banding to core axis 50 degrees. | | | | | | | | | | |
| 19.00 | 20.00 | 3q | 90% 3c and 10% 2ca. 20cm of lost core. | 0 | 1 | 0 | 0 | 2 | 3 | trc | 3 | 2T030003 | 0.17 |
| 20.00 | 20.70 | 3q | 3c. | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2T030004 | <0.03 |
| 20.70 | 23.25 | 2n | Oxide iron formation (unit 2c) | | | | | | | | | | |
| 20.70 | 23.25 | 2g | 95% 2c, and 5% 3c. 2c is well banded (<1-3cm) chert-magnetite-amphibole-grunerite-chlorite . Grunerite also occurs in a network of <1-3mm wide veins. Pyrite occurs as random blebs and fracture fill. | | | | | | | | | | |
| 20.70 | 21.75 | 3q | 80% 2c, 20% 3c. | 0 | trc | 0 | trc | 2 | 5 | trc | 2 | 2T030005 | <0.03 |
| 20.70 | 20.70 | 4f | Contact at 60 degrees to core axis. | | | | | | | | | | |
| 21.20 | 21.20 | 4f | Banding to core axis 60 degrees. | | | | | | | | | | |
| 21.75 | 23.25 | 3q | 2c. | 0 | 0.5 | 0 | 0 | 3 | 8 | trc | 4 | 2T030006 | <0.03 |

| 92T030 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | Page 6 | | | |
|--------|-------|---|--|------|------|-----|------|------|------|--------|--------|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 40.85 | 42.55 | 2n | Oxide iron formation (unit 2c) | | | | | | | | | | |
| 40.85 | 42.55 | 2g | 90% 2c, 5% 3c, and 5% 5b, 5ba and 5. 2c ranges from moderately well banded (<1-2cm) magnetite-amphibole to sections with fine to medium grained needles and rosettes of grunerite and amphibole. Unit is locally folded and siliceous. Quartz and quartz-carbonate (iron carbonate) up to 8cm wide are irregular in outline and randomly oriented. Pyrite occurs as random blebs and fracture fill. | | | | | | | | | | |
| 40.85 | 41.70 | 3q | 90% 2c, 10% 3c. | 0 | 0.5 | 0 | 0 | 1 | 6 | 1 | 3 | 2T030009 | <0.03 |
| 40.85 | 40.85 | 4f | Contact lost in broken core. | | | | | | | | | | |
| 41.70 | 42.55 | 3q | 90% 2c, 10% 5b, 5ba, 5. | 0 | 0.5 | 0 | 0 | 8 | 6 | 2 | 5 | 2T030010 | 0.14 |
| 42.55 | 49.30 | 2n | Mudstone (unit 3c), greywacke (unit 1a). | | | | | | | | | | |
| 42.55 | 49.30 | 2g | 50% 3c and 50% 1a. Interbedded sequence of mudstone and greywacke with is variably sheared. Bedding contact are contorted to jagged. | | | | | | | | | | |
| 42.55 | 42.55 | 3f | Contact at 60 degrees to core axis. | | | | | | | | | | |
| 45.20 | 45.20 | 3f | Bedding to core axis 60 degrees. | | | | | | | | | | |
| 47.30 | 47.30 | 3f | Bedding to core axis 30 degrees. | | | | | | | | | | |
| 49.30 | 55.00 | 2n | Oxide iron formation (unit 2c), greywacke (unit 1a) | | | | | | | | | | |
| 49.30 | 55.00 | 2g | 76% 2c, 19% 1a, and 5% 5 and 5a. 2c is massive to moderately well banded magnetite-amphibole with minor chert, grunerite and chlorite. Quartz veins up to 5cm wide are ragged in outline, randomly oriented and have chlorite +/- amphibole envelopes. Pyrite occurs as random blebs and fracture fill usually associated with the quartz veins. | | | | | | | | | | |
| 49.30 | 50.60 | 3q | 95% 2c, 5% 5 and 5a. | 0 | 1 | 0 | 0 | 5 | 5 | trc | 3 | 2T030011 | 0.07 |

| 92T030 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 10 | |
|--------|-------|---|------|------|-----|------|------|------|------|-----|----------|---------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 86.90 | 95.10 | 1g | | | | | | | | | | | |
| 86.90 | 86.90 | 2f | | | | | | | | | | | |
| 95.10 | 95.10 | 1c | | | | | | | | | | | |

4a is fine to medium crystalline.
 Contact at 50 degrees to core axis.
 End of Hole.

VISUAL ESTIMATE REPORT

HOLE: 92T030

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|--------------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T030001 | 17.00 | 18.00 | 1.00 | 60% 1a, 40% 3a. | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 5 | <0.03 |
| 2T030002 | 18.00 | 19.00 | 1.00 | 50% 3c, 40% 2ca, 10% 5a, 5ba and 5b. | 1 | 1 | 0.5 | 0 | 8 | 4 | 2 | 10 | 2.89 |
| 2T030003 | 19.00 | 20.00 | 1.00 | 90% 3c and 10% 2ca. | 0 | 1 | 0 | 0 | 2 | 3 | trc | 3 | 0.17 |
| 2T030004 | 20.00 | 20.70 | 0.70 | 3c. | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | <0.03 |
| 2T030005 | 20.70 | 21.75 | 1.05 | 80% 2c, 20% 3c. | 0 | trc | 0 | trc | 2 | 5 | trc | 2 | <0.03 |
| 2T030006 | 21.75 | 23.25 | 1.50 | 2c. | 0 | 0.5 | 0 | 0 | 3 | 8 | trc | 4 | <0.03 |
| 2T030007 | 25.45 | 26.82 | 1.37 | 95% 2c, 5% 5. | 0 | 1 | 0 | 0 | 5 | 6 | trc | 3 | <0.03 |
| 2T030008 | 35.96 | 37.00 | 1.04 | 95% 2c, 5% 5b and 5ba. | 0 | 1 | 0 | 0 | 3 | 5 | 2 | 6 | <0.03 |
| 2T030009 | 40.85 | 41.70 | 0.85 | 90% 2c, 10% 3c. | 0 | 0.5 | 0 | 0 | 1 | 6 | 1 | 3 | <0.03 |
| 2T030010 | 41.70 | 42.55 | 0.85 | 90% 2c, 10% 5b, 5ba, 5. | 0 | 0.5 | 0 | 0 | 8 | 6 | 2 | 5 | 0.14 |
| 2T030011 | 49.30 | 50.60 | 1.30 | 95% 2c, 5% 5 and 5a. | 0 | 1 | 0 | 0 | 5 | 5 | trc | 3 | 0.07 |
| 2T030012 | 67.00 | 68.00 | 1.00 | 3a. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | <0.03 |
| 2T030013 | 68.00 | 69.15 | 1.15 | 60% 5a, 40% 1a. | 0 | 0 | 1.5 | 0 | 50 | 10 | 0 | 6 | 3.04 |
| 2T030014 | 69.15 | 70.00 | 0.85 | 80% 3c, 20% 1a. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <0.03 |
| 2T030015 | 74.55 | 75.50 | 0.95 | 60% 5a and 5b, 30% 1a, 10% 2ca | 0 | 2 | 0 | 0 | 45 | 15 | 1 | 5 | 0.30 |
| 2T030016 | 78.00 | 78.86 | 0.86 | 50% 5a and 5a, 25% 3c, 25% 2c. | 0 | 1 | 0 | 0 | 50 | 4 | trc | 5 | <0.03 |
| 2T030017 | 78.86 | 79.56 | 0.70 | 60% 2dc, 40% 5 and 5a. | 0 | 0.5 | 0 | 0 | 32 | 8 | 0.5 | 8 | 0.21 |
| 2T030018 | 79.56 | 80.25 | 0.69 | 80% 1a, 10% 5, 10% 3c. | 0 | 0 | 0 | 0 | 10 | 10 | 0 | 18 | <0.03 |
| 2T030019 | 80.25 | 81.00 | 0.75 | 65% 2dca, 25% 1a, 10% 5 and 5a. | 0 | 2 | 0 | 0 | 10 | 8 | 1 | 8 | 0.34 |
| 2T030020 | 84.90 | 85.58 | 0.68 | 80% 2ca, 20% 1a. | 0 | 2 | 0 | 0 | 1 | 5 | 0 | 3 | 0.31 |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|----------------------|---------|--------|--|----------|--------------------|-------------------------------|--------------------------|
| Permit/Claim | BRAU 30 | | | To test for gold-bearing iron formation at an elevation of approximately 240m above sea level (53m below surface). | | | Date Started: July 24, 1992 | |
| Location: | Ayers West Extension | | | | | | Date Completed: July 25, 1992 | |
| Grid Northing: | 5168.00 | metres | | | | | Logged by: S. Lear | |
| Grid Easting: | 5220.00 | metres | | | | | Core Size: BQ | |
| Ground Elevation: | 292.52 | metres | | | | | Contractor: J.T. Thomas | |
| Collar Height: | 0.20 | metres | | | | | Core Storage: Boot Lake | |
| Hole - Azimuth: | 351 | degrees | | | | | Boxes of Core: 16 | |
| - Inclination: | -45 | degrees | | Casing Length: 3.05m BW | | | | |
| - Length: | 85.04 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 25.91 | | -45.0 | 1 | GOCC | Gold Occurrence | 00846.4 | 001-004; 008-010 |
| | | | | 2 | PYRT | Pyrite | 00847.4 | 005-007 |
| | | | | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| 92T031 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 5 | |
|--------|-------|---|------|------|-----|------|------|------|------|-----|----------|--------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 69.04 | 77.25 | 1g | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 70.00 | 70.00 | 2f | | | | | | | | | | | |
| 73.50 | 73.50 | 2f | | | | | | | | | | | |
| 74.20 | 75.20 | 2q | | | | | | | | | | | |
| 77.25 | 85.04 | 1n | | | | | | | | | | | |
| 77.25 | 85.04 | 1g | | | | | | | | | | | |
| 77.25 | 77.68 | 2c | | | | | | | | | | | |
| 77.25 | 77.25 | 3f | | | | | | | | | | | |
| 77.68 | 77.93 | 2c | | | | | | | | | | | |
| 77.68 | 77.68 | 3f | | | | | | | | | | | |
| 79.00 | 79.00 | 2f | | | | | | | | | | | |
| 79.71 | 79.76 | 2c | | | | | | | | | | | |

2c with 0.5-1.0m long sections of interbedded 1a/3c.

2c consists of moderate to well-banded (<1-2cm) amphibole-magnetite-grunerite-chert.

Sub-rounded, 2-3mm long, light green grunerite spots obscure banding over lower 50cm.

Thin (1-2mm) quartz veins in 1a/3c intervals. Two 10cm wide quartz-chlorite veins in 2c.

Trace pyrite as stringers and fracture fills.

Banding to core axis 40 degrees.

Banding to core axis 30 degrees.

2c.

Greywacke (unit 1a), mudstone (unit 3c)

70% 1a, 26% 3c, and 4% 8.

Interbedded 1a/3c with thin gabbroic dykes as noted below.

quartz veins 0.2-1cm wide.

Contorted quartz veins, 0.2-1.0cm wide in weakly foliated mudstone.

Contact at 55 degrees to core axis.

100% 8.

Gabbroic dyke. White, 1mm long feldspar phenocrysts in black, aphanitic groundmass.

0.5cm wide chill margins at upper and lower contacts.

Trace pyrite coating fractures.

Contact between 3c/8 at 50 degrees to core axis.

Bedding to core axis 40 degrees.

Gabbroic dyke. Contacts at 50 degrees to core axis.

| 92T031 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 6 | |
|--------|-------|---|---|------|-----|------|------|------|------|-----|----------|--------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | GOCC | PVRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 80.00 | 80.00 | 2f | | | | | | | | | | | |
| 85.04 | 85.04 | 1c | | | | | | | | | | | |
| | | | Graded bedding fines uphole. Bedding to core axis 50 degrees. | | | | | | | | | | |
| | | | End of Hole. | | | | | | | | | | |

VISUAL ESTIMATE REPORT

HOLE: 92T031

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|-----------------|------|------|-----|------|------|------|------|-----|--------|
| 2T031001 | 46.62 | 47.22 | 0.60 | 1b, 3c. | 0 | trc | 0 | 0 | 1 | 0 | 0 | 2 | 0.34 |
| 2T031002 | 47.22 | 48.90 | 1.68 | 2c. | 0 | trc | trc | trc | 2 | 5 | 0 | 10 | 0.10 |
| 2T031003 | 48.90 | 50.00 | 1.10 | 2c. | 0 | 1 | 0 | trc | 0 | 2 | 0 | 0 | <0.03 |
| 2T031004 | 50.00 | 51.00 | 1.00 | 2c. | 0 | 1 | 0 | trc | 0 | 2 | 0 | 0 | 0.72 |
| 2T031005 | 51.00 | 52.00 | 1.00 | 60% 2d, 40% 2c. | 0 | 1 | 0 | 0 | 0 | 5 | 0 | 0 | 0.96 |
| 2T031006 | 52.00 | 53.00 | 1.00 | 2da | 0 | 10 | 5 | 0 | 0 | 10 | 0 | 0 | 21.19 |
| 2T031007 | 53.00 | 54.25 | 1.25 | 2da. | 0 | 10 | 8 | 0 | 0.5 | 15 | 0 | 1 | 19.41 |
| 2T031008 | 54.25 | 55.90 | 1.65 | 95% 2c, 5% 5. | 0 | 1.5 | 0 | trc | 5 | 2 | 0 | 4 | 0.89 |
| 2T031009 | 55.90 | 56.50 | 0.60 | 1a. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <0.03 |
| 2T031010 | 74.20 | 75.20 | 1.00 | 2c. | 0 | 0.5 | 0 | 0 | 1 | 0 | 0 | 1 | 0.07 |

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: AYERS EAST

DDH NO: 92T031

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|-------------|--------|
| 0 | 3.05 | | | CASING | |
| 3.05 | 5.49 | 93 | 58 | Broken core | |
| 5.49 | 8.53 | 97 | 60 | | |
| 8.53 | 11.58 | 93 | 69 | | |
| 11.58 | 14.63 | 100 | 92 | | |
| 14.63 | 17.68 | 97 | 52 | | |
| 17.68 | 20.73 | 94 | 77 | | |
| 20.73 | 23.77 | 103 | 87 | | |
| 23.77 | 26.82 | 96 | 73 | | |
| 26.82 | 29.87 | 100 | 76 | | |
| 29.87 | 32.92 | 99 | 77 | | |
| 32.92 | 35.97 | 98 | 60 | | |
| 35.97 | 39.01 | 97 | 76 | | |
| 39.01 | 42.06 | 99 | 50 | | |
| 42.06 | 45.11 | 104 | 49 | | |
| 45.11 | 47.55 | 93 | 58 | | |
| 47.55 | 50.60 | 100 | 62 | | |
| 50.60 | 51.21 | 110 | 105 | | |
| 51.21 | 54.25 | 96 | 57 | | |
| 54.25 | 57.30 | 100 | 67 | | |
| 57.30 | 60.04 | 97 | 68 | | |
| 60.04 | 63.09 | 86 | 53 | | |
| 63.09 | 66.14 | 95 | 59 | 39.89-50.60 | R3-P8 |
| 66.14 | 69.19 | 100 | 83 | 61.12 | P9 |
| 69.19 | 71.63 | 70 | 49 | 72.10 | P11 |
| 71.63 | 74.68 | 97 | 80 | 83.00 | P10 |
| 74.68 | 75.59 | 89 | 77 | | |
| 75.59 | 78.64 | 100 | 62 | | |
| 78.64 | 81.69 | 100 | 76 | | |
| 81.69 | 83.82 | 100 | 68 | | |
| 83.82 | 85.04 | 80 | 50 | | |

| LOCATION INFORMATION | | | | PURPOSE | | | | GENERAL INFORMATION | |
|----------------------|-------------|---------|--------|--|----------|--------------------|--------------|-------------------------------|--|
| Permit/Claim | BRAU 30 | | | To test for gold-bearing iron formation at an elevation of approximately 260m above sea level (44m below surface). | | | | Date Started: July 25, 1992 | |
| Location: | Poison Pond | | | | | | | Date Completed: July 25, 1992 | |
| Grid Northing: | 5256.70 | metres | | | | | | Logged by: S. Lear/P. Pacor | |
| Grid Easting: | 5539.80 | metres | | | | | | Core Size: BQ | |
| Ground Elevation: | 283.20 | metres | | | | | | Contractor: J.T. Thomas | |
| Collar Height: | 0.50 | metres | | | | | | Core Storage: Boot Lake | |
| Hole - Azimuth: | 351 | degrees | | | | | | Boxes of Core: 12 | |
| - Inclination: | -45 | degrees | | Casing Length: 6.10m BW | | | | | |
| - Length: | 69.49 | metres | | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED | |
| Rotodip | 25.91 | | -44.0 | 1 | GOCC | Gold Occurrence | 00847.4 | 011-012 | |
| Rotodip | 65.53 | | -46.0 | 2 | PYRT | Pyrite | 00846.4 | 001-010; 013-015 | |
| | | | | 3 | ASP | Arsenopyrite | | | |
| | | | | 4 | PYRH | Pyrrhotite | | | |
| | | | | 5 | VQTZ | Vein Quartz | | | |
| | | | | 6 | CLRT | Chlorite | | | |
| | | | | 7 | CBNT | Carbonate | | | |
| | | | | 8 | VIN | Vein Intensity | | | |
| | | | | 9 | SAMPLE # | | | | |
| | | | | 10 | g/t | gold content by FA | | | |
| REMARKS | | | | | | | | | |
| | | | | | | | | | |

| 921032 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 2 | | | | | | | | | | | | | |
|--------|-------|---|---|------|-----|------|------|------|------|-----|----------|--------|-----|----|----|----|----|----|----|----|----|----|----|----|--|
| METRES | | DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | |
| FROM | TO | CODE | 1c | 1c | 1n | 2n | 2g | 3c | 3c | 3c | 4f | 3c | 3c | 4f | 4f | 3c | 3c | 4f | 2n | 2g | 3f | 3f | 2n | 2g | |
| 0.00 | 6.10 | 1c | Casing to core. | | | | | | | | | | | | | | | | | | | | | | |
| 6.10 | 6.30 | 1c | 20cm of gabbro . Possible boulder. | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 39.65 | 1n | Oxide iron formation (unit 2c)/greYWacke (unit 1a)/mudstone (unit 3c)/intermediate dyke (unit 4b)/quartz vein (unit 5)/carbonate-bearing quartz vein (unit 5b). | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 13.10 | 2n | Greywacke (unit 1a), oxide iron formation (unit 2c) | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 13.10 | 2g | 51% 1a, 44% 2c and 5% 3c. | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 6.30 | 3c | 1a is massive to weakly foliated. | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 6.65 | 3c | 3c. | | | | | | | | | | | | | | | | | | | | | | |
| 6.65 | 8.75 | 3c | 95% 2c, 5% 5. | | | | | | | | | | | | | | | | | | | | | | |
| 6.65 | 7.50 | 4f | Broken core. | | | | | | | | | | | | | | | | | | | | | | |
| 8.75 | 12.25 | 3c | 1a. | | | | | | | | | | | | | | | | | | | | | | |
| 12.25 | 13.10 | 3c | 2c. | | | | | | | | | | | | | | | | | | | | | | |
| 12.80 | 12.80 | 4f | Banding to core axis 50 degrees. | | | | | | | | | | | | | | | | | | | | | | |
| 13.10 | 16.83 | 2n | Greywacke (unit 1a) | | | | | | | | | | | | | | | | | | | | | | |
| 13.10 | 16.83 | 2g | 95% 1a and 5% 3c. | | | | | | | | | | | | | | | | | | | | | | |
| 13.10 | 13.10 | 3f | 1a is massive with several 2-10cm wide massive 3c interbeds at the base of the interval. | | | | | | | | | | | | | | | | | | | | | | |
| 13.10 | 13.10 | 3f | Contact obscured by chlorite. | | | | | | | | | | | | | | | | | | | | | | |
| 16.00 | 16.00 | 3f | Bedding to core axis 70 degrees. | | | | | | | | | | | | | | | | | | | | | | |
| 16.83 | 21.25 | 2n | Oxide iron formation (unit 2c) | | | | | | | | | | | | | | | | | | | | | | |
| 16.83 | 21.25 | 2g | 90% 2c, 7% 3c and 3% 5 and 5b. | | | | | | | | | | | | | | | | | | | | | | |
| | | GOCC | | PYRT | ASP | PYRH | VQ1Z | CLRT | CBNT | VIN | SAMPLE # | | g/t | | | | | | | | | | | | |
| | | ASSAYS | | | | | | | | | | | | | | | | | | | | | | | |

BACK RIVER JOINT VENTURE - GEOLOGICAL LOG

| 92T032 | | ASSAYS | | | | | | | | | |
|--------|-------|---|------|-----|------|------|------|------|-----|----------|-----|
| METRES | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| FROM | TO | DESCRIPTION | | | | | | | | | |
| 16.83 | 21.25 | 2c is primarily well banded (<1-5cm) chert-magnetite-grunerite-amphibole. Chert and grunerite content, however, is highly variable. Quartz and quartz-carbonate (iron carbonate) veins up to 3cm wide are irregular in outline and randomly oriented. Quartz veins contain chlorite. Trace to 0.5% pyrite occurs as random blebs and as fracture fill. 3c is massive and is cut by 1-3mm wide quartz veins. Contact at 70 degrees to core axis. Oxide iron formation (unit 2c), mudstone (unit 3c) 55% 2c, and 45% 3c. 2c ranges from well banded (<1-3cm) chert-magnetite-grunerite (in <1-3mm wide veins) to 5-10cm sections of fine to medium grained amphibole-chlorite. Trace to 0.5% pyrite is present in the 2c as fracture fill and as random blebs. 3c is black, massive and contains possible tuff units. 90% 3c, 10% 2c. Contact at 60 degrees to core axis. 2c. Banding to core axis 55 degrees. 3c. Possible tuff unit. Bedding to core axis 45 degrees. Possible tuff unit. Bedding to core axis 55 degrees. Possible tuff unit. Bedding to core axis 65 degrees. 2c. Intermediate dyke (unit 4b) 98% 4b and 2% 5 | | | | | | | | | |
| 16.83 | 16.83 | 3f | | | | | | | | | |
| 21.25 | 24.35 | 2n | | | | | | | | | |
| 21.25 | 24.35 | 2g | | | | | | | | | |
| 21.25 | 22.20 | 3c | | | | | | | | | |
| 21.25 | 21.25 | 4f | | | | | | | | | |
| 22.20 | 23.15 | 3c | | | | | | | | | |
| 22.50 | 22.50 | 4f | | | | | | | | | |
| 23.15 | 23.75 | 3c | | | | | | | | | |
| 23.26 | 23.27 | 4c | | | | | | | | | |
| 23.53 | 23.54 | 4c | | | | | | | | | |
| 23.61 | 23.63 | 4c | | | | | | | | | |
| 23.75 | 24.35 | 3c | | | | | | | | | |
| 24.35 | 25.33 | 2n | | | | | | | | | |
| 24.35 | 25.33 | 2g | | | | | | | | | |

| 92T032 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 5 | | |
|--------|-------|---|--|------|------|-----|------|------|------|------|-----|----------|-------|--|
| METRES | | CODE | DESCRIPTION | | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 30.38 | 39.65 | 2g | sections of 2c and as fracture fill. | | | | | | | | | | | |
| 31.90 | 31.90 | 3f | Banding to core axis 60 degrees. | | | | | | | | | | | |
| 32.06 | 32.06 | 3f | Contact of 2c/3c at 60 degrees to core axis. | | | | | | | | | | | |
| 32.66 | 32.70 | 3c | Possible tuff unit. Bedding to core axis 75 degrees. siliceous greywacke (unit 1b) | | | | | | | | | | | |
| 33.09 | 33.12 | 3c | Possible tuff unit. Bedding to core axis 50 degrees. | | | | | | | | | | | |
| 33.40 | 34.44 | 3q | 2c. Massive chert-chlorite-amphibole over upper 0.70m. | 0 | 1 | 0 | 0.5 | trc | 10 | 0.5 | 5 | 2T032001 | <0.03 | |
| 35.45 | 35.45 | 3f | Banding to core axis 70 degrees, cut by quartz-carbonate (calcite) veins which are oriented at 0-10 degrees to core axis. | | | | | | | | | | | |
| 37.59 | 37.61 | 3f | Possible tuff unit, bedding to core axis 65 degrees. Thin quartz veins parallel to tuff contacts. | | | | | | | | | | | |
| 38.00 | 39.08 | 3q | 60% 3c, 38% 2c, 2% 5. | 0 | 0.5 | trc | 0.5 | 2 | 2 | trc | >20 | 2T032002 | <0.03 | |
| 38.22 | 38.25 | 4c | Possible tuff unit, bedding to core axis 25 degrees. | | | | | | | | | | | |
| 39.65 | 53.35 | 1n | Oxide iron formation (unit 2c), sulphide-bearing quartz vein (unit 5a) | | | | | | | | | | | |
| 39.65 | 53.35 | 1g | 88% 2c, and 12% 5a. Well banded amphibole-chert (<1-3cm) -magnetite 2c. Chlorite alteration and irregular quartz-calcite veins associated with sulphidized zones. Pyrrhotite and pyrite as fine stringers. Arsenopyrite occurs as 1-3mm wide subhedral to euhedral rhombs in a 1.4m long quartz-chlorite alteration zone (unit 5a). Also trace arsenopyrite with pyrrhotite/pyrite stringers. | | | | | | | | | | | |
| 39.65 | 39.65 | 2f | Contact at 50 degrees to core axis. | | | | | | | | | | | |
| 41.70 | 41.70 | 2f | Banding to core axis 65 degrees. | | | | | | | | | | | |
| 42.20 | 43.10 | 2q | 2c. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2T032003 | <0.03 | |
| 43.10 | 44.34 | 2q | 2c. | 0 | 0 | trc | trc | 0 | 1 | 2 | 0 | 2T032004 | 0.79 | |
| 44.34 | 45.30 | 2q | 2c. | 0 | 0 | trc | trc | 0 | 3 | 1 | 0 | 2T032005 | 0.79 | |
| 45.30 | 46.30 | 2q | 2c. | 0 | 0 | 0 | trc | 0 | 1 | 2 | 0 | 2T032006 | <0.03 | |
| 46.30 | 47.78 | 2q | 2c. | 0 | 0 | 0 | trc | trc | 8 | 2 | 4 | 2T032007 | <0.03 | |
| 47.78 | 49.00 | 2q | 2c. | 0 | 0 | 0 | trc | trc | 2 | trc | 2 | 2T032008 | 0.07 | |

VISUAL ESTIMATE REPORT

HOLE: 92T032

September 23, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|-----------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T032001 | 33.40 | 34.44 | 1.04 | 2c. | 0 | 1 | 0 | 0.5 | trc | 10 | 0.5 | 5 | <0.03 |
| 2T032002 | 38.00 | 39.08 | 1.08 | 60% 3c, 38% 2c, 2% 5. | 0 | 0.5 | trc | 0.5 | 2 | 2 | trc | >20 | <0.03 |
| 2T032003 | 42.20 | 43.10 | 0.90 | 2c. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <0.03 |
| 2T032004 | 43.10 | 44.34 | 1.24 | 2c. | 0 | 0 | trc | trc | 0 | 1 | 2 | 0 | 0.79 |
| 2T032005 | 44.34 | 45.30 | 0.96 | 2c. | 0 | 0 | trc | trc | 0 | 3 | 1 | 0 | 0.79 |
| 2T032006 | 45.30 | 46.30 | 1.00 | 2c. | 0 | 0 | 0 | trc | 0 | 1 | 2 | 0 | <0.03 |
| 2T032007 | 46.30 | 47.78 | 1.48 | 2c. | 0 | 0 | 0 | trc | trc | 8 | 2 | 4 | <0.03 |
| 2T032008 | 47.78 | 49.00 | 1.22 | 2c. | 0 | 0 | 0 | trc | trc | 2 | trc | 2 | 0.07 |
| 2T032009 | 49.00 | 49.60 | 0.60 | 2c. | 0 | 0 | trc | trc | 0 | 1 | 0.5 | 0 | 0.37 |
| 2T032010 | 49.60 | 50.30 | 0.70 | 2c. | 0 | 0 | 0 | trc | 0 | 3 | 1 | 0 | 0.10 |
| 2T032011 | 50.30 | 51.00 | 0.70 | 5a. | 0 | 0.5 | 3 | 0 | 80 | 15 | trc | 1 | 2.39 |
| 2T032012 | 51.00 | 52.00 | 1.00 | 75% 2c/2ca, 25% 5a | 1 | 0 | 0.5 | 1 | 26 | 1 | trc | 3 | 2.32 |
| 2T032013 | 52.00 | 52.20 | 0.20 | 2c. | 0 | 0 | 0 | trc | 0 | 1 | 2 | 0 | 0.14 |
| 2T032014 | 52.20 | 53.35 | 1.15 | 2c. | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0.07 |
| 2T032015 | 53.35 | 53.95 | 0.60 | 75% 1a, 25% 2c. | 0 | trc | 0 | trc | 1 | 0 | 0 | 8 | <0.03 |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|----------------|---------|--------|--|----------|--------------------|-------------------------------|--------------------------|
| Permit/Claim | BRAU 30 | | | To test for gold-bearing iron formation at an elevation of approximately 250m above sea level (35m below surface). | | | Date Started: July 26, 1992 | |
| Location: | Poison Pond | | | | | | Date Completed: July 26, 1992 | |
| Grid Northing: | 5268.40 metres | | | | | | Logged by: S. Lear | |
| Grid Easting: | 5600.00 metres | | | | | | Core Size: BQ | |
| Ground Elevation: | 284.30 metres | | | | | | Contractor: J.T. Thomas | |
| Collar Height: | 0.20 metres | | | | | | Core Storage: Boot Lake | |
| Hole - Azimuth: | 351 degrees | | | | | | Boxes of Core: 12 | |
| - Inclination: | -45 degrees | | | Casing Length: 3.01 BW | | | | |
| - Length: | 68.88 metres | | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 25.91 | | -45.0 | 1 | GOCC | Gold Occurrence | 00857.4 | 008-009 |
| Rotodip | 56.39 | | -44.0 | 2 | PYRT | Pyrite | 00859.4 | 001-007; 010-017 |
| | | | | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| 92T033 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | Page 4 | | | |
|--------|-------|---|--|------|------|-----|------|------|------|--------|--------|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 24.30 | 26.79 | 3c | 5% quartz-chlorite veins (2-5mm) at 40 degrees to core axis. | | | | | | | | | | |
| 24.30 | 24.30 | 4f | Banding to core axis 60 degrees. | | | | | | | | | | |
| 26.79 | 27.28 | 3c | 2c, well banded same as 23.77m to 24.95m. Trace pyrite on fractures. | | | | | | | | | | |
| 26.94 | 27.78 | 3q | 90% 1a, 10% 2c. | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 2T033002 | <0.03 |
| 27.00 | 27.00 | 4f | Banding to core axis 65 degrees. | | | | | | | | | | |
| 27.28 | 27.78 | 3c | 1a, minor quartz-chlorite veins. | | | | | | | | | | |
| 27.78 | 28.91 | 3q | 70% 2d, 30% 2c. | 0 | 0.5 | trc | trc | trc | 10 | trc | 2 | 2T033003 | 0.10 |
| 28.91 | 29.86 | 3q | 53% 2d, 30% 2c, 17% 1a. | 0 | trc | 0 | 0.5 | 0.5 | 5 | trc | 5 | 2T033004 | <0.03 |
| 28.91 | 29.07 | 4c | 1a. | | | | | | | | | | |
| 29.07 | 29.07 | 4f | Contact at 60 degrees. | | | | | | | | | | |
| 29.86 | 30.48 | 3q | 63% 1b, 37% 2d | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 10 | 2T033005 | <0.03 |
| 30.48 | 31.46 | 3q | 1a. | 0 | 0 | 0 | 0 | 5 | 2 | 0 | >20 | 2T033006 | <0.03 |
| 31.46 | 32.45 | 3q | 90% 1a, 10% 1b. | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 8 | 2T033007 | <0.03 |
| 32.45 | 33.26 | 3q | 60% 2c, 40% 2d | 0 | 1 | trc | 0.5 | trc | 7 | trc | 3 | 2T033008 | 0.07 |
| 32.70 | 32.70 | 4f | Banding to core axis 70 degrees. | | | | | | | | | | |
| 33.26 | 33.87 | 3q | 70% 2c, 30% 5a. | 0 | trc | 1 | 0.5 | 30 | 10 | 0 | 2 | 2T033009 | 0.27 |
| 33.60 | 33.78 | 4c | Quartz-chlorite vein (unit 5a) with 3% arsenopyrite as subhedral rhombs. Chlorite envelopes to arsenopyrite. Irregular contacts. | | | | | | | | | | |
| 33.87 | 34.47 | 3q | 70% 2c, 30% 1a. | 0 | 0.5 | 0 | 1 | 1 | 2 | 0 | 3 | 2T033010 | <0.03 |
| 33.87 | 34.07 | 4c | 1a. | | | | | | | | | | |
| 34.20 | 34.20 | 4f | Banding to core axis 60 degrees. | | | | | | | | | | |
| 34.47 | 35.47 | 3q | 85% 2c, 15% 3b. | 0 | 0.5 | 0 | 1 | 0 | 8 | 0 | 0 | 2T033011 | <0.03 |
| 35.47 | 36.07 | 3q | 75% 3c, 25% 2c. | 0 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | 2T033012 | <0.03 |
| 36.07 | 37.30 | 3q | 70% 3c, 30% 2c | 0 | 0 | 0 | 0.5 | 2 | trc | 4 | 12 | 2T033013 | <0.03 |

| 92T033 | | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 5 | | | |
|--------|-------|------|---|------|------|-----|------|------|------|--------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | ASSAYS | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 36.80 | 36.80 | 4f | Quartz-chlorite veins at 60 degrees to core axis. | | | | | | | | | | |
| 37.30 | 38.45 | 3q | 57% 2c, 43% 3c. | 0 | 0.5 | 0.5 | 0.5 | 3 | 5 | 0 | 14 | 2T033014 | 0.96 |
| 38.45 | 39.83 | 2q | 58% 2c, 27% 3c, 15% 4a | 0 | 0 | 0 | 0.5 | 1 | 10 | 0 | 8 | 2T033015 | <0.03 |
| 38.81 | 39.01 | 3f | Broken core; slickensides, chlorite, quartz-iron carbonate veins. | | | | | | | | | | |
| 39.48 | 40.67 | 2n | Felsic dyke (unit 4a) | | | | | | | | | | |
| 39.48 | 40.67 | 2g | 76% 4a, 12% 2c, and 12% 3c. 4a consists of 20%, <1-1mm long white feldspar phenocrysts in an aphanitic, grey-brown matrix. Unit consists of two dykes separated by 0.25m of 3c and 2c. Pyrrhotite as stringers in 2c, locally up to 1.5%. Arsenopyrite as trace subhedral rhombs in 2c. Sulphide content is highest near top and bottom contacts of 2c. Quartz veins, 1-2mm in 3c oriented at 65 degrees to core axis. | | | | | | | | | | |
| 39.48 | 39.48 | 3f | Contact at 65 degrees to core axis. | | | | | | | | | | |
| 39.75 | 39.86 | 3c | 3c. | | | | | | | | | | |
| 39.83 | 40.67 | 3q | 70% 4a, 30% 2c. | 0 | 0 | trc | 0.5 | 0 | 0 | 0 | 0 | 2T033016 | 0.62 |
| 39.86 | 40.00 | 3c | 2c. | | | | | | | | | | |
| 40.53 | 40.67 | 3c | 2c, trace chalcopyrite, trace pyrrhotite. | | | | | | | | | | |
| 40.67 | 61.95 | 2n | Oxide iron formation (unit 2c), greywacke (unit 1a) | | | | | | | | | | |
| 40.67 | 61.95 | 2g | 60% 2c, 38% 1a, and 2% 3c. Interbedded 2c and 1a, minor 3c. 2c is primarily well banded amphibole-chert (<1-2cm) - grunerite-magnetite-chlorite. One section of massive, fine grained black magnetite. Iron formation intervals noted below. 1a is light-grey and massive. Quartz and quartz-carbonate vein at 2c/1a contacts. | | | | | | | | | | |
| 40.67 | 41.27 | 3q | Trace pyrrhotite +/- pyrite stringers in 2c. Trace arsenopyrite in quartz-chlorite vein. 60% 2c, 40% 3c. | 0 | trc | 0 | trc | 3 | 0 | 0 | >20 | 2T033017 | 0.24 |

VISUAL ESTIMATE REPORT

HOLE: 92T033

September 23, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|-------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T033001 | 14.63 | 15.43 | 0.80 | 2d. | 0 | 1.5 | 0 | 0 | trc | 20 | trc | 3 | 0.17 |
| 2T033002 | 26.94 | 27.78 | 0.84 | 90% 1a, 10% 2c. | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | <0.03 |
| 2T033003 | 27.78 | 28.91 | 1.13 | 70% 2d, 30% 2c. | 0 | 0.5 | trc | trc | trc | 10 | trc | 2 | 0.10 |
| 2T033004 | 28.91 | 29.86 | 0.95 | 53% 2d, 30% 2c, 17% 1a. | 0 | trc | 0 | 0.5 | 0.5 | 5 | trc | 5 | <0.03 |
| 2T033005 | 29.86 | 30.48 | 0.62 | 63% 1b, 37% 2d | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 10 | <0.03 |
| 2T033006 | 30.48 | 31.46 | 0.98 | 1a. | 0 | 0 | 0 | 0 | 5 | 2 | 0 | >20 | <0.03 |
| 2T033007 | 31.46 | 32.45 | 0.99 | 90% 1a, 10% 1b. | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 8 | <0.03 |
| 2T033008 | 32.45 | 33.26 | 0.81 | 60% 2c, 40% 2d | 0 | 1 | trc | 0.5 | trc | 7 | trc | 3 | 0.07 |
| 2T033009 | 33.26 | 33.87 | 0.61 | 70% 2c, 30% 5a. | 0 | trc | 1 | 0.5 | 30 | 10 | 0 | 2 | 0.27 |
| 2T033010 | 33.87 | 34.47 | 0.60 | 70% 2c, 30% 1a. | 0 | 0.5 | 0 | 1 | 1 | 2 | 0 | 3 | <0.03 |
| 2T033011 | 34.47 | 35.47 | 1.00 | 85% 2c, 15% 3b. | 0 | 0.5 | 0 | 1 | 0 | 8 | 0 | 0 | <0.03 |
| 2T033012 | 35.47 | 36.07 | 0.60 | 75% 3c, 25% 2c. | 0 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | <0.03 |
| 2T033013 | 36.07 | 37.30 | 1.23 | 70% 3c, 30% 2c | 0 | 0 | 0 | 0.5 | 2 | trc | 4 | 12 | <0.03 |
| 2T033014 | 37.30 | 38.45 | 1.15 | 57% 2c, 43% 3c. | 0 | 0.5 | 0.5 | 0.5 | 3 | 5 | 0 | 14 | 0.96 |
| 2T033015 | 38.45 | 39.83 | 1.38 | 58% 2c, 27% 3c, 15% 4a | 0 | 0 | 0 | 0.5 | 1 | 10 | 0 | 8 | <0.03 |
| 2T033016 | 39.83 | 40.67 | 0.84 | 70% 4a, 30% 2c. | 0 | 0 | trc | 0.5 | 0 | 0 | 0 | 0 | 0.62 |
| 2T033017 | 40.67 | 41.27 | 0.60 | 60% 2c, 40% 3c. | 0 | trc | 0 | trc | 3 | 0 | 0 | >20 | 0.24 |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|-------------|---------|--------|--|----------|--------------------|-------------------------------|--------------------------|
| Permit/Claim | BRAU 30 | | | To test for gold-bearing iron formation at an elevation of approximately 240m above sea level (23m below surface). | | | Date Started: July 27, 1992 | |
| Location: | Aiomon West | | | | | | Date Completed: July 27, 1992 | |
| Grid Northing: | 5146.40 | metres | | | | | Logged by: S. Lear | |
| Grid Easting: | 5540.10 | metres | | | | | Core Size: BQ | |
| Ground Elevation: | 283.67 | metres | | | | | Contractor: J.T. Thomas | |
| Collar Height: | 0.45 | metres | | | | | Core Storage: Boot Lake | |
| Hole - Azimuth: | 351 | degrees | | | | | Boxes of Core: 9 | |
| - Inclination: | -45 | degrees | | Casing Length: 4.57m BW | | | | |
| - Length: | 52.43 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| | | | | 1 | GOCC | Gold Occurrence | 00859.4 | 001-002; 008 |
| | | | | 2 | PYRT | Pyrite | 00857.4 | 003-007 |
| | | | | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| 92T034 | | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | Page 2 | | | |
|--------|-------|------|--|------|------|-----|------|------|------|--------|-----|----------|-------|
| METRES | | CODE | DESCRIPTION | | | | | | | ASSAYS | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 0.00 | 4.57 | 1c | Casing to core. | | | | | | | | | | |
| 4.57 | 27.24 | 1n | Greywacke (unit 1a), mudstone (unit 3c) | | | | | | | | | | |
| 4.57 | 27.24 | 1g | 80% 1a, 18% 3c, and 2% 2da Interbedded 1a/3c. One 0.4m long section of 2da. Quartz veins 0.1-1cm wide, 2%. One 1.0cm pink carbonate vein at 16.83m. Weak chlorite alteration with quartz veins and on fractures. Trace pyrite as stringers and fracture coatings. Percentage of pyrite increases in broken sections. Minor pyrrhotite noted in upper 9 metres. | | | | | | | | | | |
| 5.48 | 6.81 | 2f | Moderate broken core, moderate quartz-chlorite-pyrite alteration. Possible fault zone. | | | | | | | | | | |
| 9.50 | 9.50 | 2f | Bedding to core axis 65 degrees. | | | | | | | | | | |
| 10.07 | 12.40 | 2f | Moderate to highly broken core. Chlorite-pyrite and iron oxide staining on fracture surfaces. Possible fault zone. | | | | | | | | | | |
| 16.83 | 16.83 | 2f | 1cm long pink carbonate-quartz vein at 60 degrees to core axis. | | | | | | | | | | |
| 23.84 | 23.84 | 2f | Bedding to core axis 60 degrees. | | | | | | | | | | |
| 24.26 | 24.66 | 2c | 2da. Chert-chlorite with up to 5% pyrite, trace pyrrhotite. Possible altered 1a? | | | | | | | | | | |
| 26.64 | 27.24 | 2q | 1a. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2T034001 | <0.03 |
| 27.24 | 32.44 | 1n | Oxide iron formation (unit 2c), sulphide-bearing oxide iron formation (unit 2ca) | | | | | | | | | | |
| 27.24 | 32.44 | 1g | 84% 2c, 11% 2ca, and 5% 3c. 2c is amphibole-chert (<1-1.5cm bands) - magnetite-grunerite. Primarily well banded although bands are partially obscured in chlorite-quartz-sulphide sections. Minor quartz-carbonate veins discontinuous with irregular outlines. Vuggy iron-carbonate at 29.82m adjacent to arsenopyrite zone. Pyrite and pyrrhotite as fine stringers and on fractures. | | | | | | | | | | |
| 27.24 | 28.88 | 2q | Arsenopyrite occurs as subhedral to euhedral rhombs disseminated and as trains sub-parallel to banding. 100% 2c. | 0 | trc | 0 | trc | 0.5 | 2 | 1 | 3 | 2T034002 | 0.31 |

| 92T034 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 4 | |
|--------|-------|---|------|------|-----|------|------|------|------|-----|----------|--------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 50.20 | 50.20 | 2f | | | | | | | | | | | |
| 50.87 | 51.30 | 2c | | | | | | | | | | | |
| 52.43 | 52.43 | 1c | | | | | | | | | | | |

Bedding to core axis 65 degrees.

10% quartz-chlorite veins/flooding (1-5cm wide) in medium grained 1a.

End of Hole.

VISUAL ESTIMATE REPORT

HOLE: 92T034

September 23, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T034001 | 26.64 | 27.24 | 0.60 | 1a. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | <0.03 |
| 2T034002 | 27.24 | 28.88 | 1.64 | 100% 2c. | 0 | trc | 0 | trc | 0.5 | 2 | 1 | 3 | 0.31 |
| 2T034003 | 28.88 | 29.50 | 0.62 | 100% 2c. | 0 | 1 | 0 | trc | trc | 3 | 1 | 3 | 1.54 |
| 2T034004 | 29.50 | 30.50 | 1.00 | 57% 2c, 43% 2ca. | 0 | 1 | 0.5 | trc | 0 | 10 | 0 | 0 | 10.59 |
| 2T034005 | 30.50 | 31.21 | 0.71 | 77% 2c, 23% 2ca | 1 | 0.5 | 0.5 | trc | trc | 15 | trc | 1 | 12.96 |
| 2T034006 | 31.21 | 31.81 | 0.60 | 60% 3c, 40% 2c. | 0 | trc | 0 | trc | trc | 2 | 2 | 4 | 0.07 |
| 2T034007 | 31.81 | 32.44 | 0.63 | 100% 2c. | 0 | 0.5 | trc | trc | trc | 10 | 3 | 6 | 0.24 |
| 2T034008 | 32.44 | 33.33 | 0.89 | 3c. | 0 | trc | 0 | 0 | 2 | 3 | 0 | 5 | <0.03 |

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: AYERS WEST

DDH NO: 92T034

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|----------|-------------|
| 0 | 4.57 | | | | |
| 4.57 | 5.49 | 87 | 30 | | |
| 5.49 | 8.53 | 92 | 23 | | |
| 8.53 | 10.67 | 93 | 31 | | |
| 10.67 | 12.80 | 89 | 14 | | |
| 12.80 | 14.63 | 76 | 46 | | |
| 14.63 | 17.68 | 103 | 71 | | |
| 17.68 | 20.73 | 100 | 92 | | |
| 20.73 | 23.77 | 82 | 47 | | Row 3 - P22 |
| 23.77 | 26.82 | 104 | 71 | | P22 |
| 26.82 | 29.87 | 96 | 73 | | P22 / P24 |
| 29.87 | 32.92 | 95 | 49 | | P22 / P24 |
| 32.92 | 35.97 | 97 | 36 | | P23 |
| 35.97 | 38.40 | 91 | 33 | | P23 |
| 38.40 | 39.01 | 108 | 20 | | P23 |
| 39.01 | 42.06 | 98 | 48 | | P23 + |
| 42.06 | 45.11 | 98 | 50 | | |
| 45.11 | 48.16 | 100 | 73 | | |
| 48.16 | 51.21 | 99 | 62 | | |
| 51.21 | 52.43 | 88 | 80 | | |
| | 52.43 | | | E.O.H | |

P24
P24
P24
P24

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|-------------|---------|--------|--|----------|--------------------|--|--------------------------------|
| Permit/Claim | BRAU 30 | | | To test for gold-bearing iron formation at an elevation of approximately 250m above sea level (34m below surface). | | | Date Started: July 27, 1992 Date Completed: July 27, 1992 Logged by: S. Lear Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 10 Casing Length: 3.05 BW | |
| Location: | Aiomon West | | | | | | | |
| Grid Northing: | 5135.40 | metres | | | | | | |
| Grid Easting: | 5600.10 | metres | | | | | | |
| Ground Elevation: | 284.17 | metres | | | | | | |
| Collar Height: | 0.40 | metres | | | | | | |
| Hole - Azimuth: | 351 | degrees | | | | | | |
| - Inclination: | -45 | degrees | | | | | | |
| - Length: | 54.25 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 25.91 | | -44.0 | 1 | GOCC | Gold Occurrence | 00857.4 | 005-007; 010; 012 |
| Rotodip | 50.29 | | -44.0 | 2 | PYRT | Pyrite | 00859.4 | 001-004; 008-009; 011; 013-014 |
| | | | | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| 92T035 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 4 | | |
|--------|-------|---|---|------|------|-----|------|------|------|------|--------|----------|------|--|
| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | | |
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 33.43 | 46.36 | 1g | Pyrite and pyrrhotite as stringers and fracture fill. Rare arsenopyrite as blebs and fine trains associated with pyrite/pyrrhotite. One occurrence of visible gold. Interbedded 1a, 2c, 3c over lower 3.5m. Possible tuff unit as noted below. | | | | | | | | | | | |
| 33.43 | 35.40 | 2q | 100% 2c. | 0 | trc | 0 | 0.5 | trc | 2 | 3 | 8 | 2T035004 | 0.79 | |
| 33.43 | 33.62 | 3c | Light pink quartz-carbonate (dolomitic) veins, 0.5-1.5cm wide at 30 degrees to core axis. | | | | | | | | | | | |
| 33.43 | 33.43 | 4f | Contact at 50 degrees to core axis. | | | | | | | | | | | |
| 35.40 | 36.00 | 2q | 100% 2c. | 0 | 1.5 | 0 | 0 | 2 | 10 | 10 | 9 | 2T035005 | 3.57 | |
| 35.40 | 36.00 | 2f | Calcite/iron-carbonate/quartz veins, 1.5-4.0cm wide, oriented at 40 degrees to core axis. | | | | | | | | | | | |
| 36.00 | 37.00 | 2q | 55% 2c, 45% 2c. | 1 | 2 | 0 | trc | 2 | 5 | trc | 7 | 2T035006 | 1.65 | |
| 36.30 | 36.33 | 3c | One occurrence of visible gold consisting of two specks 0.75mm and 1.5mm long within a quartz vein. | | | | | | | | | | | |
| 36.50 | 36.50 | 3f | Banding to core axis 70 degrees. | | | | | | | | | | | |
| 36.70 | 36.80 | 3f | Cross-cutting quartz-carbonate veins at 70 and 40 degrees to core axis in opposing directions. Angle of intersection is 90 degrees. | | | | | | | | | | | |
| 37.00 | 37.60 | 2q | 55% 5, 30% 5b, 15% 2c. | 0 | 0 | 0 | trc | 40 | 5 | 30 | 2 | 2T035007 | 1.06 | |
| 37.00 | 37.29 | 3c | Quartz-chlorite vein, lower contact at 30 degrees to core axis. | | | | | | | | | | | |
| 37.29 | 37.47 | 3c | Carbonate vein, trace chlorite. Lower contact at 50 degrees to core axis. | | | | | | | | | | | |
| 37.60 | 38.55 | 2q | 100% 2c. | 0 | 1 | trc | 0.5 | trc | 2 | 1 | 3 | 2T035008 | 3.27 | |
| 38.55 | 39.40 | 2q | 100% 2c. | 0 | 0.5 | trc | 0.5 | trc | 0 | 0 | 2 | 2T035009 | 1.47 | |
| 39.00 | 39.00 | 3f | Banding to core axis 75 degrees. | | | | | | | | | | | |
| 39.40 | 40.20 | 2q | 65% 2ca, 35% 2c. | 0 | 5 | 0.5 | 3 | 0 | 15 | 0 | 0 | 2T035010 | 0.89 | |
| 40.20 | 41.10 | 2q | 100% 2c. | 0 | trc | 0 | trc | 5 | 15 | 0 | 4 | 2T035011 | 0.51 | |
| 41.10 | 42.50 | 2q | 80% 2c, 20% 2ca | 0 | 0.5 | trc | 0.5 | 3 | 5 | 0 | 2 | 2T035012 | 0.27 | |
| 42.50 | 43.10 | 2q | 70% 1a, 30% 3c. | 0 | trc | 0 | 0 | 2 | 0 | trc | 8 | 2T035013 | 0.79 | |

VISUAL ESTIMATE REPORT

HOLE: 92T035

September 23, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T035001 | 11.21 | 11.81 | 0.60 | 60% 2da, 40% 1a. | 0 | 2 | trc | 0 | 3 | 20 | 0 | 5 | 2.67 |
| 2T035002 | 19.82 | 20.90 | 1.08 | 80% 2d, 20% 2da. | 0 | 0.5 | 1 | 0 | 3 | 6 | 0 | 8 | 2.84 |
| 2T035003 | 32.83 | 33.43 | 0.60 | 100% 1a. | 0 | 0 | 0 | 0 | trc | 3 | 0 | 2 | <0.03 |
| 2T035004 | 33.43 | 35.40 | 1.97 | 100% 2c. | 0 | trc | 0 | 0.5 | trc | 2 | 3 | 8 | 0.79 |
| 2T035005 | 35.40 | 36.00 | 0.60 | 100% 2c. | 0 | 1.5 | 0 | 0 | 2 | 10 | 10 | 9 | 3.57 |
| 2T035006 | 36.00 | 37.00 | 1.00 | 55% 2c, 45% 2c. | 1 | 2 | 0 | trc | 2 | 5 | trc | 7 | 1.65 |
| 2T035007 | 37.00 | 37.60 | 0.60 | 55% 5, 30% 5b, 15% 2c. | 0 | 0 | 0 | trc | 40 | 5 | 30 | 2 | 1.06 |
| 2T035008 | 37.60 | 38.55 | 0.95 | 100% 2c. | 0 | 1 | trc | 0.5 | trc | 2 | 1 | 3 | 3.27 |
| 2T035009 | 38.55 | 39.40 | 0.85 | 100% 2c. | 0 | 0.5 | trc | 0.5 | trc | 0 | 0 | 2 | 1.47 |
| 2T035010 | 39.40 | 40.20 | 0.80 | 65% 2ca, 35% 2c. | 0 | 5 | 0.5 | 3 | 0 | 15 | 0 | 0 | 0.89 |
| 2T035011 | 40.20 | 41.10 | 0.90 | 100% 2c. | 0 | trc | 0 | trc | 5 | 15 | 0 | 4 | 0.51 |
| 2T035012 | 41.10 | 42.50 | 1.40 | 80% 2c, 20% 2ca | 0 | 0.5 | trc | 0.5 | 3 | 5 | 0 | 2 | 0.27 |
| 2T035013 | 42.50 | 43.10 | 0.60 | 70% 1a, 30% 3c. | 0 | trc | 0 | 0 | 2 | 0 | trc | 8 | 0.79 |
| 2T035014 | 45.32 | 46.36 | 1.04 | 100% 2c. | 0 | 1 | 0 | 0.5 | 20 | 3 | 0 | 2 | 0.44 |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|-------------|---------|--------|--|----------|--------------------|--|--------------------------|
| Permit/Claim | BRAU 38 | | | To test for gold-bearing iron formation at an elevation of approximately 180m above sea level (83m below surface). | | | Date Started: August 3, 1992 Date Completed: August 4, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 23 Casing Length: 1.22m BW | |
| Location: | Hammer Lake | | | | | | | |
| Grid Southing: | 5995.90 | metres | | | | | | |
| Grid Easting: | 7630.20 | metres | | | | | | |
| Ground Elevation: | 264.29 | metres | | | | | | |
| Collar Height: | 0.20 | metres | | | | | | |
| Hole - Azimuth: | 337 | degrees | | | | | | |
| - Inclination: | -55 | degrees | | | | | | |
| - Length: | 118.26 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 55.78 | | -53.0 | 1 | GOCC | Gold Occurrence | 00950.4 | 001-013 |
| Rotodip | 92.66 | | -53.0 | 2 | PYRT | Pyrite | | |
| Rotodip | 114.30 | | -51.0 | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

VISUAL ESTIMATE REPORT

HOLE: 92T039

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|--------|--------|-------|---------------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T039001 | 63.27 | 64.76 | 1.49 | 95% 2c, 5% 5. | 0 | trc | 0 | 0 | 4 | 2 | trc | 3 | <0.03 |
| 2T039002 | 64.76 | 66.25 | 1.49 | 80% 2c, 20% 5. | 0 | trc | 0 | 0 | 17 | 4 | trc | 3 | <0.03 |
| 2T039003 | 66.25 | 67.53 | 1.28 | 2c. | 0 | 0 | 0 | 0 | 2 | 2 | trc | 1 | <0.03 |
| 2T039004 | 67.53 | 68.85 | 1.32 | 90% 2c, 10% 5. | 0 | trc | 0 | 0 | 6 | 4 | trc | 1 | <0.03 |
| 2T039005 | 98.60 | 99.70 | 1.10 | 2c. | 0 | trc | 0 | 0 | 2 | 3 | trc | 1 | 0.07 |
| 2T039006 | 99.70 | 100.72 | 1.02 | 75% 2c, 25% 5ba. | 0 | 1 | 0.5 | 0 | 20 | 5 | 1 | 3 | 3.60 |
| 2T039007 | 100.72 | 102.00 | 1.28 | 85% 2ca, 15% 5b and 5ba. | 0 | 2 | 0 | 0 | 10 | 6 | 4 | 7 | 4.29 |
| 2T039008 | 102.00 | 103.00 | 1.00 | 60% 2ca, 40% 5ba and 5b. | 0 | 3 | 0.5 | 0 | 32 | 5 | 4 | 10 | 3.60 |
| 2T039009 | 103.00 | 103.90 | 0.90 | 40% 3c, 30% 1a, 30% 5ba and 5b. | 0 | 2 | 0.5 | 0 | 25 | 3 | 2 | 4 | 3.02 |
| 2T039010 | 103.90 | 105.16 | 1.26 | 95% 2c, 5% 5b. | 0 | trc | 0 | 0 | 5 | 5 | trc | 6 | 0.31 |
| 2T039011 | 105.16 | 106.17 | 1.01 | 50% 2ca, 50% 5ba. | 1 | 3 | 4 | 0 | 35 | 8 | 7 | 12 | 18.14 |
| 2T039012 | 106.17 | 107.60 | 1.43 | 75% 2dc, 20% 1a, 5% 5b | 0 | trc | 0 | 0 | 1 | 8 | 4 | 5 | 0.07 |
| 2T039013 | 107.60 | 109.20 | 1.60 | 1a | 0 | trc | 0 | 0 | 4 | 3 | trc | 3 | <0.03 |

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: HAMMER LAKE

DDH NO: 921039

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|------------------|-------|-----------------|--------|
| 0 | 1.22 | | | CASING | |
| 1.22 | 5.49 | 19 | 2 | | |
| 5.49 | 8.53 | 93 | 25 | | |
| 8.53 | 11.58 | 97 | 40 | | |
| 11.58 | 14.63 | 95 | 47 | | |
| 14.63 | 17.68 | 98 | 48 | | |
| 17.68 | 20.73 | 94 | 42 | | |
| 20.73 | 23.77 | 98 | 53 | | |
| 23.77 | 26.82 | 98 | 15 | | |
| 26.82 | 29.87 | 99 | 14 | | |
| 29.87 | 32.92 | 97 | 14 | | |
| 32.92 | 35.97 | 98 | 41 | | |
| 35.97 | 39.01 | 88 | 6 | | |
| 39.01 | 42.06 | 100 | 46 | | |
| 42.06 | 45.11 | 100 | 32 | | |
| 45.11 | 48.16 | 96 | 24 | | |
| 48.16 | 51.21 | 98 | 31 | | |
| 51.21 | 53.64 | 98 | 22 | 52.50 - 61.95 | RS/P9 |
| 53.64 | 55.78 | 79 | 0 | | |
| 55.78 | 56.69 | 96 | 26 | | |
| 56.69 | 58.50 | 83 | 10 | | |
| 58.50 | 59.74 | 89 | 0 | | |
| 59.74 | 62.79 | 100 | 51 | 61.95 - 72.11 | RS/P10 |
| 62.79 | 65.84 | 100 | 72 | | |
| 65.84 | 67.06 | 92 | 38 | | |
| 67.06 | 69.49 | 97 | 51 | | |
| 69.49 | 71.93 | 97 | 45 | | |
| 71.93 | 74.07 | 93 | 28 | 72.11 - 82.36 | RS/P11 |
| 74.07 | 75.59 | 99 | 53 | | |
| 75.59 | 78.03 | 84 | 40 | | |
| 78.03 | 79.25 | 86 | 13 | 82.36 - 92.63 | RS/P12 |
| 79.25 | 81.38 | 92 | 25 | | |
| 81.38 | 84.43 | 93 | 62 | | |
| 84.43 | 86.26 | 98 | 37 | | |
| 86.26 | 87.78 | 95 | 76 | | |
| 87.78 | 90.53 | 100 | 55 | | |
| 90.53 | 93.88 | 89 | 37 | 92.63 - 103.75 | RS/P13 |
| 93.88 | 96.62 | 77 | 59 | | |
| 96.62 | 99.97 | 96 | 52 | | |
| 99.97 | 103.00 | 100 | 70 | | |
| 103.00 | 105.16 | 98 98 | 42 | 103.75 - 116.33 | RS/P14 |
| 105.16 | 106.68 | 69 | 53 | | |
| 106.68 | 109.12 | 66 | 30 | | |
| 109.12 | 111.25 | 92 | 29 | | |
| 111.25 | 112.78 | 89 | 15 | | |
| 112.78 | 114.91 | 72 | 16 | | |
| 114.91 | 117.35 | 62 | 11 | | |
| 117.35 | 118.26 | 77 | 22 | | |
| | 118.26 | C.O.H. | | | |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|-------------|---------|--------|--|----------|--------------------|--|--------------------------|
| Permit/Claim | BRAU 38 | | | To test for gold-bearing iron formation at an elevation of approximately 200m above sea level (88m below surface). | | | Date Started: August 1, 1992 Date Completed: August 2, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 24 Casing Length: 3.05m BW | |
| Location: | Hammer Lake | | | | | | | |
| Grid Southing: | 5996.00 | metres | | | | | | |
| Grid Easting: | 7515.00 | metres | | | | | | |
| Ground Elevation: | 288.02 | metres | | | | | | |
| Collar Height: | 0.10 | metres | | | | | | |
| Hole - Azimuth: | 337 | degrees | | | | | | |
| - Inclination: | -55 | degrees | | | | | | |
| - Length: | 127.41 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 28.96 | | -53.0 | 1 | GOCC | Gold Occurrence | 00950.4 | 001-009 |
| Rotodip | 56.39 | | -53.0 | 2 | PYRT | Pyrite | | |
| Rotodip | 86.87 | | -51.0 | 3 | ASP | Arsenopyrite | | |
| Rotodip | 123.44 | | -52.0 | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

| 92T040 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 6 | |
|--------|--------|---|------|------|-----|------|------|------|------|-----|-----------|--------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 121.05 | 125.30 | 2g | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 02T040009 | 0.07 | |
| 121.05 | 121.95 | 3q | | | | | | | | | | | |
| 121.05 | 121.05 | 4f | | | | | | | | | | | |
| 125.30 | 127.41 | 2h | | | | | | | | | | | |
| 125.30 | 127.41 | 2g | | | | | | | | | | | |
| 127.41 | 127.41 | 1c | | | | | | | | | | | |

100% 3a.

3a.

Contact at 70 degrees to core axis.

Greywacke (unit 1a)

95% 1a, and 5% 5 and 5b.

End of Hole.

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: Hammer

DDH NO: 92J040

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|--|--------|
| 3.05 | 5.29 | 111 | 22 | Broken core and Fe stain | |
| 5.29 | 8.53 | 90 | 43 | Fe stain | |
| 8.53 | 11.58 | 98 | 63 | | |
| 11.58 | 14.63 | 100 | 87 | | |
| 14.63 | 17.63 | 92 | 52 | Broken core and Fe stain | |
| 17.63 | 20.73 | 100 | 94 | | |
| 20.73 | 23.77 | 100 | 75 | | |
| 23.77 | 26.82 | 100 | 70 | | |
| 26.82 | 29.87 | 90 | 38 | | |
| 29.87 | 32.92 | 100 | 92 | | |
| 32.92 | 35.97 | 98 | 66 | | |
| 35.97 | 39.01 | 100 | 50 | | |
| 39.01 | 42.06 | 100 | 69 | | |
| 42.06 | 44.50 | 100 | 66 | | |
| 44.50 | 47.35 | 100 | 95 | | |
| 47.35 | 48.16 | 98 | 86 | | |
| 48.16 | 51.21 | 100 | 94 | | |
| 51.21 | 54.25 | 100 | 61 | | |
| 54.25 | 57.30 | 100 | 60 | 88.71 - 98.60 | RS-P8 |
| 57.30 | 60.35 | 100 | 96 | 98.60 - 109.12 | RS-P7 |
| 60.35 | 63.40 | 98 | 96 | 109.12 - 120.09 | RS-P5 |
| 63.40 | 66.45 | 100 | 72 | 120.09 - 127.41 | RS-P6 |
| 66.45 | 69.49 | 102 | 90 | | |
| 69.49 | 74.93 | 100 | 75 | | |
| 74.93 | 77.98 | 100 | 61 | | |
| 77.98 | 78.03 | 100 | 69 | | |
| 78.03 | 79.25 | 62 | 62 | | |
| 79.25 | 81.69 | 96 | 86 | | |
| 81.69 | 84.73 | 100 | 62 | | |
| 84.73 | 87.78 | 100 | 89 | | |
| 87.78 | 90.83 | 89 | 25 | | |
| 90.83 | 93.88 | 100 | 59 | | |
| 93.88 | 95.71 | 98 | 62 | | |
| 95.71 | 96.93 | 100 | 65 | | |
| 96.93 | 99.06 | 80 | 18 | Core broken with rubble, graphite + shales | |
| 99.06 | 99.97 | 77 | 20 | | |
| 99.97 | 103.02 | 95 | 59 | | |
| 103.02 | 106.07 | 100 | 89 | | |
| 106.07 | 109.12 | 92 | 62 | BFZ | |
| 109.12 | 112.17 | 100 | 98 | | |
| 112.17 | 114.91 | 89 | 95 | | |
| 114.91 | 117.96 | 103 | 98 | | |
| 117.96 | 121.31 | 100 | 66 | | |
| 121.31 | 122.21 | 100 | 84 | | |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|-------------|---------|--------|--|----------|--------------------|--|--------------------------|
| Permit/Claim | BRAU 38 | | | To test for gold-bearing iron formation at an elevation of approximately 250m above sea level (37m below surface). | | | Date Started: August 4, 1992 Date Completed: August 4, 1992 Logged by: P. Pacor Core Size: BQ Contractor: J.T. Thomas Core Storage: Boot Lake Boxes of Core: 11 Casing Length: 4.57m BW | |
| Location: | Hammer Lake | | | | | | | |
| Grid Southing: | 6064.00 | metres | | | | | | |
| Grid Easting: | 7380.00 | metres | | | | | | |
| Ground Elevation: | 287.33 | metres | | | | | | |
| Collar Height: | 0.45 | metres | | | | | | |
| Hole - Azimuth: | 337 | degrees | | | | | | |
| - Inclination: | -45 | degrees | | | | | | |
| - Length: | 58.52 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 25.91 | | -45.0 | 1 | GOCC | Gold Occurrence | 00950.4 | 001-013 |
| Rotodip | 54.56 | | -44.0 | 2 | PYRT | Pyrite | | |
| | | | | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

VISUAL ESTIMATE REPORT

HOLE: 92T041

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|------------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T041001 | 32.70 | 33.30 | 0.60 | 90% 2c, 10% 5. | 0 | trc | 0 | 0 | 8 | 8 | trc | 3 | 0.14 |
| 2T041002 | 33.30 | 34.23 | 0.93 | 75% 2c, 25% 5ba and 5. | 0 | 1 | 0.5 | 0 | 20 | 8 | 0.5 | 4 | 0.14 |
| 2T041003 | 34.23 | 35.00 | 0.77 | 50% 3c, 25% 2c, 25% 5. | 0 | trc | 0 | 0 | 20 | 5 | 0 | 8 | 0.62 |
| 2T041004 | 35.00 | 36.00 | 1.00 | 95% 2c, 5% 5. | 0 | trc | 0 | 0 | 5 | 2 | 0 | 3 | 0.51 |
| 2T041005 | 36.00 | 37.00 | 1.00 | 2c. | 0 | trc | 0 | 0 | 2 | 1 | 0 | 1 | <0.03 |
| 2T041006 | 37.00 | 38.00 | 1.00 | 90% 2c, 10% 5. | 0 | trc | 0 | 0 | 8 | 3 | 0 | 3 | <0.03 |
| 2T041007 | 38.00 | 39.00 | 1.00 | 70% 2ca, 30% 5ba. | 1 | 2 | 2 | 0 | 23 | 6 | 2 | 3 | 6.24 |
| 2T041008 | 39.00 | 40.00 | 1.00 | 90% 2c, 10% 5. | 0 | trc | 0 | 0 | 10 | 2 | trc | 1 | <0.03 |
| 2T041009 | 46.63 | 47.60 | 0.97 | 85% 2c, 15% 5. | 0 | trc | 0 | 0 | 13 | 3 | trc | 3 | 0.10 |
| 2T041010 | 47.60 | 48.83 | 1.23 | 80% 2c, 20% 5ba and 5. | 1 | 2 | 1 | 0 | 15 | 5 | 1 | 3 | 3.02 |
| 2T041011 | 48.83 | 50.10 | 1.27 | 75% 2ca, 25% 5ba. | 0 | 2 | 1 | 0 | 20 | 6 | 1 | 3 | 6.72 |
| 2T041012 | 50.10 | 51.00 | 0.90 | 95% 2c, 5% 5. | 0 | 0 | 0 | 0 | 5 | 2 | trc | 1 | <0.03 |
| 2T041013 | 51.00 | 52.40 | 1.40 | 85% 2c, 15% 5ba. | 0 | 0.5 | 0.5 | 0 | 12 | 5 | trc | 5 | 1.78 |

BACK RIVER JOINT VENTURE

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: HAMMER LAKE

DDH NO: 921041

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|----------------|-------|---------------|--------|
| 0 | 4.57 | 150 | | CASING | |
| 4.57 | 5.49 | 150 | 124 | 4.57 - 14.63 | RS/P16 |
| 5.49 | 8.53 | 98 | 71 | | |
| 8.53 | 11.58 | 95 | 45 | | |
| 11.58 | 14.63 | 97 | 61 | | |
| 14.63 | 17.68 | 94 | 58 | 14.63 - 25.23 | RS/P17 |
| 17.68 | 20.73 | 95 | 55 | | |
| 20.73 | 23.77 | 98 | 50 | | |
| 23.77 | 26.92 | 97 | 69 | 25.23 - 35.68 | RS/P18 |
| 26.92 | 29.87 | 99 | 74 | | |
| 29.87 | 32.92 | 96 | 44 | | |
| 32.92 | 35.97 | 99 | 72 | | |
| 35.97 | 39.01 | 100 | 91 | 35.68 - 46.56 | RS/P19 |
| 39.01 | 42.06 | 97 | 60 | | |
| 42.06 | 45.11 | 99 | 79 | | |
| 45.11 | 48.16 | 100 | 72 | 46.56 - 57.36 | RS/P20 |
| 48.16 | 51.21 | 96 | 79 | | |
| 51.21 | 53.95 | 97 | 51 | | |
| 53.95 | 57.30 | 88 | 43 | | |
| 57.30 | 58.52 | 118 | 22 | | |
| | 58.52 | E.O.H. | | | |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|----------------------|-------------|---------|--------|--|----------|--------------------|---------------------|--------------------------|
| Permit/Claim | BRAU 38 | | | To test for gold-bearing iron formation at an elevation of approximately 260m above sea level (46m below surface). | | | Date Started: | August 5, 1992 |
| Location: | Hammer Lake | | | | | | Date Completed: | August 5, 1992 |
| Grid Southing: | 6065.70 | metres | | | | | Logged by: | P. Pacor |
| Grid Easting: | 7259.80 | metres | | | | | Core Size: | BQ |
| Ground Elevation: | 286.15 | metres | | | | | Contractor: | J.T. Thomas |
| Collar Height: | 0.40 | metres | | | | | Core Storage: | Boot Lake |
| Hole - Azimuth: | 337 | degrees | | | | | Boxes of Core: | 18 |
| - Inclination: | -45 | degrees | | Casing Length: | 4.57m | | | |
| - Length: | 96.93 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 25.91 | | -44.0 | 1 | GOCC | Gold Occurrence | 00950.4 | 001-006 |
| Rotodip | 56.37 | | -44.0 | 2 | PYRT | Pyrite | | |
| Rotodip | 83.82 | | -43.0 | 3 | ASP | Arsenopyrite | | |
| | | | | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| | | | | | | | | |

92T042

BACK RIVER JOINT VENTURE - GEOLOGICAL LOG

Page 8

| METRES | | CODE | DESCRIPTION | | | | | | | | ASSAYS | | |
|--------|-------|------|---|------|------|-----|------|------|------|------|--------|----------|------|
| FROM | TO | | | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t |
| 86.95 | 89.90 | 3c | 95% 1a, 5% 2da. | | | | | | | | | | |
| 89.90 | 92.00 | 3c | 80% 1a, 20% 3c. | | | | | | | | | | |
| 92.00 | 93.28 | 3q | 55% 2ca, 45% 1a. | | | | | | | | | | |
| 93.28 | 96.93 | 2n | Greywacke (unit 1a) | | | | | | | | | | |
| 93.28 | 96.93 | 2g | 85% 1a, 10% 5 and 5% 3a. 1a is massive to well bedded with 3a. | | | | | | | | | | |
| 93.28 | 93.30 | 3f | Contact marked by a 2cm wide graphitic zone. | | | | | | | | | | |
| 96.80 | 96.80 | 3f | Bedding to core axis 70 degrees. | | | | | | | | | | |
| 96.93 | 96.93 | 1c | End of Hole. | | | | | | | | | | |
| | | | | 0 | 3 | 0 | 2 | 2 | 6 | 0 | 2 | 2T042006 | 0.27 |

VISUAL ESTIMATE REPORT

HOLE: 92T042

September 22, 1992

PAGE: 1

| SAMPLE | FROM | TO | WIDTH | LITHOLOGY | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | Au g/t |
|----------|-------|-------|-------|------------------|------|------|-----|------|------|------|------|-----|--------|
| 2T042001 | 56.50 | 57.15 | 0.65 | 75% 2c, 25% 5. | 0 | 1 | 0 | 0 | 18 | 10 | 0.5 | 3 | 0.03 |
| 2T042002 | 57.15 | 57.80 | 0.65 | 2c. | 0 | trc | trc | 0 | 3 | 2 | 0 | 2 | <0.03 |
| 2T042003 | 57.80 | 59.00 | 1.20 | 65% 5, 35% 2c. | 0 | trc | trc | 0 | 60 | 8 | trc | 1 | <0.03 |
| 2T042004 | 74.00 | 75.12 | 1.12 | 60% 5, 40% 2c. | 0 | trc | trc | 0 | 55 | 8 | 0 | 1 | 0.10 |
| 2T042005 | 79.40 | 80.90 | 1.50 | 70% 2c, 30% 5. | 0 | 0.5 | trc | 0 | 25 | 5 | trc | 2 | 5.28 |
| 2T042006 | 92.00 | 93.28 | 1.28 | 55% 2ca, 45% 1a. | 0 | 3 | 0 | 2 | 2 | 6 | 0 | 2 | 0.27 |

BACK RIVER JOINT VENTURE

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: HAMMER LAKE

DDH NO: 92T042

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|---------------|--------|
| 0 | 4.57 | | | CASING | |
| 4.57 | 5.49 | 125 | 77 | | |
| 5.49 | 8.53 | 86 | 34 | | |
| 8.53 | 10.06 | 115 | 73 | | |
| 10.06 | 11.58 | 86 | 53 | | |
| 11.58 | 14.63 | 99 | 59 | | |
| 14.63 | 17.68 | 100 | 82 | | |
| 17.68 | 20.73 | 96 | 63 | | |
| 20.73 | 23.77 | 102 | 66 | | |
| 23.77 | 26.82 | 100 | 86 | | |
| 26.82 | 29.87 | 100 | 75 | | |
| 29.87 | 32.92 | 102 | 75 | 31.11 - 44.92 | RS-P24 |
| 32.92 | 35.97 | 99 | 73 | | |
| 35.97 | 39.01 | 96 | 58 | | |
| 39.01 | 42.06 | 94 | 61 | | |
| 42.06 | 45.11 | 100 | 90 | 44.93 - 52.66 | RS-P25 |
| 45.11 | 48.16 | 98 | 68 | | |
| 48.16 | 51.21 | 99 | 84 | | |
| 51.21 | 54.25 | 100 | 72 | 52.66 - 63.66 | R6-P1 |
| 54.25 | 57.30 | 100 | 62 | | |
| 57.30 | 60.35 | 100 | 98 | | |
| 60.35 | 63.40 | 98 | 96 | 63.66 - 74.56 | R6-P2 |
| 63.40 | 66.45 | 103 | 96 | | |
| 66.45 | 69.49 | 94 | 67 | 74.56 - 85.92 | R6-P3 |
| 69.49 | 72.54 | 100 | 68 | | |
| 72.54 | 75.59 | 100 | 85 | | |
| 75.59 | 78.64 | 100 | 85 | | |
| 78.64 | 81.69 | 92 | 86 | | |
| 81.69 | 84.73 | 100 | 72 | | |
| 84.73 | 87.78 | 100 | 66 | | |
| 87.78 | 90.83 | 100 | 96 | | |
| 90.83 | 93.88 | 102 | 66 | | |
| 93.88 | 96.93 | 100 | 74 | | |
| 96.93 | | 80% | | | |

| LOCATION INFORMATION | | | | PURPOSE | | | GENERAL INFORMATION | |
|---|-------------|---------|--------|---|----------|--------------------|--------------------------------|--------------------------|
| Permit/Claim | BRAU 38 | | | To test for gold-bearing iron formation at an elevation of approximately 100m above sea level (175m below surface). | | | Date Started: August 5, 1992 | |
| Location: | Hammer Lake | | | | | | Date Completed: August 8, 1992 | |
| Grid Southing: | 6076.70 | metres | | | | | Logged by: P. Pacor | |
| Grid Easting: | 7580.50 | metres | | | | | Core Size: BQ | |
| Ground Elevation: | 272.98 | metres | | | | | Contractor: J.T. Thomas | |
| Collar Height: | 0.15 | metres | | | | | Core Storage: Boot Lake | |
| Hole - Azimuth: | 337 | degrees | | Boxes of Core: 29 | | | | |
| - Inclination: | -60 | degrees | | Casing Length: 1.52m | | | | |
| - Length: | 145.69 | metres | | | | | | |
| ORIENTATION TEST | | | | COLUMNS | | | SAMPLE INFORMATION | |
| METHOD | DEPTH | AZIMUTH | INCLIN | COL.# | NAME | DEFINITION | LAB REPORT # | SAMPLE NUMBERS COLLECTED |
| Rotodip | 28.96 | | -59.0 | 1 | GOCC | Gold Occurrence | | No samples taken. |
| Rotodip | 56.39 | | -58.0 | 2 | PYRT | Pyrite | | |
| Rotodip | 86.87 | | -58.0 | 3 | ASP | Arsenopyrite | | |
| Rotodip | 117.34 | | -57.0 | 4 | PYRH | Pyrrhotite | | |
| | | | | 5 | VQTZ | Vein Quartz | | |
| | | | | 6 | CLRT | Chlorite | | |
| | | | | 7 | CBNT | Carbonate | | |
| | | | | 8 | VIN | Vein Intensity | | |
| | | | | 9 | SAMPLE # | | | |
| | | | | 10 | g/t | gold content by FA | | |
| REMARKS | | | | | | | | |
| Hole froze in at 145.69m and abandoned. | | | | | | | | |

| 921043 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 5 | |
|--------|--------|---|------|------|-----|------|------|------|------|-----|----------|--------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | GOCC | PYRT | ASP | PYRH | VQTZ | CLRT | CBNT | VIN | SAMPLE # | g/t | |
| 88.80 | 88.80 | 3f | | | | | | | | | | | |
| 94.80 | 100.30 | 2n | | | | | | | | | | | |
| 94.80 | 100.30 | 2g | | | | | | | | | | | |
| 94.80 | 94.80 | 3f | | | | | | | | | | | |
| 97.80 | 98.10 | 3f | | | | | | | | | | | |
| 100.30 | 104.10 | 2n | | | | | | | | | | | |
| 100.30 | 104.10 | 2g | | | | | | | | | | | |
| 100.30 | 101.15 | 3c | | | | | | | | | | | |
| 100.30 | 100.30 | 4f | | | | | | | | | | | |
| 101.15 | 101.40 | 3c | | | | | | | | | | | |
| 101.40 | 102.90 | 3c | | | | | | | | | | | |
| 101.40 | 101.40 | 4f | | | | | | | | | | | |
| 102.90 | 103.30 | 3c | | | | | | | | | | | |
| 102.90 | 102.90 | 4f | | | | | | | | | | | |
| 103.30 | 104.10 | 3c | | | | | | | | | | | |
| 104.10 | 127.00 | 2n | | | | | | | | | | | |
| 104.10 | 127.00 | 2g | | | | | | | | | | | |

Contact gradational over 20cm.

Greywacke (unit 1a), phyllitic mudstone (unit 3a)
80% 1a and 20% 3a.

Interbedded 1a and 3a. Mudstone sections of core are broken with graphite, slickensides and minor gouge on most bedding and foliation surfaces.

Contact at 25 degrees to core axis. Marked by a 5cm wide graphite healed breccia zone.

Graphite, slickensides and minor gouge oriented parallel to core axis.

Felsic dyke (unit 4a)

83% 4a, 14% 1a and 3% 3a.

4a is light grey in colour when dry and medium pinkish grey when dry. It is aphanitic to fine grained, equigranular, moderately to strongly siliceous and weakly to moderately foliated.

Locally up to 5% subrounded to elongate feldspar phenocrysts are present.

Contacts range from sharp to diffuse.

4a.

Contact lost in broken core.

50% 1a, 50% 3a.

4a.

Contact at 15 degrees to core axis.

1a.

Contact at 35 degrees to core axis.

4a.

Greywacke (unit 1a)

75% 1a, 15% 3a and 10% 5 and 5b.

| 92T043 | | BACK RIVER JOINT VENTURE - GEOLOGICAL LOG | | | | | | | | | | Page 7 | |
|--------|--------|---|----------------------------------|------|-----|------|------|------|------|-----|----------|--------|--|
| METRES | | DESCRIPTION | | | | | | | | | | ASSAYS | |
| FROM | TO | CODE | GOC | PYRT | ASP | PYRH | VQTZ | CLRT | CBHT | VIN | SAMPLE # | 9/t | |
| 142.00 | 142.00 | 3f | | | | | | | | | | | |
| 145.69 | 145.69 | 1c | | | | | | | | | | | |
| | | | Bedding to core axis 35 degrees. | | | | | | | | | | |
| | | | End of Hole. | | | | | | | | | | |

BACK RIVER JOINT VENTURE

DRILL CORE GEOTECHNICAL DATA FORM

TARGET: HAMMER

DDH NO: 92T043

| FROM (m) | TO (m) | CORE RE % | RQD % | COMMENTS | PHOTO. |
|----------|--------|-----------|-------|----------|--------|
| 1.52 | 2.74 | 108 | 0 | | |
| 2.74 | 5.49 | 81 | 29 | | |
| 5.49 | 8.53 | 69 | 0 | | |
| 8.53 | 11.58 | 97 | 74 | | |
| 11.58 | 14.33 | 85 | 30 | | |
| 14.33 | 17.68 | 98 | 33 | | |
| 17.68 | 20.73 | 89 | 5 | | |
| 20.73 | 22.25 | 98 | 15 | | |
| 22.25 | 23.77 | 63 | 30 | | |
| 23.77 | 26.82 | 98 | 41 | | |
| 26.82 | 29.87 | 98 | 54 | | |
| 29.87 | 32.92 | 100 | 79 | | |
| 32.92 | 35.97 | 100 | 89 | | |
| 35.97 | 39.01 | 93 | 38 | | |
| 39.01 | 42.06 | 98 | 39 | | |
| 42.06 | 45.11 | 97 | 39 | | |
| 45.11 | 48.16 | 100 | 56 | | |
| 48.16 | 51.21 | 98 | 28 | | |
| 51.21 | 54.25 | 92 | 30 | | |
| 54.25 | 57.30 | 90 | 41 | | |
| 57.30 | 60.35 | 98 | 43 | | |
| 60.35 | 63.40 | 98 | 32 | | |
| 63.40 | 66.45 | 94 | 49 | | |
| 66.45 | 69.49 | 98 | 40 | | |
| 69.49 | 72.54 | 92 | 64 | | |
| 72.54 | 75.59 | 100 | 72 | | |
| 75.59 | 78.64 | 100 | 70 | | |
| 78.64 | 81.69 | 100 | 77 | | |
| 81.69 | 84.73 | 88 | 39 | | |
| 84.73 | 87.78 | 100 | 76 | | |
| 87.78 | 90.83 | 100 | 59 | | |
| 90.83 | 93.88 | 95 | 53 | | |
| 93.88 | 96.93 | 87 | 48 | | |
| 96.93 | 99.97 | 93 | 44 | | |
| 99.97 | 103.02 | 105 | 37 | | |
| 103.02 | 106.07 | 90 | 20 | | |
| 106.07 | 109.12 | 95 | 81 | | |
| 109.12 | 112.17 | 100 | 51 | | |
| 112.17 | 115.21 | 99 | 39 | | |
| 115.21 | 118.26 | 98 | 25 | | |
| 118.26 | 121.31 | 100 | 69 | | |
| 121.31 | 124.36 | 89 | 10 | | |
| 124.36 | 127.41 | 92 | 36 | | |
| 127.41 | 129.54 | 128 | 78 | | |

